

PJM Interconnection, L.L.C. 2750 Monroe Blvd. Audubon, PA 19403

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October 29, 2019

Honorable Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street, N.E., Room 1A Washington, D.C. 20426

Re:

PJM Interconnection, L.L.C., Docket No. ER15-1344-007

(Compliance Filing)

Dear Secretary Bose:

In compliance with the August 30, 2019 Order on Remand issued by the Federal Energy Regulatory Commission ("Commission" or "FERC") in the captioned matter,¹ PJM hereby submits via eTariff revisions to its Open Access Transmission Tariff, Schedule 12-Appendix A ("Tariff" or "Schedule 12") for 44 enhancements and expansions included in the regional transmission expansion plan ("RTEP") solely addressing individual Transmission Owner Form No. 715 planning criteria ("Form 715 Projects") whose cost responsibility assignment changed as a result of the August 30 Order on Remand.²

As described in more detail below, the revised cost allocations reflect the Commission's rejection of Tariff, Schedule 12, section (b)(xv), which assigned 100 percent of cost responsibility for Form No. 715 Projects, and the PJM Transmission Owners' September 27, 2019 compliance filing proposing to remove section (b)(xv) and replace it with "Reserved." Consistent with the

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¹ PJM Interconnection, L.L.C., 168 FERC ¶ 61,133 (Aug. 30, 2019) ("August 30 Order on Remand").

² Order on Remand at P 2.

³ Appalachian Power Co., Tariff, Schedule 12 Compliance Filing, Docket No. ER15-1387-006 at 2 (Sept. 27, 2019) ("September 27 Filing").

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Order on Remand, the PJM Transmission Owners requested that such revision be made effective

on May 25, 2015.⁴

I. DESCRIPTION OF FILING

In accordance with the Commission's directives in the August 30 Order on Remand, PJM

is filing changes to cost responsibility assignments for those Form 715 Projects that were allocated

100 percent to the zone of the Transmission Owner who filed the Form 715 criteria pursuant to

Tariff, Schedule 12, section (b)(xv) for the period May 25, 2015 through August 30, 2019.⁵ Thus,

while the cost allocation methodology set forth in Schedule 12, section (b)(xv) for Form No. 715

Projects will no longer apply to such reliability projects, all other Schedule 12 allocation

methodologies applicable to reliability projects will be applied to Form 715 Projects.⁶

It is also noteworthy that while PJM reviewed all 443 enhancements and expansions

addressing Form 715 criteria that were allocated 100 percent to the zone of the Transmission

Owner who filed the Form 715 criteria for the period of May 25, 2015 through August 30, 2019,

PJM is submitting changes to Schedule 12-Appendix A only for 44 enhancements and expansions

whose allocations actually changed as a result of the August 30 Order on Remand. As illustrated

in the table included as Attachment C ("Attachment C Table") to this transmittal letter, the majority

of the 443 Form 715 Projects continue to be allocated 100 percent to a single zone; however, the

allocations are the result of other Schedule 12 reliability allocation methodologies such as:

⁴ September 27 Filing at 3.

⁵ August 30 Order on Remand at P 4.

⁶ See Tariff, Schedule 12, sections (b)(i), (iii), (iv), (vi) and (xvi).

⁷ The 443 Form 715 Projects include projects approved prior to May 25, 2015 whose allocations were subject to the Commission's December 9, 2016 order wherein the Commission directed PJM to submit a compliance filing assigning future cost responsibility for Form 715 Projects 100 percent to the zone of the Transmission Owner filing the Form

715 criteria. See PJM Interconnection, L.L.C., 157 FERC ¶ 61,192 (Dec. 9, 2016); see also PJM Interconnection,

L.L.C., Compliance Filing, Docket No. ER15-1387-002 (Jan. 9, 2017).

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Regional Facilities needed for reliability and allocated based on the hybrid cost allocation

methodology; (ii) Lower Voltage Facilities needed for reliability costing \$5 million or greater and

requiring analysis using solution-based distribution factor ("DFAX") where only a single zone

shows benefits, 8 (iii) Lower Voltage Facilities needed for reliability costing less than \$5 million, 9

and (iv) solutions for reliability violations on facilities operating below 200 kV that are exempted

from PJM's competitive proposal window process. 10

The revised Tariff sections containing reallocations are reflected in redline and clean

format in Attachments A and B, respectively, to this transmittal letter. 11 Additionally, in the

Attachment C Table, PJM identifies which reliability allocation methodology is applied to each

enhancement or expansion in place of the Form 715 cost allocation methodology and the initial

estimated costs of each upgrade. Finally, PJM includes as Attachment D a chart detailing the

history of the Schedule 12-Appendix A tariff records for the Commission's convenience.

A. Assignments of Cost Responsibility for Regional Facilities

PJM amends Schedule 12-Appendix A to the Tariff to include the cost responsibility

assignment for 11 transmission enhancements and expansions that will operate at or above

500 kV. 12 The cost responsibility assignment for the Regional Facilities is based on the hybrid

⁸ Tariff, Schedule 12, section (b)(iii).

⁹ *Id.*, section (b)(vi).

¹⁰ *Id.*, section (b)(xvi).

¹¹ The revised Tariff sections do not include any proposed rates or charges for recovery of any system upgrade costs. In accordance with Tariff, Schedule 12, recovery of the costs of such facilities that the RTEP requires Transmission

Owners to construct, own and/or finance is governed by the Transmission Owners' established rates.

¹² The Regional Facilities allocated pursuant to Tariff, Schedule 12, section (b)(i) include b2582, b2665, b2758, b2759, b2928, b2960, b2960.1, b2960.2, b3019, b3020, b3021. These Regional Facilities are also listed in the Attachment C

Table included with this filing.

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cost allocation methodology approved by the Commission in its March 22, 2013 Order. ¹³ Pursuant

to this hybrid methodology, 50 percent of the costs of a Regional Facility are allocated on a region-

wide, postage stamp basis while the other 50 percent are allocated to specifically-identified

beneficiaries.

The region-wide postage stamp allocations for each Transmission Owner zone are based

on its annual load-ratio share using the applicable zonal loads at the time of each Transmission

Owner's annual peak load from the 12-month period ending October 31 of the year preceding the

year for which the annual cost responsibility allocation is determined. Similarly, the cost

responsibility assignments for the new Regional Facilities to the owners of merchant transmission

facilities with Firm Transmission Withdrawal Rights are based on the merchant transmission

facilities' annual peak load (not to exceed actual Firm Transmission Withdrawal Rights set forth

in the respective Interconnection service Agreements) from the 12-month period ending

October 31 of the year preceding the year for which the annual cost responsibility allocation is

determined. The Regional Facilities submitted in this filing are reliability projects; therefore, the

second 50 percent of the costs of the facilities are allocated using the "solution-based" DFAX

methodology set forth in Tariff, Schedule 12, section (b)(iii). This DFAX methodology evaluates

the projected relative use on the new facility by the load of each transmission zone or merchant

transmission facility and allocates costs based on such usage.

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¹³ PJM Interconnection, L.L.C., et al., 142 FERC ¶ 61,214 at P 411 (Mar. 22, 2013) ("March 22 Order").

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Assignment of Cost Responsibility for Lower Voltage Facilities Needed for В.

Reliability

Cost Responsibility Assignments that Address Transmission Enhancements 1.

Costing \$5 Million or Greater and Requiring DFAX Analysis

Consistent with the Tariff, Schedule 12, PJM submits amendments to the Tariff, Schedule

12-Appendix A to include the cost responsibility assignments for transmission enhancements and

expansions that are Lower Voltage Facilities. 14 Of the 184 Form 715 Projects allocated as Lower

Voltage Facilities, 33 enhancements and expansions are included in this filing as Lower Voltage

Facilities for which the DFAX analysis described in the Tariff, Schedule 12, section (b)(iii) was

applied and required revisions to the filed allocations.¹⁵

Five Lower Voltage Facilities¹⁶ and one Regional Facility¹⁷ required the creation of

additional sub identification numbers ("sub IDs") to accommodate the Commission's August 30

Order on Remand. The additional sub IDs represent distinct transmission segments of the original

baseline identification number and allow each segment to have a unique cost responsibility

assignment.¹⁸

¹⁴ Lower Voltage Facilities are defined as not Regional Facilities or Necessary Lower Voltage Facilities as defined in

Schedule 12, section (b)(1). See Tariff, Schedule 12, section (b)(ii).

¹⁵ The Lower Voltage Facilities allocated pursuant to Schedule 12, section (b)(iii) include: b2276, b2276.1, b2276.2, b2835, b2835.1, b2835.2, b2835.3, b2836, b2836.1, b2836.2, b2836.3, b2836.4, b2837, b2837.1, b2837.2, b2837.3, b2837.4, b2837.5, b2837.6, b2837.7, b2837.8, b2837.9, b2837.10, b2837.11, b2933.31, b2933.32, b2986, b2986.11, b2986.12, b2986.21, b2986.22, b2986.23, b2986.24. These Lower Voltage Facilities are also listed in the Attachment

C Table included with of this filing.

¹⁶ The five Lower Voltage Facilities include: b2835, b2836, b2837, b2933 and b2986.

¹⁷ Regional Facility b2960 includes b2960.1 and b2960.2

(i) 122 enhancements and expansions continued to be allocated 100 percent to the zone of the Transmission Owner consistent with Tariff, Schedule 12, section (b)(vi) for which the good faith initial cost estimate does not equal or exceed \$5 million; and (ii) 126 enhancements or expansions continued to be allocated 100 percent to the zone of the

¹⁸ Additionally, of the 443 enhancements and expansions addressing Form 715 criteria that were reviewed:

Transmission Owner consistent with Tariff, Schedule 12, section (b)(xvi) as solutions for reliability violations on facilities operating at or below 200 kV that were not included in a competitive proposal window. See Attachment C

Table.

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II. CORRESPONDENCE AND COMMUNICATIONS

Correspondence and communications with respect to this filing should be sent to the following persons:

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III. DOCUMENTS ENCLOSED

PJM encloses the following:

- 1. This transmittal letter;
- 2. Attachment A Revised Open Access Transmission Tariff, Schedule 12 (in redlined form);
- 3. Attachment B Revised Open Access Transmission Tariff, Schedule 12 (in clean form);
- 4. Attachment C Table identifying the primary Schedule 12 cost allocation methodologies used to determine revised cost allocations; and
- 5. Chart Detailing the History of Schedule 12 Appendix A Tariff Records.

IV. EFFECTIVE DATE

PJM requests that the Commission accept its revisions as set forth in the August 30 Order on Remand. By making this filing in compliance with the August 30 Order on Remand, PJM understands that it has satisfied any of the Commission's filing requirements that might apply. Should any of the Commission's regulations (including filing regulations) or requirements that may not be addressed be found to apply, PJM respectfully requests waiver of any such regulation or requirement.

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V. SERVICE

PJM has served a copy of this filing on all PJM Members and on the affected state utility

regulatory commissions in the PJM Region by posting this filing electronically. In accordance

with the Commission's regulations, ¹⁹ PJM will post a copy of this filing to the FERC filings section

of its internet site, located at the following link: http://www.pjm.com/documents/ferc-

manuals/ferc-filings.aspx with a specific link to the newly-filed document, and will send an e-mail

on the same date as this filing to all PJM Members and all state utility regulatory commissions in

the PJM Region²⁰ alerting them that this filing has been made by PJM and is available by following

such link. If the document is not immediately available by using the referenced link, the document

will be available through the referenced link within twenty-four hours of the filing. Also, a copy

of this filing will be available on the Commission's eLibrary website located at the following link:

http://www.ferc.gov/docs-filing/elibrary.asp in accordance with the Commission's regulations and

Order No. 714.

Craig Glazer

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Respectfully submitted,

By: (

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¹⁹ See 18 C.F.R. sections 35.2(e) and 385.201(f)(3) (2018).

²⁰ PJM already maintains, updates, and regularly uses electronic mailing lists for all PJM Members and affected state

commissions.

CERTIFICATE OF SERVICE

I hereby certify that I have this day served the foregoing document on those parties on the official Service List compiled by the Secretary in these proceedings.

Dated at Audubon, Pennsylvania this 29th day of October, 2019.

/s/ Pauline Foley

Pauline Foley Associate General Counsel PJM Interconnection, L.L.C. 2750 Monroe Blvd. Audubon, PA 19403

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Attachment A

Schedule 12 – Appendix A of the PJM Open Access Transmission Tariff

(Marked / Redline Format)

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of HTP (36.49%) / ECP** overhead line from Edison b2218 - Meadow Rd - Metuchen (63.51%) (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 PSEG (100%)ConEd kV bus by installing a new b2276 (50.82%) / ECP 230 kV bay at Sewaren (49.18%) 230 kV Convert the two 138 kV circuits from Sewaren – PSEG (100%)ConEd Metuchen to 230 kV b2276.1 (50.82%) / ECP circuits including (49.18%) Lafayette and Woodbridge substation Reconfigure the Metuchen PSEG (100%)ConEd 230 kV station to (50.82%) / ECP b2276.2 accommodate the two (49.18%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV breaker 10X with 63kA b2295 PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) Bridgewater Switching Station **Load-Ratio Share Allocation:** AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%) / ConEd (0.57%) / Dayton (2.01%) / DEOK (3.21%) / DL (1.69%) / DPL (2.43%) / Convert the Bergen -Dominion (12.42%) / EKPC Homestead "F" 138 kV (2.15%) / HTP*** (0.20%) / b2436.11 circuit to 345 kV and any JCPL (3.54%) / ME (1.77%) / associated substation NEPTUNE* (0.42%) / PECO upgrades (5.18%) / PENELEC (1.92%) / PEPCO (3.98%) / PPL (5.05%) / PSEG (5.97%) / RE (0.25%) / ECP** (0.20%) **DFAX Allocation:** ConEd (94.04%) / HTP*** (0.51%) / ECP** (5.45%) **Load-Ratio Share Allocation:** AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%) / ConEd (0.57%) / Dayton (2.01%) / DEOK (3.21%) / DL (1.69%) / DPL (2.43%) / Convert the Bergen -Dominion (12.42%) / EKPC North Bergen "E" 138 kV (2.15%) / HTP*** (0.20%) / circuit to 345 kV and any b2436.12 JCPL (3.54%) / ME (1.77%) / associated substation NEPTUNE* (0.42%) / PECO upgrades (5.18%) / PENELEC (1.92%) / PEPCO (3.98%) / PPL (5.05%) / PSEG (5.97%) / RE (0.25%) / ECP** (0.20%) **DFAX Allocation:** ConEd (94.32%) / HTP*** (0.22%) / ECP** (5.46%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required To	ransmission Enhancements A	nnual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.53%) / AEP (15.32%) /
		APS (5.87%) / ATSI (7.76%) /
		BGE (4.18%) / ComEd (12.38%)
		/ ConEd (0.57%) / Dayton
		(2.01%) / DEOK (3.21%) / DL
	Convert the North Bergen	(1.69%) / DPL (2.43%) /
	- Homestead "E" 138 kV	Dominion (12.42%) / EKPC
b2436.1		(2.15%) / HTP*** (0.20%) /
02430.1	associated substation	JCPL (3.54%) / ME (1.77%) /
	upgrades	NEPTUNE* (0.42%) / PECO
	upgrades	(5.18%) / PENELEC (1.92%) /
		PEPCO (3.98%) / PPL (5.05%) /
		PSEG (5.97%) / RE (0.25%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (93.88%) / HTP***
		(0.68%) / ECP** (5.44%)
		Load-Ratio Share Allocation:
	Convert the Homestead -	AEC (1.53%) / AEP (15.32%) /
		APS (5.87%) / ATSI (7.76%) /
		BGE (4.18%) / ComEd (12.38%)
		/ ConEd (0.57%) / Dayton
		(2.01%) / DEOK (3.21%) / DL
		(1.69%) / DPL (2.43%) /
		Dominion (12.42%) / EKPC
	Marion "E" 138 kV circuit	(2.15%) / HTP*** (0.20%) /
b2436.1		JCPL (3.54%) / ME (1.77%) /
	associated substation	NEPTUNE* (0.42%) / PECO
	upgrades	(5.18%) / PENELEC (1.92%) /
		PEPCO (3.98%) / PPL (5.05%) /
		PSEG (5.97%) / RE (0.25%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (92.09%) / HTP***
		(0.44%) / ECP** (5.33%) / PSEG
		(2.06%) / RE (0.08%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tr	ansmission Enhancements A	annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.53%) / AEP (15.32%) /
		APS (5.87%) / ATSI (7.76%) /
		BGE (4.18%) / ComEd (12.38%)
		/ ConEd (0.57%) / Dayton
		(2.01%) / DEOK (3.21%) / DL
		(1.69%) / DPL (2.43%) /
	Convert the Homestead -	Dominion (12.42%) / EKPC
	Marion "F" 138 kV circuit	(2.15%) / HTP*** (0.20%) /
b2436.13	to 345 kV and any	JCPL (3.54%) / ME (1.77%) /
	associated substation	NEPTUNE* (0.42%) / PECO
	upgrades	(5.18%) / PENELEC (1.92%) /
		PEPCO (3.98%) / PPL (5.05%) /
		PSEG (5.97%) / RE (0.25%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (92.45%) / HTP***
		(0.39%) / ECP** (5.35%) / PSEG
		(1.74%) / RE (0.07%)
		Load-Ratio Share Allocation:
		AEC (1.53%) / AEP (15.32%) /
		APS (5.87%) / ATSI (7.76%) /
		BGE (4.18%) / ComEd (12.38%)
		/ ConEd (0.57%) / Dayton
		(2.01%) / DEOK (3.21%) / DL
	Convert the Marion -	(1.69%) / DPL (2.43%) /
	Bayonne "L" 138 kV	Dominion (12.42%) / EKPC
b2436.2	1	(2.15%) / HTP*** (0.20%) /
02430.2	associated substation	JCPL (3.54%) / ME (1.77%) /
	upgrades	NEPTUNE* (0.42%) / PECO
	upgrades	(5.18%) / PENELEC (1.92%) /
		PEPCO (3.98%) / PPL (5.05%) /
		PSEG (5.97%) / RE (0.25%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (85.83%) / HTP***
		(13.21%) / ECP** (0.96%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements	Annual Revenue Requirement Responsible Customer(s))
		Load-Ratio Share Allocation	:
		AEC (1.53%) / AEP (15.32%)	/
		APS (5.87%) / ATSI (7.76%) /	/
		BGE (4.18%) / ComEd (12.38%	6)
		/ ConEd (0.57%) / Dayton	
		(2.01%) / DEOK (3.21%) / DL	_
	Comment the Manier	(1.69%) / DPL (2.43%) /	
	Convert the Marion -	Dominion (12.42%) / EKPC	
b2436.22	Bayonne "C" 138 kV	(2.15%) / HTP*** (0.20%) /	
02430.22	circuit to 345 kV and any associated substation	JCPL (3.54%) / ME (1.77%) /	′
		NEPTUNE* (0.42%) / PECO	
	upgrades	(5.18%) / PENELEC (1.92%) /	/
		PEPCO (3.98%) / PPL (5.05%)	/
		PSEG (5.97%) / RE (0.25%) /	1
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (85.83%) / HTP***	
		(13.21%) / ECP** (0.96%)	
		Load-Ratio Share Allocation:	:
	Convert the Bayonne - PVSC "I" 138 kV circuit to 345 kV and any	AEC (1.53%) / AEP (15.32%)	/
		APS (5.87%) / ATSI (7.76%) /	/
		BGE (4.18%) / ComEd (12.38%)	(o)
		/ ConEd (0.57%) / Dayton	
		(2.01%) / DEOK (3.21%) / DL	_
		(1.69%) / DPL (2.43%) /	
		Dominion (12.42%) / EKPC	
b2436.31		(2.15%)/H1P**** (0.20%)/	
02430.31	_	JCPL (3.54%) / ME (1.77%) /	1
	associated substation upgrades	NEPTUNE* (0.42%) / PECO	
		(5.18%) / PENELEC (1.92%) /	
		PEPCO (3.98%) / PPL (5.05%)	/
		PSEG (5.97%) / RE (0.25%) /	1
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (86.70%) / HTP***	
		(12.33%) / ECP** (0.97%)	

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	nnual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.53%) / AEP (15.32%) /
		APS (5.87%) / ATSI (7.76%) /
		BGE (4.18%) / ComEd (12.38%)
		/ ConEd (0.57%) / Dayton
		(2.01%) / DEOK (3.21%) / DL
		(1.69%) / DPL (2.43%) /
	Construct a new Bayonne	Dominion (12.42%) / EKPC
b2436.32	- PVSC 345 kV circuit and	(2.15%) / HTP*** (0.20%) /
02430.32	any associated substation	JCPL (3.54%) / ME (1.77%) /
	upgrades	NEPTUNE* (0.42%) / PECO
		(5.18%) / PENELEC (1.92%) /
		PEPCO (3.98%) / PPL (5.05%) /
		PSEG (5.97%) / RE (0.25%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (86.67%) / HTP***
		(12.32%) / ECP** (1.01%)
		Load-Ratio Share Allocation:
		AEC (1.53%) / AEP (15.32%) /
		APS (5.87%) / ATSI (7.76%) /
		BGE (4.18%) / ComEd (12.38%)
		/ ConEd (0.57%) / Dayton
		(2.01%) / DEOK (3.21%) / DL
		(1.69%) / DPL (2.43%) /
	Convert the PVSC - North	Dominion (12.42%) / EKPC
b2436.41	Ave "E" 138 kV circuit to	(2.15%) / HTP*** (0.20%) /
02430.41	345 kV and any associated	JCPL (3.54%) / ME (1.77%) /
	substation upgrades	NEPTUNE* (0.42%) / PECO
		(5.18%) / PENELEC (1.92%) /
		PEPCO (3.98%) / PPL (5.05%) /
		PSEG (5.97%) / RE (0.25%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (86.92%) / HTP***
		(12.36%) / ECP** (0.72%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%) / ConEd (0.57%) / Dayton (2.01%) / DEOK (3.21%) / DL (1.69%) / DPL (2.43%) / Construct a new PVSC -Dominion (12.42%) / EKPC (2.15%) / HTP*** (0.20%) / North Ave 345 kV circuit b2436.42 and any associated JCPL (3.54%) / ME (1.77%) / substation upgrades NEPTUNE* (0.42%) / PECO (5.18%) / PENELEC (1.92%) / PEPCO (3.98%) / PPL (5.05%) / PSEG (5.97%) / RE (0.25%) / ECP** (0.20%) **DFAX Allocation:** ConEd (86.93%) / HTP*** (12.36%) / ECP** (0.71%) Construct a new North ConEd (86.59%) / HTP*** Ave - Airport 345 kV b2436.50 circuit and any associated (12.31%) / ECP** (1.10%) substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (87.35%) / HTP*** b2436.60 to Bayway, convert it to (12.42%) / ECP** (0.23%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (87.43%) / HTP*** b2436.70 (12.43%) / ECP** (0.14%) and any associated substation upgrades

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

R	equired Tran	smission Enhancements A	nnual Revenue Requirement Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.53%) / AEP (15.32%) /
			APS (5.87%) / ATSI (7.76%) /
			BGE (4.18%) / ComEd (12.38%)
			/ ConEd (0.57%) / Dayton
			(2.01%) / DEOK (3.21%) / DL
		D -1	(1.69%) / DPL (2.43%) /
		Relocate the overhead	Dominion (12.42%) / EKPC
		portion of Linden - North Ave "T" 138 kV circuit to	(2.15%) / HTP*** (0.20%) /
	b2436.81		JCPL (3.54%) / ME (1.77%) /
		Bayway, convert it to 345	NEPTUNE* (0.42%) / PECO
		kV, and any associated	(5.18%) / PENELEC (1.92%) /
		substation upgrades	PEPCO (3.98%) / PPL (5.05%) /
			PSEG (5.97%) / RE (0.25%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (22.94%) / HTP***
			(5.10%) / ECP** (0.08%) / PSEG
			(69.17%) / RE (2.71%)
			Load-Ratio Share Allocation:
		Convert the Bayway - Linden "X" 138 kV circuit	AEC (1.53%) / AEP (15.32%) /
			APS (5.87%) / ATSI (7.76%) /
			BGE (4.18%) / ComEd (12.38%)
			/ ConEd (0.57%) / Dayton
			(2.01%) / DEOK (3.21%) / DL
			(1.69%) / DPL (2.43%) /
			Dominion (12.42%) / EKPC
			(2.15%) / HTP*** (0.20%) /
	b2436.82	to 345 kV and any	JCPL (3.54%) / ME (1.77%) /
		associated substation	NEPTUNE* (0.42%) / PECO
		upgrades	(5.18%) / PENELEC (1.92%) /
			PEPCO (3.98%) / PPL (5.05%) /
			PSEG (5.97%) / RE (0.25%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (22.94%) / HTP***
			(5.10%) / ECP** (0.08%) / PSEG
			(69.17%) / RE (2.71%)

^{*}Neptune Regional Transmission System, LLC

**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

equired Tran	smission Enhancements A	nnual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation
		AEC (1.53%) / AEP (15.32%)
		APS (5.87%) / ATSI (7.76%) /
		BGE (4.18%) / ComEd (12.38%)
		/ ConEd (0.57%) / Dayton
		(2.01%) / DEOK (3.21%) / DL
		(1.69%) / DPL (2.43%) /
	Convert the Bayway -	Dominion (12.42%) / EKPC
	Linden "Z" 138 kV circuit	(2.15%) / HTP*** (0.20%) /
b2436.83	to 345 kV and any	JCPL (3.54%) / ME (1.77%) /
	associated substation	NEPTUNE* (0.42%) / PECO
	upgrades	(5.18%) / PENELEC (1.92%)
		PEPCO (3.98%) / PPL (5.05%)
		PSEG (5.97%) / RE (0.25%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (22.94%) / HTP***
		(5.10%) / ECP** (0.08%) / PSE
		(69.17%) / RE (2.71%)
	Relocate Farragut -	Load-Ratio Share Allocation
		AEC (1.53%) / AEP (15.32%)
		APS (5.87%) / ATSI (7.76%) /
		BGE (4.18%) / ComEd (12.38%)
		/ ConEd (0.57%) / Dayton
		(2.01%) / DEOK (3.21%) / DI
		(1.69%) / DPL (2.43%) /
	Hudson "B" and "C" 345	Dominion (12.42%) / EKPC
b2436.90	kV circuits to Marion 345	(2.15%) / HTP*** (0.20%) /
	kV and any associated	JCPL (3.54%) / ME (1.77%) /
	substation upgrades	NEPTUNE* (0.42%) / PECO
		(5.18%) / PENELEC (1.92%)
		PEPCO (3.98%) / PPL (5.05%)
		PSEG (5.97%) / RE (0.25%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (100.00%)
Neptune Re	egional Transmission System,	LLC

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100.00%) the 345 kV at Marion and any associated upgrades New Bergen 345/230 kV ConEd (91.84%) / HTP*** transformer and any b2437.10 (1.16%) / ECP** (3.56%) / PSEG associated substation (3.31%) / RE (0.13%) upgrades New Bergen 345/138 kV transformer #1 and any b2437.11 ConEd (100.00%) associated substation upgrades New Bergen 345/138 kV transformer #2 and any ConEd (81.64%) / HTP*** b2437.12 associated substation (18.36%) upgrades New Bayway 345/138 kV transformer #1 and any b2437.20 ConEd (100.00%) associated substation upgrades New Bayway 345/138 kV transformer #2 and any b2437.21 ConEd (100.00%) associated substation upgrades New Linden 345/230 kV transformer and any ConEd (86.94%) / HTP*** b2437.30 (11.36%) / ECP** (1.70%) associated substation upgrades New Linden 230/138 kV ConEd (15.49%) / HTP*** transformer and any (3.67%) / ECP** (15.51%) / b2437.31 associated substation PSEG (62.86%) / RE (2.47%) upgrades Install two reactors at b2438 PSEG (100.00%) Tosco 230 kV Replace the Tosco 138kV breaker 'CB1/2 (CBT)' b2439 PSEG (100.00%) with 63kA Rebuild Athenia 138 kV to b2474 PSEG (100%) 80kA

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of HTP (36.49%) / ECP** overhead line from Edison b2218 - Meadow Rd - Metuchen (63.51%)(Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 PSEG (100%)ConEd kV bus by installing a new b2276 (66.90%) / ECP 230 kV bay at Sewaren (33.10%)230 kV Convert the two 138 kV circuits from Sewaren -PSEG (100%)ConEd Metuchen to 230 kV b2276.1 (66.90%) / ECP circuits including (33.10%) Lafayette and Woodbridge substation Reconfigure the Metuchen PSEG (100%)ConEd 230 kV station to b2276.2 (66.90%) / ECP accommodate the two (33.10%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Convert the Bergen -Dominion (13.30%) / EKPC Homestead "F" 138 kV (2.14%) / HTP*** (0.20%) / b2436.11 circuit to 345 kV and any JCPL (3.57%) / ME (1.72%) / associated substation NEPTUNE* (0.41%) / PECO upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) **DFAX Allocation:** ConEd (94.04%) / HTP*** (0.51%) / ECP** (5.45%) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Convert the Bergen -Dominion (13.30%) / EKPC North Bergen "E" 138 kV (2.14%) / HTP*** (0.20%) / circuit to 345 kV and any b2436.12 JCPL (3.57%) / ME (1.72%) / associated substation NEPTUNE* (0.41%) / PECO upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) **DFAX Allocation:** ConEd (94.32%) / HTP*** (0.22%) / ECP** (5.46%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	nnual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
	Convert the North Bergen	(1.72%) / DPL (2.53%) /
	- Homestead "E" 138 kV	Dominion (13.30%) / EKPC
b2436.13	circuit to 345 kV and any	(2.14%) / HTP*** (0.20%) /
02430.13	associated substation	JCPL (3.57%) / ME (1.72%) /
	upgrades	NEPTUNE* (0.41%) / PECO
	upgrades	(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (93.88%) / HTP***
		(0.68%) / ECP** (5.44%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) /
	Convert the Homestead -	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC
	Marion "E" 138 kV circuit	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) /
b2436.14	Marion "E" 138 kV circuit to 345 kV and any	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) /
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO
b2436.14	Marion "E" 138 kV circuit to 345 kV and any	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) /
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) /
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) /
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation: ConEd (92.09%) / HTP***
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:

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Required Tran	nsmission Enhancements	Annual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Convert the Homestead -		Dominion (13.30%) / EKPC
	Marion "F" 138 kV circui	t	(2.14%) / HTP*** (0.20%) /
b2436.15	to 345 kV and any		JCPL (3.57%) / ME (1.72%) /
	associated substation		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (92.45%) / HTP***
			(0.39%) / ECP** (5.35%) / PSEG
			(1.74%) / RE (0.07%)
			Load-Ratio Share Allocation:
	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any		AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
			Dominion (13.30%) / EKPC
b2436.21		,	(2.14%) / HTP*** (0.20%) /
02430.21	associated substation		JCPL (3.57%) / ME (1.72%) /
	associated substation upgrades		NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (85.83%) / HTP***
			(13.21%) / ECP** (0.96%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

quiled ITal	smission Enhancements A	nnual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
	Convert the Marion -	(1.72%) / DPL (2.53%) /
	Bayonne "C" 138 kV	Dominion (13.30%) / EKPC
b2436.22	circuit to 345 kV and any	(2.14%) / HTP*** (0.20%) /
02430.22	associated substation	JCPL (3.57%) / ME (1.72%) /
	upgrades	NEPTUNE* (0.41%) / PECO
	upgrades	(4.97%) / PENELEC (1.86%)
		PEPCO (3.85%) / PPL (4.95%)
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (85.83%) / HTP***
		(13.21%) / ECP** (0.96%)
		Load-Ratio Share Allocation
		AEC (1.57%) / AEP (15.18%)
		APS (5.89%) / ATSI (7.59%)
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
	Convert the Bayonne - PVSC "I" 138 kV circuit to 345 kV and any associated substation upgrades	(2.02%) / DEOK (3.15%) / DI
		(1.72%) / DPL (2.53%) /
		Dominion (13.30%) / EKPC
		(2.14%) / HTP*** (0.20%) /
b2436.31		JCPL (3.57%) / ME (1.72%) /
		NEPTUNE* (0.41%) / PECO
		(4.97%) / PENELEC (1.86%)
		PEPCO (3.85%) / PPL (4.95%)
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (86.70%) / HTP***
		(12.33%) / ECP** (0.97%)
	gional Transmission System,	

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	annual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Construct a new Bayonne		Dominion (13.30%) / EKPC
b2436.32	- PVSC 345 kV circuit and		(2.14%) / HTP*** (0.20%) /
02430.32	any associated substation		JCPL (3.57%) / ME (1.72%) /
	upgrades		NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (86.67%) / HTP***
			(12.32%) / ECP** (1.01%)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Convert the PVSC - North		Dominion (13.30%) / EKPC
b2436.41	Ave "E" 138 kV circuit to		(2.14%) / HTP*** (0.20%) /
02430.41	345 kV and any associated		JCPL (3.57%) / ME (1.72%) /
	substation upgrades		NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (86.92%) / HTP***
			(12.36%) / ECP** (0.72%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Construct a new PVSC -Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / North Ave 345 kV circuit b2436.42 and any associated JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO substation upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) **DFAX Allocation:** ConEd (86.93%) / HTP*** (12.36%) / ECP** (0.71%) Construct a new North Ave - Airport 345 kV ConEd (86.59%) / HTP*** b2436.50 (12.31%) / ECP** (1.10%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (87.35%) / HTP*** b2436.60 to Bayway, convert it to (12.42%) / ECP** (0.23%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (87.43%) / HTP*** b2436.70 (12.43%) / ECP** (0.14%) and any associated substation upgrades

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	nnual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
	Relocate the overhead	(1.72%) / DPL (2.53%) /
	portion of Linden - North	Dominion (13.30%) / EKPC
	Ave "T" 138 kV circuit to	(2.14%) / HTP*** (0.20%) /
b2436.81		JCPL (3.57%) / ME (1.72%) /
	Bayway, convert it to 345 kV, and any associated	NEPTUNE* (0.41%) / PECO
	substation upgrades	(4.97%) / PENELEC (1.86%) /
	substation upgrades	PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (22.94%) / HTP***
		(5.10%) / ECP** (0.08%) / PSEG
		(69.17%) / RE (2.71%)
		Load-Ratio Share Allocation:
	Convert the Bayway - Linden "X" 138 kV circuit	AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
		Dominion (13.30%) / EKPC
		(2.14%) / HTP*** (0.20%) /
b2436.82	to 345 kV and any	JCPL (3.57%) / ME (1.72%) /
	associated substation	NEPTUNE* (0.41%) / PECO
	upgrades	(4.97%) / PENELEC (1.86%) /
	10	PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (22.94%) / HTP***
		(5.10%) / ECP** (0.08%) / PSEG
		(69.17%) / RE (2.71%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	nnual Revenue Requiren	nent Responsible Customer(s)
b2436.83	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2436.90	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100.00%) the 345 kV at Marion and any associated upgrades New Bergen 345/230 kV ConEd (91.84%) / HTP*** transformer and any b2437.10 (1.16%) / ECP** (3.56%) / PSEG associated substation (3.31%) / RE (0.13%) upgrades New Bergen 345/138 kV transformer #1 and any b2437.11 ConEd (100.00%) associated substation upgrades New Bergen 345/138 kV ConEd (81.64%) / HTP*** transformer #2 and any b2437.12 associated substation (18.36%)upgrades New Bayway 345/138 kV transformer #1 and any b2437.20 ConEd (100.00%) associated substation upgrades New Bayway 345/138 kV transformer #2 and any b2437.21 ConEd (100.00%) associated substation upgrades New Linden 345/230 kV transformer and any ConEd (86.94%) / HTP*** b2437.30 (11.36%) / ECP** (1.70%) associated substation upgrades New Linden 230/138 kV ConEd (15.49%) / HTP*** transformer and any (3.67%) / ECP** (15.51%) / b2437.31 associated substation PSEG (62.86%) / RE (2.47%) upgrades Install two reactors at b2438 PSEG (100.00%) Tosco 230 kV Replace the Tosco 138kV breaker 'CB1/2 (CBT)' b2439 PSEG (100.00%) with 63kA Rebuild Athenia 138 kV to b2474 PSEG (100%) 80kA

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of HTP (36.49%) / ECP** overhead line from Edison b2218 - Meadow Rd - Metuchen (63.51%)(Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

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^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 PSEG (100%)ConEd kV bus by installing a new b2276 (66.90%) / ECP 230 kV bay at Sewaren (33.10%)230 kV Convert the two 138 kV circuits from Sewaren -PSEG (100%)ConEd Metuchen to 230 kV b2276.1 (66.90%) / ECP circuits including (33.10%) Lafayette and Woodbridge substation Reconfigure the Metuchen PSEG (100%)ConEd 230 kV station to b2276.2 (66.90%) / ECP accommodate the two (33.10%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

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^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Convert the Bergen -Dominion (13.30%) / EKPC Homestead "F" 138 kV (2.14%) / HTP*** (0.20%) / b2436.11 circuit to 345 kV and any JCPL (3.57%) / ME (1.72%) / associated substation NEPTUNE* (0.41%) / PECO upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) **DFAX Allocation:** ConEd (94.04%) / HTP*** (0.51%) / ECP** (5.45%) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Convert the Bergen -Dominion (13.30%) / EKPC North Bergen "E" 138 kV (2.14%) / HTP*** (0.20%) / circuit to 345 kV and any b2436.12 JCPL (3.57%) / ME (1.72%) / associated substation NEPTUNE* (0.41%) / PECO upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) **DFAX Allocation:** ConEd (94.32%) / HTP*** (0.22%) / ECP** (5.46%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	nnual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
b2436.13		AEC (1.57%) / AEP (15.18%) /
	Convert the North Bergen - Homestead "E" 138 kV circuit to 345 kV and any associated substation upgrades	APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
		Dominion (13.30%) / EKPC
		(2.14%) / HTP*** (0.20%) /
02430.13		JCPL (3.57%) / ME (1.72%) /
		NEPTUNE* (0.41%) / PECO
		(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (93.88%) / HTP***
		(0.68%) / ECP** (5.44%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		$/C_{-}$ $\sim \Gamma 1 (0.550/) / D_{-}$
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) /
	Convert the Homestead -	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC
	Marion "E" 138 kV circuit	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) /
b2436.14	Marion "E" 138 kV circuit to 345 kV and any	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) /
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO
b2436.14	Marion "E" 138 kV circuit to 345 kV and any	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) /
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) /
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) /
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation: ConEd (92.09%) / HTP***
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:

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**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements	Annual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
b2436.15	Convert the Homestead - Marion "F" 138 kV circuit to 345 kV and any associated substation upgrades		AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
			Dominion (13.30%) / EKPC
		t	(2.14%) / HTP*** (0.20%) /
			JCPL (3.57%) / ME (1.72%) /
			NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (92.45%) / HTP***
			(0.39%) / ECP** (5.35%) / PSEG
			(1.74%) / RE (0.07%)
	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades		Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
b2436.21			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
			Dominion (13.30%) / EKPC
		,	(2.14%) / HTP*** (0.20%) /
			JCPL (3.57%) / ME (1.72%) /
			NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (85.83%) / HTP***
			(13.21%) / ECP** (0.96%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

quiled ITal	smission Enhancements A	nnual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
	Convert the Marion -	(1.72%) / DPL (2.53%) /
	Bayonne "C" 138 kV	Dominion (13.30%) / EKPC
b2436.22	circuit to 345 kV and any	(2.14%) / HTP*** (0.20%) /
02430.22	associated substation	JCPL (3.57%) / ME (1.72%) /
	upgrades	NEPTUNE* (0.41%) / PECO
	upgrades	(4.97%) / PENELEC (1.86%)
		PEPCO (3.85%) / PPL (4.95%)
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (85.83%) / HTP***
		(13.21%) / ECP** (0.96%)
		Load-Ratio Share Allocation
		AEC (1.57%) / AEP (15.18%)
		APS (5.89%) / ATSI (7.59%)
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DI
	Convert the Bayonne -	(1.72%) / DPL (2.53%) /
		Dominion (13.30%) / EKPC
	PVSC "I" 138 kV circuit	(2.14%) / HTP*** (0.20%) /
b2436.31	to 345 kV and any	JCPL (3.57%) / ME (1.72%) /
	associated substation	NEPTUNE* (0.41%) / PECO
	upgrades	(4.97%) / PENELEC (1.86%)
		PEPCO (3.85%) / PPL (4.95%)
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (86.70%) / HTP***
		(12.33%) / ECP** (0.97%)
	gional Transmission System,	

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	annual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Construct a new Bayonne		Dominion (13.30%) / EKPC
b2436.32	- PVSC 345 kV circuit and		(2.14%) / HTP*** (0.20%) /
02430.32	any associated substation		JCPL (3.57%) / ME (1.72%) /
	upgrades		NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (86.67%) / HTP***
			(12.32%) / ECP** (1.01%)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Convert the PVSC - North		Dominion (13.30%) / EKPC
b2436.41	Ave "E" 138 kV circuit to		(2.14%) / HTP*** (0.20%) /
02430.41	345 kV and any associated		JCPL (3.57%) / ME (1.72%) /
	substation upgrades		NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (86.92%) / HTP***
			(12.36%) / ECP** (0.72%)

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^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Construct a new PVSC -Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / North Ave 345 kV circuit b2436.42 and any associated JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO substation upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) **DFAX Allocation:** ConEd (86.93%) / HTP*** (12.36%) / ECP** (0.71%) Construct a new North Ave - Airport 345 kV ConEd (86.59%) / HTP*** b2436.50 (12.31%) / ECP** (1.10%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (87.35%) / HTP*** b2436.60 to Bayway, convert it to (12.42%) / ECP** (0.23%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (87.43%) / HTP*** b2436.70 (12.43%) / ECP** (0.14%) and any associated substation upgrades

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

R	equired Tran	nsmission Enhancements	Annual Revenue Requiren	nent Responsible Customer(s)
				Load-Ratio Share Allocation:
				AEC (1.57%) / AEP (15.18%) /
				APS (5.89%) / ATSI (7.59%) /
				BGE (4.12%) / ComEd (12.38%)
				/ ConEd (0.55%) / Dayton
				(2.02%) / DEOK (3.15%) / DL
		Relocate the overhead		(1.72%) / DPL (2.53%) /
		portion of Linden - North		Dominion (13.30%) / EKPC
		Ave "T" 138 kV circuit to		(2.14%) / HTP*** (0.20%) /
	b2436.81	Bayway, convert it to 345		JCPL (3.57%) / ME (1.72%) /
		kV, and any associated		NEPTUNE* (0.41%) / PECO
		substation upgrades		(4.97%) / PENELEC (1.86%) /
		substation upgrades		PEPCO (3.85%) / PPL (4.95%) /
				PSEG (5.89%) / RE (0.24%) /
				ECP** (0.20%)
				DFAX Allocation:
				ConEd (22.94%) / HTP***
				(5.10%) / ECP** (0.08%) / PSEG
L				(69.17%) / RE (2.71%)
				Load-Ratio Share Allocation:
		Convert the Bayway - Linden "X" 138 kV circuit		AEC (1.57%) / AEP (15.18%) /
				APS (5.89%) / ATSI (7.59%) /
				BGE (4.12%) / ComEd (12.38%)
				/ ConEd (0.55%) / Dayton
				(2.02%) / DEOK (3.15%) / DL
				(1.72%) / DPL (2.53%) /
				Dominion (13.30%) / EKPC
			t	(2.14%) / HTP*** (0.20%) /
	b2436.82	to 345 kV and any		JCPL (3.57%) / ME (1.72%) /
		associated substation		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /	
			PEPCO (3.85%) / PPL (4.95%) /	
			PSEG (5.89%) / RE (0.24%) /	
			ECP** (0.20%)	
				DFAX Allocation:
				ConEd (22.94%) / HTP***
				(5.10%) / ECP** (0.08%) / PSEG
				(69.17%) / RE (2.71%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	nnual Revenue Requiren	nent Responsible Customer(s)
b2436.83	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2436.90	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100.00%) the 345 kV at Marion and any associated upgrades New Bergen 345/230 kV ConEd (91.84%) / HTP*** transformer and any b2437.10 (1.16%) / ECP** (3.56%) / PSEG associated substation (3.31%) / RE (0.13%) upgrades New Bergen 345/138 kV transformer #1 and any b2437.11 ConEd (100.00%) associated substation upgrades New Bergen 345/138 kV ConEd (81.64%) / HTP*** transformer #2 and any b2437.12 associated substation (18.36%)upgrades New Bayway 345/138 kV transformer #1 and any b2437.20 ConEd (100.00%) associated substation upgrades New Bayway 345/138 kV transformer #2 and any b2437.21 ConEd (100.00%) associated substation upgrades New Linden 345/230 kV transformer and any ConEd (86.94%) / HTP*** b2437.30 (11.36%) / ECP** (1.70%) associated substation upgrades New Linden 230/138 kV ConEd (15.49%) / HTP*** transformer and any (3.67%) / ECP** (15.51%) / b2437.31 associated substation PSEG (62.86%) / RE (2.47%) upgrades Install two reactors at b2438 PSEG (100.00%) Tosco 230 kV Replace the Tosco 138kV breaker 'CB1/2 (CBT)' b2439 PSEG (100.00%) with 63kA Rebuild Athenia 138 kV to b2474 PSEG (100%) 80kA

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Version: 7.2.2 Effective Date: February 16, 2016

Public Service Electric and Gas Company (cont.)

b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station	PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station	PSEG (100%)

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of HTP (36.49%) / ECP** overhead line from Edison b2218 - Meadow Rd - Metuchen (63.51%)(Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 PSEG (100%)ConEd kV bus by installing a new b2276 (66.90%) / ECP 230 kV bay at Sewaren (33.10%)230 kV Convert the two 138 kV circuits from Sewaren -PSEG (100%)ConEd Metuchen to 230 kV b2276.1 (66.90%) / ECP circuits including (33.10%) Lafayette and Woodbridge substation Reconfigure the Metuchen PSEG (100%)ConEd 230 kV station to b2276.2 (66.90%) / ECP accommodate the two (33.10%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Convert the Bergen -Dominion (13.30%) / EKPC Homestead "F" 138 kV (2.14%) / HTP*** (0.20%) / b2436.11 circuit to 345 kV and any JCPL (3.57%) / ME (1.72%) / associated substation NEPTUNE* (0.41%) / PECO upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) **DFAX Allocation:** ConEd (94.04%) / HTP*** (0.51%) / ECP** (5.45%) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Convert the Bergen -Dominion (13.30%) / EKPC North Bergen "E" 138 kV (2.14%) / HTP*** (0.20%) / circuit to 345 kV and any b2436.12 JCPL (3.57%) / ME (1.72%) / associated substation NEPTUNE* (0.41%) / PECO upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) **DFAX Allocation:** ConEd (94.32%) / HTP*** (0.22%) / ECP** (5.46%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	nnual Revenue Requirem	ent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
	Convert the North Bergen		(1.72%) / DPL (2.53%) /
	- Homestead "E" 138 kV		Dominion (13.30%) / EKPC
b2436.13	circuit to 345 kV and any		(2.14%) / HTP*** (0.20%) /
02430.13	associated substation		JCPL (3.57%) / ME (1.72%) /
	upgrades		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (93.88%) / HTP***
			(0.68%) / ECP** (5.44%)
			Load-Ratio Share Allocation:
	Convert the Homestead -		AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
			Dominion (13.30%) / EKPC
	Marion "E" 138 kV circuit		(2.14%) / HTP*** (0.20%) /
b2436.14	to 345 kV and any		JCPL (3.57%) / ME (1.72%) /
	associated substation		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (92.09%) / HTP***
			(0.44%) / ECP** (5.33%) / PSEG
			(2.06%) / RE (0.08%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements	Annual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Convert the Homestead -		Dominion (13.30%) / EKPC
	Marion "F" 138 kV circui	t	(2.14%) / HTP*** (0.20%) /
b2436.15	to 345 kV and any		JCPL (3.57%) / ME (1.72%) /
	associated substation		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (92.45%) / HTP***
			(0.39%) / ECP** (5.35%) / PSEG
			(1.74%) / RE (0.07%)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
	Convert the Marion -		(1.72%) / DPL (2.53%) /
	Bayonne "L" 138 kV		Dominion (13.30%) / EKPC
b2436.21	circuit to 345 kV and any		(2.14%) / HTP*** (0.20%) /
02 130.21	associated substation		JCPL (3.57%) / ME (1.72%) /
	upgrades		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (85.83%) / HTP***
			(13.21%) / ECP** (0.96%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements	Annual Revenue Requirem	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
	Convert the Marion -		(1.72%) / DPL (2.53%) /
	Bayonne "C" 138 kV		Dominion (13.30%) / EKPC
b2436.22	circuit to 345 kV and any	7	(2.14%) / HTP*** (0.20%) /
02430.22	associated substation		JCPL (3.57%) / ME (1.72%) /
	upgrades		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (85.83%) / HTP***
			(13.21%) / ECP** (0.96%)
	Convert the Bayonne - PVSC "I" 138 kV circuit		Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
			Dominion (13.30%) / EKPC
b2436.31	to 345 kV and any		(2.14%) / HTP*** (0.20%) /
02430.31	associated substation		JCPL (3.57%) / ME (1.72%) /
			NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (86.70%) / HTP***
			(12.33%) / ECP** (0.97%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	annual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Construct a new Bayonne		Dominion (13.30%) / EKPC
b2436.32	- PVSC 345 kV circuit and		(2.14%) / HTP*** (0.20%) /
02430.32	any associated substation		JCPL (3.57%) / ME (1.72%) /
	upgrades		NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (86.67%) / HTP***
			(12.32%) / ECP** (1.01%)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Convert the PVSC - North		Dominion (13.30%) / EKPC
b2436.41	Ave "E" 138 kV circuit to		(2.14%) / HTP*** (0.20%) /
02430.41	345 kV and any associated		JCPL (3.57%) / ME (1.72%) /
	substation upgrades		NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (86.92%) / HTP***
			(12.36%) / ECP** (0.72%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Construct a new PVSC -Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / North Ave 345 kV circuit b2436.42 and any associated JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO substation upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) **DFAX Allocation:** ConEd (86.93%) / HTP*** (12.36%) / ECP** (0.71%) Construct a new North Ave - Airport 345 kV ConEd (86.59%) / HTP*** b2436.50 (12.31%) / ECP** (1.10%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (87.35%) / HTP*** b2436.60 to Bayway, convert it to (12.42%) / ECP** (0.23%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (87.43%) / HTP*** b2436.70 (12.43%) / ECP** (0.14%) and any associated substation upgrades

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Trai	nsmission Enhancements A	nnual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
	D-14-4111	(1.72%) / DPL (2.53%) /
	Relocate the overhead	Dominion (13.30%) / EKPC
	portion of Linden - North Ave "T" 138 kV circuit to	(2.14%) / HTP*** (0.20%) /
b2436.81		JCPL (3.57%) / ME (1.72%) /
	Bayway, convert it to 345	NEPTUNE* (0.41%) / PECO
	kV, and any associated	(4.97%) / PENELEC (1.86%) /
	substation upgrades	PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (22.94%) / HTP***
		(5.10%) / ECP** (0.08%) / PSEG
		(69.17%) / RE (2.71%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Convert the Bayway -	Dominion (13.30%) / EKPC
	Linden "X" 138 kV circuit	(2.14%) / HTP*** (0.20%) /
b2436.82	to 345 kV and any	JCPL (3.57%) / ME (1.72%) /
	associated substation	NEPTUNE* (0.41%) / PECO
	upgrades	(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (22.94%) / HTP***
		(5.10%) / ECP** (0.08%) / PSEG
		(69.17%) / RE (2.71%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements	Annual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Convert the Bayway -		Dominion (13.30%) / EKPC
	Linden "Z" 138 kV circui	t	(2.14%) / HTP*** (0.20%) /
b2436.83	to 345 kV and any		JCPL (3.57%) / ME (1.72%) /
	associated substation		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (22.94%) / HTP***
			(5.10%) / ECP** (0.08%) / PSEG
			(69.17%) / RE (2.71%)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
	Relocate Farragut -		(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Hudson "B" and "C" 345		Dominion (13.30%) / EKPC
b2436.90	kV circuits to Marion 345	5	(2.14%) / HTP*** (0.20%) /
	kV and any associated		JCPL (3.57%) / ME (1.72%) /
	substation upgrades		NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (100.00%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100.00%) the 345 kV at Marion and any associated upgrades New Bergen 345/230 kV ConEd (91.84%) / HTP*** transformer and any b2437.10 (1.16%) / ECP** (3.56%) / PSEG associated substation (3.31%) / RE (0.13%) upgrades New Bergen 345/138 kV transformer #1 and any b2437.11 ConEd (100.00%) associated substation upgrades New Bergen 345/138 kV ConEd (81.64%) / HTP*** transformer #2 and any b2437.12 associated substation (18.36%)upgrades New Bayway 345/138 kV transformer #1 and any b2437.20 ConEd (100.00%) associated substation upgrades New Bayway 345/138 kV transformer #2 and any b2437.21 ConEd (100.00%) associated substation upgrades New Linden 345/230 kV transformer and any ConEd (86.94%) / HTP*** b2437.30 (11.36%) / ECP** (1.70%) associated substation upgrades New Linden 230/138 kV ConEd (15.49%) / HTP*** transformer and any (3.67%) / ECP** (15.51%) / b2437.31 associated substation PSEG (62.86%) / RE (2.47%) upgrades Install two reactors at b2438 PSEG (100.00%) Tosco 230 kV Replace the Tosco 138kV breaker 'CB1/2 (CBT)' b2439 PSEG (100.00%) with 63kA Rebuild Athenia 138 kV to b2474 PSEG (100%) 80kA

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Enhancements Annua	al Revenue Requirement Responsible Customer(s)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station	PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station	PSEG (100%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
	Install a 100 MVAR reactor	PSEG (100%)
b2703	at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of HTP (36.49%) / ECP** overhead line from Edison b2218 - Meadow Rd - Metuchen (63.51%)(Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 PSEG (100%)ConEd kV bus by installing a new b2276 (66.90%) / ECP 230 kV bay at Sewaren (33.10%)230 kV Convert the two 138 kV circuits from Sewaren -PSEG (100%)ConEd Metuchen to 230 kV b2276.1 (66.90%) / ECP circuits including (33.10%) Lafayette and Woodbridge substation Reconfigure the Metuchen PSEG (100%)ConEd 230 kV station to b2276.2 (66.90%) / ECP accommodate the two (33.10%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / Dominion (13.30%) / Convert the Bergen – DPL (2.53%) / ECP** (0.20%) / Marion 138 kV path to EKPC (2.14%) / HTP*** (0.20%) b2436.10 double circuit 345 kV and / JCPL (3.57%) / ME (1.72%) / associated substation NEPTUNE* (0.41%) / PECO upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (93.00%) / ECP (5.76%) / HTP (0.24%) / PSEG (0.96%) / RE (0.04%) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Convert the Marion -Dominion (13.30%) / ECP** Bayonne "L" 138 kV (0.20%) / EKPC (2.14%) / b2436.21 circuit to 345 kV and any HTP*** (0.20 %) / JCPL (3.57%) associated substation / ME (1.72%) / NEPTUNE* upgrades (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (87.68%) / HTP*** (11.72%) / ECP** (0.60 %)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

equired Transmission Eminancements Annual Revenue Requirement Responsible Customer(s)				
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)		
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.07%) / ECP (0.30%) / HTP (13.63%)		
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.05%) / ECP (0.33%) / HTP (13.62%)		

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North ConEd (85.84%) / HTP*** Ave - Airport 345 kV b2436.50 (13.60%) / ECP** (0.56%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (86.19%) / HTP*** b2436.60 to Bayway, convert it to (13.65%) / ECP** (0.16 %) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (86.26%) / HTP*** b2436.70 and any associated (13.66%) / ECP** (0.08 %) substation upgrades **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Relocate the overhead Dominion (13.30%) / ECP** portion of Linden - North (0.20%) / EKPC (2.14%) / Ave "T" 138 kV circuit to b2436.81 HTP*** (0.20 %) / JCPL (3.57%) Bayway, convert it to 345 / ME (1.72%) / NEPTUNE* kV, and any associated (0.41%) / PECO (4.97%) / substation upgrades PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (12.79%) / HTP*** (6.60%) / ECP** (0.02%) / PSEG (77.53%) / RE (3.06%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	nnual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Convert the Bayway -	Dominion (13.30%) / ECP**
	Linden "Z" 138 kV circuit	(0.20%) / EKPC (2.14%) /
b2436.83	to 345 kV and any	HTP*** (0.20 %) / JCPL (3.57%)
	associated substation	/ ME (1.72%) / NEPTUNE*
	upgrades	(0.41%) / PECO (4.97%) /
		PENELEC (1.86%) / PEPCO
		(3.85%) / PPL (4.95%) / PSEG
		(5.89%) / RE (0.24%)
		DFAX Allocation:
		ConEd (12.80%) / HTP***
		(6.60%) / ECP** (0.02%) / PSEG
		(77.52%) / RE (3.06%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
	Convert the Bayway – Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades	/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
		Dominion (13.30%) / ECP**
b2436.84		(0.20%) / EKPC (2.14%) /
		HTP*** (0.20 %) / JCPL (3.57%)
		/ ME (1.72%) / NEPTUNE*
		(0.41%) / PECO (4.97%) /
		PENELEC (1.86%) / PEPCO
		(3.85%) / PPL (4.95%) / PSEG
		(5.89%) / RE (0.24%)
		DFAX Allocation:
		ConEd (65.97%) / ECP (0.02%) /
		HTP (34.01%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	nnual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2436.85	Convert the Bayway – Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades	(1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20 %) / JCPL (3.57%)
		HTP (34.01%)
b2436.90	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20 %) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%)
b2436.91	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated upgrades	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

<u>kequired 1 rar</u>	ismission Enhancements Annu	ial Revenue Requiremen	it Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades		ConEd (89.34%) / HTP*** (1.07%) / ECP** (5.58%) / PSEG (3.86%) / RE (0.15%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades		ConEd (95.12%) / ECP (4.88%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		ConEd (0.32%) / ECP (0.03%) / HTP (3.27%) / PSEG (92.72%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		ConEd (0.15%) / ECP (0.02%) / HTP (2.91%) / PSEG (93.24%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		ConEd (19.62%) / HTP*** (8.43%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (68.93%) / RE (2.72%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		ConEd (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)				
		Load-Ratio Share Allocation:		
		AEC (1.57%) / AEP (15.18%) /		
		APS (5.89%) / ATSI (7.59%) /		
		BGE (4.12%) / ComEd (12.38%) /		
		ConEd (0.55%) / Dayton (2.02%) /		
		DEOK (3.15%) / DL (1.72%) /		
		DPL (2.53%) / Dominion		
	Install an SVC at New	(13.30%) / ECP** (0.20%) /		
b2633.3	Freedom 500 kV	EKPC (2.14%) / HTP*** (0.20 %)		
	substation	/ JCPL (3.57%) / ME (1.72%) /		
		NEPTUNE* (0.41%) / PECO		
		(4.97%) / PENELEC (1.86%) /		
		PEPCO (3.85%) / PPL (4.95%) /		
		PSEG (5.89%) / RE (0.24%)		
		DFAX Allocation:		
		AEC (0.01%) / DPL (99.98%) /		
		JCPL (0.01%)		
	Add a new 500 kV bay at	AEC (0.010/) / DDI (00.080/) /		
b2633.4	Salem (Expansion of	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		
	Salem substation)	JCFL (0.0170)		
1.2622.5	Add a new 500/230 kV	AEC (0.01%) / DPL (99.98%) /		
b2633.5	autotransformer at Salem	JCPL (0.01%)		
		Load-Ratio Share Allocation:		
		AEC (1.57%) / AEP (15.18%) /		
		APS (5.89%) / ATSI (7.59%) /		
		BGE (4.12%) / ComEd (12.38%) /		
	Implement high speed	ConEd (0.55%) / Dayton (2.02%) /		
	relaying utilizing OPGW	DEOK (3.15%) / DL (1.72%) /		
	on Salem – Orchard 500	DPL (2.53%) / Dominion		
	kV, Hope Creek – New	(13.30%) / ECP** (0.20%) /		
b2633.8	Freedom 500 kV, New	EKPC (2.14%) / HTP*** (0.20 %)		
	Freedom - Salem 500 kV,	/ JCPL (3.57%) / ME (1.72%) /		
	Hope Creek – Salem 500	NEPTUNE* (0.41%) / PECO		
	kV, and New Freedom –	(4.97%) / PENELEC (1.86%) /		
	Orchard 500 kV lines	PEPCO (3.85%) / PPL (4.95%) /		
		PSEG (5.89%) / RE (0.24%)		
		DFAX Allocation:		
		AEC (0.01%) / DPL (99.98%) /		
		JCPL (0.01%)		

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

required Trai	ismission Enhancements Annua	il Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Version: 9.2.0 Effective Date: November 30, 2016

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of HTP (36.49%) / ECP** overhead line from Edison b2218 - Meadow Rd - Metuchen (63.51%) (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 PSEG (100%)ConEd kV bus by installing a new b2276 (66.90%) / ECP 230 kV bay at Sewaren (33.10%)230 kV Convert the two 138 kV circuits from Sewaren -PSEG (100%)ConEd Metuchen to 230 kV b2276.1 (66.90%) / ECP circuits including (33.10%) Lafayette and Woodbridge substation Reconfigure the Metuchen PSEG (100%)ConEd 230 kV station to b2276.2 (66.90%) / ECP accommodate the two (33.10%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Version: 9.2.0 Effective Date: November 30, 2016

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / Dominion (13.30%) / Convert the Bergen – DPL (2.53%) / ECP** (0.20%) / Marion 138 kV path to EKPC (2.14%) / HTP*** (0.20%) b2436.10 double circuit 345 kV and / JCPL (3.57%) / ME (1.72%) / associated substation NEPTUNE* (0.41%) / PECO upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (93.00%) / ECP (5.76%) / HTP (0.24%) / PSEG (0.96%) / RE (0.04%) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Convert the Marion -Dominion (13.30%) / ECP** Bayonne "L" 138 kV (0.20%) / EKPC (2.14%) / b2436.21 circuit to 345 kV and any HTP*** (0.20 %) / JCPL (3.57%) associated substation / ME (1.72%) / NEPTUNE* upgrades (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (87.68%) / HTP*** (11.72%) / ECP** (0.60 %)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Version: 9.2.0 Effective Date: November 30, 2016

Public Service Electric and Gas Company (cont.)

equired Transmission Eminancements Annual Revenue Requirement Responsible Customer(s)				
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)		
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.07%) / ECP (0.30%) / HTP (13.63%)		
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.05%) / ECP (0.33%) / HTP (13.62%)		

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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North ConEd (85.84%) / HTP*** Ave - Airport 345 kV b2436.50 (13.60%) / ECP** (0.56%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (86.19%) / HTP*** b2436.60 to Bayway, convert it to (13.65%) / ECP** (0.16 %) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (86.26%) / HTP*** b2436.70 and any associated (13.66%) / ECP** (0.08 %) substation upgrades **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Relocate the overhead Dominion (13.30%) / ECP** portion of Linden - North (0.20%) / EKPC (2.14%) / Ave "T" 138 kV circuit to b2436.81 HTP*** (0.20 %) / JCPL (3.57%) Bayway, convert it to 345 / ME (1.72%) / NEPTUNE* kV, and any associated (0.41%) / PECO (4.97%) / substation upgrades PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (12.79%) / HTP*** (6.60%) / ECP** (0.02%) / PSEG (77.53%) / RE (3.06%)

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AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38% / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) /	Required Tran	nsmission Enhancements A	nnual Revenue Requiremen	t Responsible Customer(s)
APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38% / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) /				Load-Ratio Share Allocation:
BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) /				AEC (1.57%) / AEP (15.18%) /
/ ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) /				APS (5.89%) / ATSI (7.59%) /
(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) /			E	BGE (4.12%) / ComEd (12.38%)
(2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) /				/ ConEd (0.55%) / Dayton
				(2.02%) / DEOK (3.15%) / DL
S 1 5				(1.72%) / DPL (2.53%) /
Convert the Bayway - Dominion (13.30%) / ECP**		Convert the Bayway -		Dominion (13.30%) / ECP**
Linden "Z" 138 kV circuit (0.20%) / EKPC (2.14%) /		Linden "Z" 138 kV circuit		
b2436.83 to 345 kV and any HTP*** (0.20 %) / JCPL (3.57%)	b2436.83	to 345 kV and any	Н	TP*** (0.20 %) / JCPL (3.57%)
associated substation / ME (1.72%) / NEPTUNE*		associated substation		/ ME (1.72%) / NEPTUNE*
upgrades (0.41%) / PECO (4.97%) /		upgrades		
PENELEC (1.86%) / PEPCO				, ,
(3.85%) / PPL (4.95%) / PSEG				(3.85%) / PPL (4.95%) / PSEG
(5.89%) / RE (0.24%)				
DFAX Allocation:				
ConEd (12.80%) / HTP***				
			(6	6.60%) / ECP** (0.02%) / PSEG
(77.52%) / RE (3.06%)				· · · · · · · · · · · · · · · · · · ·
				Load-Ratio Share Allocation:
		Convert the Bayway – Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades		AEC (1.57%) / AEP (15.18%) /
				APS (5.89%) / ATSI (7.59%) /
				3GE (4.12%) / ComEd (12.38%)
/ ConEd (0.55%) / Dayton				` /
				(2.02%) / DEOK (3.15%) / DL
Convert the Bayway – (1.72%) / DPL (2.53%) /				
Linden "W" 139 kV Dominion (13.30%) / ECP***				
12426 84 circuit to 245 ltV and any (0.20%) / EKPC (2.14%) /	b2436.84			
associated substation HIP*** (0.20 %) / JCPL (3.5/%	62.00.01		H	TTP*** (0.20 %) / JCPL (3.57%)
ungrades / ME (1./2%)/ NEPTUNE*				,
(0.41%)/ PECO (4.9/%)/				
PENELEC (1.86%) / PEPCO				
				(3.85%) / PPL (4.95%) / PSEG
(5.89%) / RE (0.24%)			<u> </u>	
DFAX Allocation:				
HTP (34.01%)				ConEd (65.97%) / ECP (0.02%) /

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Convert the Bayway	Required Tran	nsmission Enhancements A	Annual Revenue Requirement Responsible Customer(s)
APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / ECP** (0.20%) / ECP** (0.20%) / ECP** (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PEPCO (3.85%) / PEPCO (3.85%) / PEPCO (3.85%) / PEC (0.02%) / HTP (34.01%)	_		Load-Ratio Share Allocation:
BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PEL (4.95%) / PESG (5.89%) / RE (0.24%)			
Convert the Bayway			
Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "M" 138 kV circuits to Marion 345 kV and any associated substation upgrades Convert the Bayway - Linden "Convert the Bayway - Linden "Convert the Bayway - Linden "Convert the Bayway - Loominion (13.30%) / Deck (3.15%) / Deck (3			
Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PECO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (65.97%) / ECP (0.02%) / HTP (34.01%) ConEd (65.97%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PECO (3.85%) / PDL (4.95%) / PDL			· · · · · · · · · · · · · · · · · · ·
Dominion (13.30%) / ECP** Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades			
Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades Linden "M" 138 kV (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: Coned (65.97%) / ECP (0.02%) / HTP (34.01%) Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / Coned (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: Coned (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and		Convert the Payryay	
b2436.85 circuit to 345 kV and any associated substation upgrades circuit to 345 kV and any associated substation upgrades ME (1.72%) / NEPTUNE*			
associated substation upgrades MITE (0.20 %) ACPT (3.3 %) /ME (1.72%) NEPTUNE* (0.41%) PECO (4.97%) PENELEC (1.86%) PEPCO (3.85%) PPL (4.95%) PSEG (5.89%) RE (0.24%) DFAX Allocation: ConEd (65.97%) ECP (0.02%) HTTP (34.01%) Load-Ratio Share Allocation: AEC (1.57%) AEP (15.18%) APS (5.89%) ATSI (7.59%) BGE (4.12%) Comed (12.38%) ConEd (0.55%) Dayton (2.02%) DEOK (3.15%) DL (1.72%) DPL (2.53%) Dominion (13.30%) ECP** (0.20%) EKPC (2.14%) Hudson "B" and "C" 345 kV circuits to Marion 345 kV circuits to Marion 345 kV and any associated substation upgrades b2436.91 Belocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%) PSEG (100%) PSEG (100%)	h2/26 95		
b2436.90 Relocate Farragut - Hudson "B" and "C" 345 kV and any associated substation upgrades B2436.90 Relocate the Hudson 2 generation to inject into the 345 kV at Marion and substavion and substav	02430.83	•	HTP*** (0.20 %) / JCPL (3.57%)
Co.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%)			
(3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (65.97%) / ECP (0.02%) / HTP (34.01%) Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PECO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%)		upgrades	
(5.89%) / RE (0.24%) DFAX Allocation: ConEd (65.97%) / ECP (0.02%) / HTP (34.01%)			` ,
DFAX Allocation: ConEd (65.97%) / ECP (0.02%) / HTP (34.01%) Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DEOK (3.15%) / DL (1.72%) / DEOK (3.15%) / DL (1.72%) / DEOK (3.15%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20 %) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PECO (3.85%) / PL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			(3.85%) / PPL (4.95%) / PSEG
ConEd (65.97%) / ECP (0.02%) / HTP (34.01%)			(5.89%) / RE (0.24%)
BTP (34.01%) Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) PSEG (0.76%) / RE (0.03%) PSEG (0.76%) / RE (0.03%) PSEG (100%) PSE			DFAX Allocation:
Boda-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			ConEd (65.97%) / ECP (0.02%) /
AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20 %) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and			HTP (34.01%)
APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)		Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated	Load-Ratio Share Allocation:
BGE (4.12%) / ComEd (12.38%)			AEC (1.57%) / AEP (15.18%) /
BGE (4.12%) / ComEd (12.38%)			APS (5.89%) / ATSI (7.59%) /
Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades We have a substation upgrades (0.20%) / Dept (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PECO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%)			
Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades We have a substation upgrades (0.20%) / Dept (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PECO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%)			/ ConEd (0.55%) / Dayton
b2436.90 Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20 %) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			(2.02%) / DEOK (3.15%) / DL
Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades Washington and "C" 345 kV and any associated substation upgrades Hudson 2 Generation to inject into the 345 kV at Marion and Dominion (13.30%) / ECP*** (0.20%) / EKPC (2.14%) / HTP*** (0.20 %) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%)			(1.72%) / DPL (2.53%) /
b2436.90 kV circuits to Marion 345 kV and any associated substation upgrades kV circuits to Marion 345 kV and any associated substation upgrades kV circuits to Marion 345 kV and any associated substation upgrades (0.20%) / EKPC (2.14%) / HTP*** (0.20 %) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and			Dominion (13.30%) / ECP**
HTP*** (0.20 %) / JCPL (3.57%) KV and any associated substation upgrades HTP*** (0.20 %) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)	12426.00		(0.20%) / EKPC (2.14%) /
ME (1.72%) / NEPTUNE* substation upgrades	62436.90		HTP*** (0.20 %) / JCPL (3.57%)
Co.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			/ ME (1.72%) / NEPTUNE*
(3.85%) / PPL (4.95%) / PSEG			(0.41%) / PECO (4.97%) /
(3.85%) / PPL (4.95%) / PSEG			PENELEC (1.86%) / PEPCO
b2436.91 DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and			
b2436.91 DFAX Allocation: ConEd (99.16%) / HTP (0.05%) / PSEG (0.76%) / RE (0.03%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and			(5.89%) / RE (0.24%)
Belocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (0.76%) / RE (0.03%) PSEG (0.76%) / RE (0.03%) PSEG (100%)			· · · · · · · · · · · · · · · · · · ·
Belocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (0.76%) / RE (0.03%) PSEG (0.76%) / RE (0.03%) PSEG (100%)			ConEd (99.16%) / HTP (0.05%) /
b2436.91 generation to inject into the 345 kV at Marion and PSEG (100%)			PSEG (0.76%) / RE (0.03%)
b2436.91 generation to inject into the 345 kV at Marion and PSEG (100%)		Relocate the Hudson 2	
the 345 kV at Marion and PSEG (100%)	1.0.40.6.01		PGPG (1000)
	b2436.91		PSEG (100%)
		any associated upgrades	

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***Hudson Transmission Partners, LLC

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b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades		ConEd (89.34%) / HTP*** (1.07%) / ECP** (5.58%) / PSEG (3.86%) / RE (0.15%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades		ConEd (95.12%) / ECP (4.88%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		ConEd (0.32%) / ECP (0.03%) / HTP (3.27%) / PSEG (92.72%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		ConEd (0.15%) / ECP (0.02%) / HTP (2.91%) / PSEG (93.24%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		ConEd (19.62%) / HTP*** (8.43%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (68.93%) / RE (2.72%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		ConEd (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)			
		Load-Ratio Share Allocation:		
		AEC (1.57%) / AEP (15.18%) /		
		APS (5.89%) / ATSI (7.59%) /		
		BGE (4.12%) / ComEd (12.38%) /		
		ConEd (0.55%) / Dayton (2.02%) /		
		DEOK (3.15%) / DL (1.72%) /		
		DPL (2.53%) / Dominion		
	Install an SVC at New	(13.30%) / ECP** (0.20%) /		
b2633.3	Freedom 500 kV	EKPC (2.14%) / HTP*** (0.20 %)		
	substation	/ JCPL (3.57%) / ME (1.72%) /		
		NEPTUNE* (0.41%) / PECO		
		(4.97%) / PENELEC (1.86%) /		
		PEPCO (3.85%) / PPL (4.95%) /		
		PSEG (5.89%) / RE (0.24%)		
		DFAX Allocation:		
		AEC (0.01%) / DPL (99.98%) /		
		JCPL (0.01%)		
	Add a new 500 kV bay at	AEC (0.01%) / DPL (99.98%) /		
b2633.4	Salem (Expansion of	JCPL (0.01%)		
	Salem substation)	JCI L (0.0170)		
b2633.5	Add a new 500/230 kV	AEC (0.01%) / DPL (99.98%) /		
02033.3	autotransformer at Salem	JCPL (0.01%)		
		Load-Ratio Share Allocation:		
		AEC (1.57%) / AEP (15.18%) /		
		APS (5.89%) / ATSI (7.59%) /		
		BGE (4.12%) / ComEd (12.38%) /		
	Implement high speed	ConEd (0.55%) / Dayton (2.02%) /		
	relaying utilizing OPGW	DEOK (3.15%) / DL (1.72%) /		
	on Salem – Orchard 500	DPL (2.53%) / Dominion		
	kV, Hope Creek – New	(13.30%) / ECP** (0.20%) /		
b2633.8	Freedom 500 kV, New	EKPC (2.14%) / HTP*** (0.20 %)		
	Freedom - Salem 500 kV,	/ JCPL (3.57%) / ME (1.72%) /		
	Hope Creek – Salem 500	NEPTUNE* (0.41%) / PECO		
	kV, and New Freedom –	(4.97%) / PENELEC (1.86%) /		
	Orchard 500 kV lines	PEPCO (3.85%) / PPL (4.95%) /		
		PSEG (5.89%) / RE (0.24%)		
		DFAX Allocation:		
		AEC (0.01%) / DPL (99.98%) /		
		JCPL (0.01%)		

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Version: 9.2.0 Effective Date: November 30, 2016

Public Service Electric and Gas Company (cont.)

kequired Fran	ismission Enhancements Annua	l Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Version: 9.3.0 Effective Date: January 1, 2017

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of HTP (36.49%) / ECP** overhead line from Edison b2218 - Meadow Rd - Metuchen (63.51%)(Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 PSEG (100%)ConEd kV bus by installing a new b2276 (64.55%) / ECP 230 kV bay at Sewaren (35.45%)230 kV Convert the two 138 kV circuits from Sewaren -PSEG (100%)ConEd Metuchen to 230 kV (64.55%) / ECP b2276.1 circuits including (35.45%) Lafayette and Woodbridge substation Reconfigure the Metuchen PSEG (100%)ConEd 230 kV station to b2276.2 (64.55%) / ECP accommodate the two (35.45%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL (1.76%) / Dominion (12.32%) / Convert the Bergen – DPL (2.60%) / ECP** (0.20%) / Marion 138 kV path to EKPC (1.82%) / HTP*** (0.20%) b2436.10 double circuit 345 kV and / JCPL (3.76%) / ME (1.86%) / associated substation NEPTUNE* (0.42%) / PECO upgrades (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** ConEd (84.22%) / ECP** (5.63%) / HTP*** (2.18%) / PSEG (7.66%) / RE (0.31%) **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL (1.76%) / Dominion (12.32%) / Convert the Marion -Bayonne "L" 138 kV DPL (2.60%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) b2436.21 circuit to 345 kV and any associated substation / JCPL (3.76%) / ME (1.86%) / NEPTUNE* (0.42%) / PECO upgrades (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** ConEd (87.68%) / HTP*** (11.72%) / ECP** (0.60 %)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

required Trai	Ismission Emancements Annu	iai Revenue Requirement Responsible Customer(s)
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades Construct a new North Ave – Bayonne 345 kV	ConEd (86.07%) / ECP (0.30%) / HTP (13.63%) ConEd (86.05%) / ECP (0.33%) /
02430.34	circuit and any associated substation upgrades	HTP (13.62%)

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(77.53%) / RE (3.06%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North ConEd (85.84%) / HTP*** Ave - Airport 345 kV b2436.50 (13.60%) / ECP** (0.56%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (86.19%) / HTP*** b2436.60 to Bayway, convert it to (13.65%) / ECP** (0.16 %) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (86.26%) / HTP*** b2436.70 (13.66%) / ECP** (0.08 %) and any associated substation upgrades **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL (1.76%) / Dominion (12.32%) / Relocate the overhead DPL (2.60%) / ECP** (0.20%) / portion of Linden - North EKPC (1.82%) / HTP*** (0.20%) Ave "T" 138 kV circuit to b2436.81 Bayway, convert it to 345 / JCPL (3.76%) / ME (1.86%) / NEPTUNE* (0.42%) / PECO kV, and any associated substation upgrades (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** ConEd (12.79%) / HTP*** (6.60%) / ECP** (0.02%) / PSEG

^{*}Neptune Regional Transmission System, LLC

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l Trar	nsmission Enhancements	Annual Revenue Requiren	ment Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.69%) / AEP (14.17%) /
			APS (5.50%) / ATSI (8.04%) /
			BGE (4.16%) / ComEd (13.35%)
			/ ConEd (0.57%) / Dayton
			(2.11%) / DEOK (3.35%) / DL
	Convert the Dayryey		(1.76%) / Dominion (12.32%) /
		,	DPL (2.60%) / ECP** (0.20%) /
02		l	EKPC (1.82%) / HTP*** (0.20%)
0.03	ı		/ JCPL (3.76%) / ME (1.86%) /
			NEPTUNE* (0.42%) / PECO
	upgrades		(5.27%) / PENELEC (1.84%) /
			PEPCO (4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			ConEd (12.80%) / HTP***
			(6.60%) / ECP** (0.02%) / PSEG
			(77.52%) / RE (3.06%)
			Load-Ratio Share Allocation:
	Convert the Bayway – Linden "W" 138 kV		AEC (1.69%) / AEP (14.17%) /
			APS (5.50%) / ATSI (8.04%) /
			BGE (4.16%) / ComEd (13.35%)
			/ ConEd (0.57%) / Dayton
			(2.11%) / DEOK (3.35%) / DL
			(1.76%) / Dominion (12.32%) /
			DPL (2.60%) / ECP** (0.20%) /
5.84		,	EKPC (1.82%) / HTP*** (0.20%)
			/ JCPL (3.76%) / ME (1.86%) /
			NEPTUNE* (0.42%) / PECO
	upgrades		(5.27%) / PENELEC (1.84%) /
			PEPCO (4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			ConEd (65.97%) / ECP (0.02%) /
	5.83	Convert the Bayway - Linden "Z" 138 kV circui to 345 kV and any associated substation upgrades Convert the Bayway - Linden "W" 138 kV	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation

^{*}Neptune Regional Transmission System, LLC

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Required Tran	nsmission Enhancements A	nnual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.69%) / AEP (14.17%) /
			APS (5.50%) / ATSI (8.04%) /
			BGE (4.16%) / ComEd (13.35%)
			/ ConEd (0.57%) / Dayton
			(2.11%) / DEOK (3.35%) / DL
	Convert the Bayway –		(1.76%) / Dominion (12.32%) /
	Linden "M" 138 kV		DPL (2.60%) / ECP** (0.20%) /
b2436.85	circuit to 345 kV and any		EKPC (1.82%) / HTP*** (0.20%)
	associated substation		/ JCPL (3.76%) / ME (1.86%) /
	upgrades		NEPTUNE* (0.42%) / PECO
			(5.27%) / PENELEC (1.84%) /
			PEPCO (4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			ConEd (65.97%) / ECP (0.02%) /
			HTP (34.01%)
	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades		Load-Ratio Share Allocation:
			AEC (1.69%) / AEP (14.17%) /
			APS (5.50%) / ATSI (8.04%) /
			BGE (4.16%) / ComEd (13.35%)
			/ ConEd (0.57%) / Dayton
			(2.11%) / DEOK (3.35%) / DL
			(1.76%) / Dominion (12.32%) /
			DPL (2.60%) / ECP** (0.20%) /
b2436.90			EKPC (1.82%) / HTP*** (0.20%)
			/ JCPL (3.76%) / ME (1.86%) /
			NEPTUNE* (0.42%) / PECO
			(5.27%) / PENELEC (1.84%) /
			PEPCO (4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			ConEd (99.16%) / HTP (0.05%) /
			PSEG (0.76%) / RE (0.03%)
	Relocate the Hudson 2		
b2436.91	generation to inject into		PSEG (100%)
02430.71	the 345 kV at Marion and		1 525 (10070)
	any associated upgrades		

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	DITED TO THE PROPERTY OF THE PARTY OF THE PA	iai Revenue Requirement Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades	ConEd (86.53%) / HTP*** (1.99%) / ECP** (5.88%) / PSEG (5.38%) / RE (0.22%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades	ConEd (68.17%) / ECP** (4.26%) / HTP*** (27.57%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades	ConEd (0.32%) / ECP (0.03%) / HTP (3.27%) / PSEG (92.72%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades	ConEd (0.15%) / ECP (0.02%) / HTP (2.91%) / PSEG (93.24%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades	ConEd (19.62%) / HTP*** (8.43%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (68.93%) / RE (2.72%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades	ConEd (100%)
b2438	Install two reactors at Tosco 230 kV	PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA	PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA	PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station	PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)			
		Load-Ratio Share Allocation:		
		AEC (1.69%) / AEP (14.17%) /		
		APS (5.50%) / ATSI (8.04%) /		
		BGE (4.16%) / ComEd (13.35%) /		
		ConEd (0.57%) / Dayton (2.11%) /		
		DEOK (3.35%) / DL (1.76%) /		
		Dominion (12.32%) / DPL		
	Install an SVC at New	(2.60%) / ECP** (0.20%) / EKPC		
b2633.3	Freedom 500 kV	(1.82%) / HTP*** (0.20%) / JCPL		
	substation	(3.76%) / ME (1.86%) /		
		NEPTUNE* (0.42%) / PECO		
		(5.27%) / PENELEC (1.84%) /		
		PEPCO (4.15%) / PPL (4.43%) /		
		PSEG (6.18%) / RE (0.25%)		
		DFAX Allocation:		
		AEC (0.01%) / DPL (99.98%) /		
		JCPL (0.01%)		
	Add a new 500 kV bay at	AEC (0.01%) / DPL (99.98%) /		
b2633.4	Salem (Expansion of	JCPL (0.01%)		
	Salem substation)	JCFL (0.0170)		
b2633.5	Add a new 500/230 kV	AEC (0.01%) / DPL (99.98%) /		
02033.3	autotransformer at Salem	JCPL (0.01%)		
		Load-Ratio Share Allocation:		
		AEC (1.69%) / AEP (14.17%) /		
		APS (5.50%) / ATSI (8.04%) /		
		BGE (4.16%) / ComEd (13.35%) /		
	Implement high speed	ConEd (0.57%) / Dayton (2.11%) /		
	relaying utilizing OPGW	DEOK (3.35%) / DL (1.76%) /		
	on Salem – Orchard 500	Dominion (12.32%) / DPL		
	kV, Hope Creek – New	(2.60%) / ECP** (0.20%) / EKPC		
b2633.8	Freedom 500 kV, New	(1.82%) / HTP*** (0.20%) / JCPL		
	Freedom - Salem 500 kV,	(3.76%) / ME (1.86%) /		
	Hope Creek – Salem 500	NEPTUNE* (0.42%) / PECO		
	kV, and New Freedom –	(5.27%) / PENELEC (1.84%) /		
	Orchard 500 kV lines	PEPCO (4.15%) / PPL (4.43%) /		
		PSEG (6.18%) / RE (0.25%)		
		DFAX Allocation:		
		AEC (0.01%) / DPL (99.98%) /		
		JCPL (0.01%)		

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Version: 9.3.0 Effective Date: January 1, 2017

Public Service Electric and Gas Company (cont.)

required Trai	ismission Ennancements Annua	ii Revenue Requirement	Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV		Load-Ratio Share Allocation: AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV		PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV		PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV		PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of HTP (36.49%) / ECP** overhead line from Edison b2218 - Meadow Rd - Metuchen (63.51%)(Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Tran	nsmission Enhancements A	nnual Revenue Requirement	Responsible Customer(s)
b2276	Eliminate the Sewaren 138 kV bus by installing a new 230 kV bay at Sewaren 230 kV		PSEG (100%)ConEd (64.55%) / ECP (35.45%)
b2276.1	Convert the two 138 kV circuits from Sewaren – Metuchen to 230 kV circuits including Lafayette and Woodbridge substation		PSEG (100%)ConEd (64.55%) / ECP (35.45%)
b2276.2	Reconfigure the Metuchen 230 kV station to accommodate the two converted circuits		PSEG (100%)ConEd (64.55%) / ECP (35.45%)
b2290	Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook 230 kV substations on the Raritian River - Middlesex (I-1023) circuit		PSEG (100%)
b2291	Replace circuit switcher at Lake Nelson 230 kV substation on the Raritian River - Middlesex (W- 1037) circuit		PSEG (100%)
b2295	Replace the Salem 500 kV breaker 10X with 63kA breaker		PSEG (100%)
b2421	Install all 69kV lines to interconnect Plainfield, Greenbrook, and Bridgewater stations and establish the 69kV network		PSEG (100%)
b2421.1	Install two 18MVAR capacitors at Plainfield and S. Second St substation		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / Dominion (13.30%) / Convert the Bergen – DPL (2.53%) / ECP** (0.20%) / Marion 138 kV path to EKPC (2.14%) / HTP*** (0.20%) b2436.10 double circuit 345 kV and / JCPL (3.57%) / ME (1.72%) / associated substation NEPTUNE* (0.41%) / PECO upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (93.00%) / ECP (5.76%) / HTP (0.24%) / PSEG (0.96%) / RE (0.04%) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Convert the Marion -Dominion (13.30%) / ECP** Bayonne "L" 138 kV (0.20%) / EKPC (2.14%) / b2436.21 circuit to 345 kV and any HTP*** (0.20 %) / JCPL (3.57%) associated substation / ME (1.72%) / NEPTUNE* upgrades (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (87.68%) / HTP*** (11.72%) / ECP** (0.60 %)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	ismission Ennancements Anni	iai Revenue Requirement Responsible Customer(s)
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.07%) / ECP (0.30%) / HTP (13.63%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.05%) / ECP (0.33%) / HTP (13.62%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North ConEd (85.84%) / HTP*** Ave - Airport 345 kV b2436.50 (13.60%) / ECP** (0.56%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (86.19%) / HTP*** b2436.60 to Bayway, convert it to (13.65%) / ECP** (0.16 %) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (86.26%) / HTP*** b2436.70 and any associated (13.66%) / ECP** (0.08 %) substation upgrades **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Relocate the overhead Dominion (13.30%) / ECP** portion of Linden - North (0.20%) / EKPC (2.14%) / Ave "T" 138 kV circuit to b2436.81 HTP*** (0.20 %) / JCPL (3.57%) Bayway, convert it to 345 / ME (1.72%) / NEPTUNE* kV, and any associated (0.41%) / PECO (4.97%) / substation upgrades PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (12.79%) / HTP*** (6.60%) / ECP** (0.02%) / PSEG (77.53%) / RE (3.06%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements A	nnual Revenue Requireme	ent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Convert the Bayway -		Dominion (13.30%) / ECP**
	Linden "Z" 138 kV circuit		(0.20%) / EKPC (2.14%) /
b2436.83	to 345 kV and any		HTP*** (0.20 %) / JCPL (3.57%)
	associated substation		/ ME (1.72%) / NEPTUNE*
	upgrades		(0.41%) / PECO (4.97%) /
			PENELEC (1.86%) / PEPCO
			(3.85%) / PPL (4.95%) / PSEG
			(5.89%) / RE (0.24%)
			DFAX Allocation:
			ConEd (12.80%) / HTP***
			(6.60%) / ECP** (0.02%) / PSEG
			(77.52%) / RE (3.06%)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
	Convert the Bayway – Linden "W" 138 kV		APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
			Dominion (13.30%) / ECP**
b2436.84	circuit to 345 kV and any		(0.20%) / EKPC (2.14%) /
	associated substation		HTP*** (0.20 %) / JCPL (3.57%)
	upgrades		/ ME (1.72%) / NEPTUNE*
			(0.41%) / PECO (4.97%) /
			PENELEC (1.86%) / PEPCO
			(3.85%) / PPL (4.95%) / PSEG
			(5.89%) / RE (0.24%)
			DFAX Allocation:
			ConEd (65.97%) / ECP (0.02%) /
			HTP (34.01%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements A	nnual Revenue Requirement Responsible Customer(s)
b2436.85	Convert the Bayway – Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2436.90	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2436.91	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated upgrades	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

aquilou 11ai	ismission enhancements Annu	iai Revenue Requiremen	it Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades		ConEd (89.34%) / HTP*** (1.07%) / ECP** (5.58%) / PSEG (3.86%) / RE (0.15%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades		ConEd (95.12%) / ECP (4.88%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		ConEd (0.32%) / ECP (0.03%) / HTP (3.27%) / PSEG (92.72%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		ConEd (0.15%) / ECP (0.02%) / HTP (2.91%) / PSEG (93.24%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		ConEd (19.62%) / HTP*** (8.43%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (68.93%) / RE (2.72%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		ConEd (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)			
		Load-Ratio Share Allocation:	
		AEC (1.57%) / AEP (15.18%) /	
		APS (5.89%) / ATSI (7.59%) /	
		BGE (4.12%) / ComEd (12.38%) /	
		ConEd (0.55%) / Dayton (2.02%) /	
		DEOK (3.15%) / DL (1.72%) /	
		DPL (2.53%) / Dominion	
	Install an SVC at New	(13.30%) / ECP** (0.20%) /	
b2633.3	Freedom 500 kV	EKPC (2.14%) / HTP*** (0.20 %)	
	substation	/ JCPL (3.57%) / ME (1.72%) /	
		NEPTUNE* (0.41%) / PECO	
		(4.97%) / PENELEC (1.86%) /	
		PEPCO (3.85%) / PPL (4.95%) /	
		PSEG (5.89%) / RE (0.24%)	
		DFAX Allocation:	
		AEC (0.01%) / DPL (99.98%) /	
		JCPL (0.01%)	
	Add a new 500 kV bay at	AEC (0.01%) / DPL (99.98%) /	
b2633.4	Salem (Expansion of	JCPL (0.01%)	
	Salem substation)	JCI L (0.0170)	
b2633.5	Add a new 500/230 kV	AEC (0.01%) / DPL (99.98%) /	
02033.3	autotransformer at Salem	JCPL (0.01%)	
		Load-Ratio Share Allocation:	
		AEC (1.57%) / AEP (15.18%) /	
		APS (5.89%) / ATSI (7.59%) /	
		BGE (4.12%) / ComEd (12.38%) /	
	Implement high speed	ConEd (0.55%) / Dayton (2.02%) /	
	relaying utilizing OPGW	DEOK (3.15%) / DL (1.72%) /	
	on Salem – Orchard 500	DPL (2.53%) / Dominion	
	kV, Hope Creek – New	(13.30%) / ECP** (0.20%) /	
b2633.8	Freedom 500 kV, New	EKPC (2.14%) / HTP*** (0.20 %)	
	Freedom - Salem 500 kV,	/ JCPL (3.57%) / ME (1.72%) /	
	Hope Creek – Salem 500	NEPTUNE* (0.41%) / PECO	
	kV, and New Freedom –	(4.97%) / PENELEC (1.86%) /	
	Orchard 500 kV lines	PEPCO (3.85%) / PPL (4.95%) /	
		PSEG (5.89%) / RE (0.24%)	
		DFAX Allocation:	
		AEC (0.01%) / DPL (99.98%) /	
		JCPL (0.01%)	

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Acquired Trai	ismission enhancements Annua	at Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)

Version: 11.2.0 Effective Date: April 6, 2017

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of HTP (36.49%) / ECP** overhead line from Edison b2218 - Meadow Rd - Metuchen (63.51%) (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 PSEG (100%)ConEd kV bus by installing a new b2276 (64.55%) / ECP 230 kV bay at Sewaren (35.45%)230 kV Convert the two 138 kV circuits from Sewaren -PSEG (100%)ConEd Metuchen to 230 kV (64.55%) / ECP b2276.1 circuits including (35.45%) Lafayette and Woodbridge substation Reconfigure the Metuchen PSEG (100%)ConEd 230 kV station to b2276.2 (64.55%) / ECP accommodate the two (35.45%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL (1.76%) / Dominion (12.32%) / Convert the Bergen – DPL (2.60%) / ECP** (0.20%) / Marion 138 kV path to EKPC (1.82%) / HTP*** (0.20%) b2436.10 double circuit 345 kV and / JCPL (3.76%) / ME (1.86%) / associated substation NEPTUNE* (0.42%) / PECO upgrades (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** ConEd (93.00%) / ECP (5.76%) / HTP (0.24%) / PSEG (0.96%) / RE (0.04%) **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL (1.76%) / Dominion (12.32%) / Convert the Marion -Bayonne "L" 138 kV DPL (2.60%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) b2436.21 circuit to 345 kV and any associated substation / JCPL (3.76%) / ME (1.86%) / NEPTUNE* (0.42%) / PECO upgrades (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** ConEd (87.68%) / HTP*** (11.72%) / ECP** (0.60 %)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

required Trai	ISINISSION EMPANCEMENTS Annu	dai Revenue Requirement Responsible Customer(s)
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%)
		(11.71%) / ECP** (0.60 %)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.07%) / ECP (0.30%) / HTP (13.63%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.05%) / ECP (0.33%) / HTP (13.62%)

^{*}Neptune Regional Transmission System, LLC **East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

(77.53%) / RE (3.06%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North ConEd (85.84%) / HTP*** Ave - Airport 345 kV b2436.50 (13.60%) / ECP** (0.56%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (86.19%) / HTP*** b2436.60 to Bayway, convert it to (13.65%) / ECP** (0.16 %) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (86.26%) / HTP*** b2436.70 (13.66%) / ECP** (0.08 %) and any associated substation upgrades **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL (1.76%) / Dominion (12.32%) / Relocate the overhead DPL (2.60%) / ECP** (0.20%) / portion of Linden - North EKPC (1.82%) / HTP*** (0.20%) Ave "T" 138 kV circuit to b2436.81 Bayway, convert it to 345 / JCPL (3.76%) / ME (1.86%) / NEPTUNE* (0.42%) / PECO kV, and any associated substation upgrades (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** ConEd (12.79%) / HTP*** (6.60%) / ECP** (0.02%) / PSEG

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	nnual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.69%) / AEP (14.17%) /
			APS (5.50%) / ATSI (8.04%) /
			BGE (4.16%) / ComEd (13.35%)
			/ ConEd (0.57%) / Dayton
			(2.11%) / DEOK (3.35%) / DL
	Convert the Bayway -		(1.76%) / Dominion (12.32%) /
	Linden "Z" 138 kV circuit		DPL (2.60%) / ECP** (0.20%) /
b2436.83	to 345 kV and any		EKPC (1.82%) / HTP*** (0.20%)
02430.03	associated substation		/ JCPL (3.76%) / ME (1.86%) /
	upgrades		NEPTUNE* (0.42%) / PECO
	upgrades		(5.27%) / PENELEC (1.84%) /
			PEPCO (4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			ConEd (12.80%) / HTP***
			(6.60%) / ECP** (0.02%) / PSEG
			(77.52%) / RE (3.06%)
			Load-Ratio Share Allocation:
			AEC (1.69%) / AEP (14.17%) /
			APS (5.50%) / ATSI (8.04%) /
			BGE (4.16%) / ComEd (13.35%)
			/ ConEd (0.57%) / Dayton
			(2.11%) / DEOK (3.35%) / DL
	Convert the Bayway –		(1.76%) / Dominion (12.32%) /
	Linden "W" 138 kV		DPL (2.60%) / ECP** (0.20%) /
b2436.84	circuit to 345 kV and any		EKPC (1.82%) / HTP*** (0.20%)
	associated substation		/ JCPL (3.76%) / ME (1.86%) /
	upgrades		NEPTUNE* (0.42%) / PECO
	10		(5.27%) / PENELEC (1.84%) /
			PEPCO (4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			ConEd (65.97%) / ECP (0.02%) /
			HTP (34.01%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tran	nsmission Enhancements A	nnual Revenue Requirement Responsible Customer(s))
		Load-Ratio Share Allocation	ı :
		AEC (1.69%) / AEP (14.17%)	/
		APS (5.50%) / ATSI (8.04%)	/
		BGE (4.16%) / ComEd (13.35%	6)
		/ ConEd (0.57%) / Dayton	
		(2.11%) / DEOK (3.35%) / DI	
	Convert the Bayway –	(1.76%) / Dominion (12.32%)	/
	Linden "M" 138 kV	DPL (2.60%) / ECP** (0.20%)) /
b2436.85	circuit to 345 kV and any	EKPC (1.82%) / HTP*** (0.20%)	%)
	associated substation	/ JCPL (3.76%) / ME (1.86%)	/
	upgrades	NEPTUNE* (0.42%) / PECO	ł
	2.0	(5.27%) / PENELEC (1.84%)	/
		PEPCO (4.15%) / PPL (4.43%)) /
		PSEG (6.18%) / RE (0.25%)	
		DFAX Allocation:	
		ConEd (65.97%) / ECP (0.02%)) /
		HTP (34.01%)	
	Relocate Farragut -	Load-Ratio Share Allocation	ι:
		AEC (1.69%) / AEP (14.17%)	/
		APS (5.50%) / ATSI (8.04%)	/
		BGE (4.16%) / ComEd (13.35%)	6)
		/ ConEd (0.57%) / Dayton	
		(2.11%) / DEOK (3.35%) / DI	
		(1.76%) / Dominion (12.32%)	
	Hudson "B" and "C" 345	DPL (2.60%) / ECP** (0.20%)	
b2436.90	kV circuits to Marion 345	EKPC (1.82%) / HTP*** (0.20%)	
	kV and any associated	/ JCPL (3.76%) / ME (1.86%)	
	substation upgrades	NEPTUNE* (0.42%) / PECO	
		(5.27%) / PENELEC (1.84%)	
		PEPCO (4.15%) / PPL (4.43%)	
		PSEG (6.18%) / RE (0.25%)	
		DFAX Allocation:	
		ConEd (99.16%) / HTP (0.05%))/
		PSEG (0.76%) / RE (0.03%)	
	Relocate the Hudson 2		
b2436.91	generation to inject into	PSEG (100%)	
02 130.71	the 345 kV at Marion and	1505 (10070)	
	any associated upgrades		

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

aquilou 11ai	ismission emancements. Annu	iai Revenue Requiremen	it Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades		ConEd (89.34%) / HTP*** (1.07%) / ECP** (5.58%) / PSEG (3.86%) / RE (0.15%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades		ConEd (95.12%) / ECP (4.88%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		ConEd (0.32%) / ECP (0.03%) / HTP (3.27%) / PSEG (92.72%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		ConEd (0.15%) / ECP (0.02%) / HTP (2.91%) / PSEG (93.24%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		ConEd (19.62%) / HTP*** (8.43%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (68.93%) / RE (2.72%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		ConEd (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

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Kequiled Trai	ismission Ennancements Annu	iai Revenue Requirement Responsible Customer(s)	
		Load-Ratio Share Alloca	tion:
		AEC (1.69%) / AEP (14.1	7%) /
		APS (5.50%) / ATSI (8.04	4%) /
		BGE (4.16%) / ComEd (13.	.35%) /
		ConEd (0.57%) / Dayton (2	.11%)/
		DEOK (3.35%) / DL (1.76	6%) /
		Dominion (12.32%) / D	PL
	Install an SVC at New	(2.60%) / ECP** (0.20%) /	
b2633.3	Freedom 500 kV	(1.82%) / HTP*** (0.20%)	/ JCPL
	substation	(3.76%) / ME (1.86%)) /
		NEPTUNE* (0.42%) / P	ECO
		(5.27%) / PENELEC (1.8-	4%) /
		PEPCO (4.15%) / PPL (4.4	43%) /
		PSEG (6.18%) / RE (0.2	5%)
		DFAX Allocation:	
		AEC (0.01%) / DPL (99.9	8%)/
		JCPL (0.01%)	
	Add a new 500 kV bay at	AEC (0.01%) / DPL (99.9	8%) /
b2633.4	Salem (Expansion of	JCPL (0.01%)	070)7
	Salem substation)	JC1 L (0.0170)	
b2633.5	Add a new 500/230 kV	AEC (0.01%) / DPL (99.9	8%)/
02033.3	autotransformer at Salem	JCPL (0.01%)	
		Load-Ratio Share Alloca	ition:
		AEC (1.69%) / AEP (14.1	7%) /
		APS (5.50%) / ATSI (8.04	4%) /
		BGE (4.16%) / ComEd (13.	.35%) /
	Implement high speed	ConEd (0.57%) / Dayton (2	.11%)/
	relaying utilizing OPGW	DEOK (3.35%) / DL (1.76	6%) /
	on Salem – Orchard 500	Dominion (12.32%) / D	
	kV, Hope Creek – New	(2.60%) / ECP** (0.20%) /	
b2633.8	Freedom 500 kV, New	(1.82%) / HTP*** (0.20%)	/ JCPL
	Freedom - Salem 500 kV,	(3.76%) / ME (1.86%)	
	Hope Creek – Salem 500	NEPTUNE* (0.42%) / P	ECO
	kV, and New Freedom –	(5.27%) / PENELEC (1.8-	/
	Orchard 500 kV lines	PEPCO (4.15%) / PPL (4.4	43%) /
		PSEG (6.18%) / RE (0.2	5%)
		DFAX Allocation:	
		AEC (0.01%) / DPL (99.9	8%)/
		JCPL (0.01%)	

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Trai	ismission enhancements Annua	ii Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%) PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Version: 11.2.0 Effective Date: April 6, 2017

Public Service Electric and Gas Company (cont.)

b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker	PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker	PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)	PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport	PSEG (100%)

Version: 12.2.0 Effective Date: May 1, 2017

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of HTP (36.49%) / ECP** overhead line from Edison b2218 - Meadow Rd - Metuchen (63.51%) (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 **PSEG**-ECP (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 **PSEG-ECP** (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 **PSEG-**ECP (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Convert the Bergen – Marion 138 kV path to ECP** (0.20%) / EKPC (1.82%) / double circuit 345 kV and HTP*** (0.20%) / JCPL (3.78%) b2436.10 associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** ECP (89.85%) / HTP (2.18%) / PSEG (7.66%) / RE (0.31%) **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Convert the Marion -ECP** (0.20%) / EKPC (1.82%) / Bayonne "L" 138 kV HTP*** (0.20%) / JCPL (3.78%) b2436.21 circuit to 345 kV and any associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (99.40%) / ECP** (0.60 %)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	Ismission Emancements Annu	iai Revenue Requirement Responsible Customer(s)
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.30%) / HTP (99.70%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.33%) / HTP (99.67%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North Ave - Airport 345 kV HTP*** (99.44%) / ECP** b2436.50 circuit and any associated (0.56%)substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit HTP*** (99.84%) / ECP** (0.16 b2436.60 to Bayway, convert it to %) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit HTP*** (99.92%) / ECP** (0.08 b2436.70 and any associated %) substation upgrades **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Relocate the overhead ECP** (0.20%) / EKPC (1.82%) / portion of Linden - North HTP*** (0.20%) / JCPL (3.78%) Ave "T" 138 kV circuit to b2436.81 Bayway, convert it to 345 / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / kV, and any associated substation upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (7.57%) / ECP** (0.02%) / PSEG (88.90%) / RE (3.51%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements A	annual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.70%) / AEP (14.25%) /
			APS (5.53%) / ATSI (8.09%) /
			BGE (4.19%) / ComEd (13.43%)
			/ Dayton (2.12%) / DEOK
			(3.37%) / DL (1.77%) / Dominion
	Convert the Bayway -		(12.39%) / DPL (2.62%) /
	Linden "Z" 138 kV circuit		ECP** (0.20%) / EKPC (1.82%) /
b2436.83	to 345 kV and any		HTP*** (0.20%) / JCPL (3.78%)
02430.83	associated substation		/ ME (1.87%) / NEPTUNE*
	upgrades		(0.42%) / PECO (5.30%) /
	upgrades		PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) / PSEG
			(6.22%) / RE (0.25%)
			DFAX Allocation:
			HTP*** (7.56%) / ECP**
			(0.02%) / PSEG (88.91%) / RE
			(3.51%)
			Load-Ratio Share Allocation:
			AEC (1.70%) / AEP (14.25%) /
			APS (5.53%) / ATSI (8.09%) /
			BGE (4.19%) / ComEd (13.43%)
			/ Dayton (2.12%) / DEOK
			(3.37%) / DL (1.77%) / Dominion
	Convert the Bayway –		(12.39%) / DPL (2.62%) /
1242604	Linden "W" 138 kV		ECP** (0.20%) / EKPC (1.82%) /
b2436.84	circuit to 345 kV and any		HTP*** (0.20%) / JCPL (3.78%)
	associated substation		/ ME (1.87%) / NEPTUNE*
	upgrades		(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) / PSEG
			(6.22%) / RE (0.25%)
			DFAX Allocation:
			ECP (0.02%) / HTP (99.98%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements A	nnual Revenue Requiren	nent Responsible Customer(s)
b2436.85	Convert the Bayway – Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
b2436.90	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades		ECP (0.02%) / HTP (99.98%) Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
			HTP (5.83%) / PSEG (90.60%) / RE (3.57%)
b2436.91	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated upgrades		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

xequired Tran	ismission Enhancements Annu	ial Revenue Requirement	Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades		HTP*** (1.99%) / ECP** (92.41%) / PSEG (5.38%) / RE (0.22%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades		ECP (72.43%) / HTP*** (27.57%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		ECP (0.35%) / HTP (3.28%) / PSEG (92.71%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		ECP (0.17%) / HTP (2.92%) / PSEG (93.23%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		HTP*** (10.53%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (85.78%) / RE (3.39%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		PSEG (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Kequired ITai	nsmission Enhancements Annu	ial Revenue Requirement Responsible Customer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.4	Add a new 500 kV bay at Salem (Expansion of Salem substation)	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.5	Add a new 500/230 kV autotransformer at Salem	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	ismission enhancements Annua	a Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%) PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker	PSEG (100%)	
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker	PSEG (100%)	
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)	PSEG (100%)	
b2755	Build a third 345 kV source into Newark Airport	PSEG (100%)	

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of HTP (36.49%) / ECP** overhead line from Edison b2218 - Meadow Rd - Metuchen (63.51%) (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 **PSEG**-ECP (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 **PSEG-ECP** (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 **PSEG-**ECP (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Responsible Customer(s)

(12.39%) / DPL (2.62%) /

ECP** (0.20%) / EKPC (1.82%) /

HTP*** (0.20%) / JCPL (3.78%)

/ ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) /

PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (99.40%) / ECP** (0.60 %)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements

Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Convert the Bergen – Marion 138 kV path to ECP** (0.20%) / EKPC (1.82%) / double circuit 345 kV and HTP*** (0.20%) / JCPL (3.78%) b2436.10 associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** ECP (89.85%) / HTP (2.18%) / PSEG (7.66%) / RE (0.31%) **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion

Annual Revenue Requirement

Convert the Marion -

Bayonne "L" 138 kV circuit to 345 kV and any

associated substation

upgrades

b2436.21

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	ransmission Ennancements Annual Revenue Requirement Responsible Customer(s)			
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)		
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.30%) / HTP (99.70%)		
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.33%) / HTP (99.67%)		

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North Ave - Airport 345 kV HTP*** (99.44%) / ECP** b2436.50 circuit and any associated (0.56%)substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit HTP*** (99.84%) / ECP** b2436.60 to Bayway, convert it to (0.16%)345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit HTP*** (99.92%) / ECP** b2436.70 and any associated (0.08%)substation upgrades **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL Relocate the overhead (2.62%) / ECP** (0.20%) / portion of Linden - North EKPC (1.82%) / HTP*** Ave "T" 138 kV circuit to b2436.81 (0.20%) / JCPL (3.78%) / ME Bayway, convert it to 345 (1.87%) / NEPTUNE* (0.42%) kV, and any associated / PECO (5.30%) / PENELEC substation upgrades (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (7.57%) / ECP** (0.02%) / PSEG (88.90%) / RE (3.51%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements A	nnual Revenue Requirement Responsible Customer(s)	
		Load-Ratio Share Allocation:	
		AEC (1.70%) / AEP (14.25%) /	
		APS (5.53%) / ATSI (8.09%) /	
		BGE (4.19%) / ComEd (13.43%)	
		/ Dayton (2.12%) / DEOK	
		(3.37%) / DL (1.77%) / Dominion	
	Convert the Bayway -	(12.39%) / DPL (2.62%) /	
	Linden "Z" 138 kV circuit	ECP** (0.20%) / EKPC (1.82%) /	
b2436.83	to 345 kV and any	HTP*** (0.20%) / JCPL (3.78%)	
02430.03	associated substation	/ ME (1.87%) / NEPTUNE*	
	upgrades	(0.42%) / PECO (5.30%) /	
	upgrades	PENELEC (1.84%) / PEPCO	
		(4.18%) / PPL (4.46%) / PSEG	
		(6.22%) / RE (0.25%)	
		DFAX Allocation:	
		HTP*** (7.56%) / ECP**	
		(0.02%) / PSEG (88.91%) / RE	
		(3.51%)	
	Convert the Bayway – Linden "W" 138 kV	Load-Ratio Share Allocation:	
		AEC (1.70%) / AEP (14.25%) /	
		APS (5.53%) / ATSI (8.09%) /	
		BGE (4.19%) / ComEd (13.43%)	
		/ Dayton (2.12%) / DEOK	
		(3.37%) / DL (1.77%) / Dominion	
		(12.39%) / DPL (2.62%) /	
b2436.84	circuit to 345 kV and any	ECP** (0.20%) / EKPC (1.82%) /	
02 130.01	associated substation	HTP*** (0.20%) / JCPL (3.78%)	
	upgrades	/ ME (1.87%) / NEPTUNE*	
	upgrades	(0.42%) / PECO (5.30%) /	
		PENELEC (1.84%) / PEPCO	
		(4.18%) / PPL (4.46%) / PSEG	
		(6.22%) / RE (0.25%)	
		DFAX Allocation:	
		ECP (0.02%) / HTP (99.98%)	
	gional Transmission System,	LLC	
**East Coast	t Power, L.L.C.		
***Hudson Transmission Partners LLC			

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion Convert the Bayway – (12.39%) / DPL (2.62%) / Linden "M" 138 kV ECP** (0.20%) / EKPC (1.82%) / b2436.85 circuit to 345 kV and any HTP*** (0.20%) / JCPL (3.78%) associated substation / ME (1.87%) / NEPTUNE* upgrades (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** ECP (0.02%) / HTP (99.98%) **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Relocate Farragut -Hudson "B" and "C" 345 ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) b2436.90 kV circuits to Marion 345 / ME (1.87%) / NEPTUNE* kV and any associated substation upgrades (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

xequired Tran	ismission Enhancements Annu	ial Revenue Requirement	Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades		HTP*** (1.99%) / ECP** (92.41%) / PSEG (5.38%) / RE (0.22%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades		ECP (72.43%) / HTP*** (27.57%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		ECP (0.35%) / HTP (3.28%) / PSEG (92.71%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		ECP (0.17%) / HTP (2.92%) / PSEG (93.23%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		HTP*** (10.53%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (85.78%) / RE (3.39%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		PSEG (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Ennancements Annu	iai Revenue Requiremen	
			Load-Ratio Share Allocation:
			AEC (1.70%) / AEP (14.25%) /
			APS (5.53%) / ATSI (8.09%) /
			BGE (4.19%) / ComEd (13.43%)
			/ Dayton (2.12%) / DEOK
			(3.37%) / DL (1.77%) / Dominion
			(12.39%) / DPL (2.62%) /
	Install an SVC at New		ECP** (0.20%) / EKPC (1.82%) /
b2633.3	Freedom 500 kV		HTP*** (0.20%) / JCPL (3.78%)
	substation		/ ME (1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) / PSEG
			(6.22%) / RE (0.25%)
			DFAX Allocation:
			AEC (0.01%) / DPL (99.98%) /
			JCPL (0.01%)
	Add a new 500 kV bay at		AEC (0.010/) / DDL (00.080/) /
b2633.4	Salem (Expansion of		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
	Salem substation)		JCFL (0.0178)
1.2622.5	Add a new 500/230 kV		AEC (0.01%) / DPL (99.98%) /
b2633.5	autotransformer at Salem		JCPL (0.01%)
			Load-Ratio Share Allocation:
			AEC (1.70%) / AEP (14.25%) /
			APS (5.53%) / ATSI (8.09%) /
			BGE (4.19%) / ComEd (13.43%)
	Implement high speed		/ Dayton (2.12%) / DEOK
	relaying utilizing OPGW		(3.37%) / DL (1.77%) / Dominion
	on Salem – Orchard 500		(12.39%) / DPL (2.62%) /
	kV, Hope Creek – New		ECP** (0.20%) / EKPC (1.82%) /
b2633.8	Freedom 500 kV, New		HTP*** (0.20%) / JCPL (3.78%)
	Freedom - Salem 500 kV,		/ ME (1.87%) / NEPTUNE*
	Hope Creek – Salem 500		(0.42%) / PECO (5.30%) /
	kV, and New Freedom –		PENELEC (1.84%) / PEPCO
	Orchard 500 kV lines		(4.18%) / PPL (4.46%) / PSEG
			(6.22%) / RE (0.25%)
			DFAX Allocation:
			AEC (0.01%) / DPL (99.98%) /
			JCPL (0.01%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

required Trai	ismission Emancements Annua	ar Revenue Requirement - Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required I ran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q- 1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		PSEG (100%)See sub-IDs for cost allocations

Public Service Electric and Gas Company (cont.)

Convert the R-1318 and O-1317 (Edison — Metuchen)	Required 1 rar	ismission Enhancements Annua	u Kevenue Kequirement	Responsible Customer(s)
December 20				
EV circuit (Brunswick				
Meadow Road Convert the R-1318 and Q- 1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Meadow Road - Pierson Ave) Convert the R-1318 and Q- 1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Pierson Ave - Metuchen)	<u>b2835.1</u>			<u>PSEG (100%)</u>
Convert the R-1318 and Q-1317 (Edison - Metuchen)		`		
1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Meadow Road - Pierson Ave)		,		
December 200 PSEG (100%) PSEG (100%)				
EV circuit (Meadow Road - Pierson Ave)		*		
Picrson Ave	<u>b2835.2</u>			<u>PSEG (100%)</u>
December 200				
1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Pierson Ave - Metuchen)				
Decided Heat Process Decided Heat Process				
EV circuit (Pierson Ave - Metuchen) Metuchen		· · · · · · · · · · · · · · · · · · ·		
Metuchen	<u>b2835.3</u>			PSEG (96.13%) / RE (3.87%)
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits				
1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits to 230 kV circuits				
Trenton 138 kV circuits to 230 kV circuits				
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen)	h2836	`		
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen)	02830	/		cost allocations
1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%) NEPTUNE (100%) NEPTUNE (100%) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%) NEPTUNE (100%)				
December 230 kV circuits to 230 kV circuits (Brunswick - Hunterglen) December 230 kV circuits (Brunswick - Hunterglen)				
230 kV circuits (Brunswick - Hunterglen) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)				
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)	<u>b2836.1</u>			<u>PSEG (100%)</u>
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)				
1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)		• /		
Description 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)				
230 kV circuits (Hunterglen - Trenton) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to NEPTUNE (100%) Example 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to NEPTUNE (100%) 230 kV circuits (Devils NEPTUNE (100%) Example 1372/D-13		· · · · · · · · · · · · · · · · · · ·		
- Trenton) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)	<u>b2836.2</u>			<u>NEPTUNE (100%)</u>
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		,		
1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)				
b2836.3 Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) NEPTUNE (100%) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)				
230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to NEPTUNE (100%) 230 kV circuits (Devils				
- Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils	<u>b2836.3</u>			<u>NEPTUNE (100%)</u>
Convert the N-1340 and T- 1372/D-1330 (Brunswick - b2836.4 Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)				
<u>b2836.4</u> <u>Trenton) 138 kV circuits to</u> <u>230 kV circuits (Devils</u> <u>NEPTUNE (100%)</u>				
b2836.4 Trenton) 138 kV circuits to 230 kV circuits (Devils	<u>b2836.4</u>			
230 kV circuits (Devils				
				<u>NEPTUNE (100%)</u>
Brook - Trenton)				
<u>Dioon Hemonj</u>		Brook - Trenton)		

Public Service Electric and Gas Company (cont.)

Required I rai	nsmission Enhancements Annua	a Revenue Requirement	Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		PSEG (100%)See sub-IDs for cost allocations
<u>b2837.1</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		<u>NEPTUNE (100%)</u>
<u>b2837.2</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		<u>NEPTUNE (100%)</u>
<u>b2837.3</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		<u>NEPTUNE (100%)</u>
<u>b2837.4</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		<u>NEPTUNE (7.65%) / PSEG</u> (88.71%) / RECO (3.64%)
<u>b2837.5</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		<u>NEPTUNE (6.18%) / PSEG</u> (90.12%) / RECO (3.70%)
<u>b2837.6</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		<u>NEPTUNE (100%)</u>

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
<u>b2837.7</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave F)		<u>NEPTUNE (100%)</u>
<u>b2837.8</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Ward Ave - Crosswicks Z)		<u>NEPTUNE (100%)</u>
<u>b2837.9</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Williams Z)		<u>NEPTUNE (9.14%) / PSEG</u> (87.28%) / RECO (3.58%)
<u>b2837.10</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Williams - Bustleton Z)		<u>NEPTUNE (7.50%) / PSEG</u> (88.85%) / RECO (3.65%)
<u>b2837.11</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Z)		NEPTUNE (5.89%) / PSEG (90.40%) / RECO (3.71%)

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of HTP (36.49%) / ECP** overhead line from Edison b2218 - Meadow Rd - Metuchen (63.51%)(Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 **PSEG**-ECP (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 **PSEG-ECP** (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 **PSEG-**ECP (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Convert the Bergen – Marion 138 kV path to ECP** (0.20%) / EKPC (1.82%) / double circuit 345 kV and HTP*** (0.20%) / JCPL (3.78%) b2436.10 associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** ECP (89.85%) / HTP (2.18%) / PSEG (7.66%) / RE (0.31%) **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Convert the Marion -Bayonne "L" 138 kV ECP** (0.20%) / EKPC (1.82%) / circuit to 345 kV and any HTP*** (0.20%) / JCPL (3.78%) b2436.21 associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (99.40%) / ECP** (0.60

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Public Service Electric and Gas Company (cont.)

Required Transmission Ennancements Annual Revenue Requirement Responsible Customer(s)			
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)	
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.30%) / HTP (99.70%)	
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.33%) / HTP (99.67%)	

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^{***}Hudson Transmission Partners, LLC

(3.51%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North Ave - Airport 345 kV HTP*** (99.44%) / ECP** b2436.50 circuit and any associated (0.56%)substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit HTP*** (99.84%) / ECP** b2436.60 to Bayway, convert it to (0.16%)345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit HTP*** (99.92%) / ECP** b2436.70 and any associated (0.08%)substation upgrades **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Relocate the overhead ECP** (0.20%) / EKPC (1.82%) / portion of Linden - North HTP*** (0.20%) / JCPL (3.78%) Ave "T" 138 kV circuit to b2436.81 Bayway, convert it to 345 / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / kV, and any associated substation upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (7.57%) / ECP** (0.02%) / PSEG (88.90%) / RE

^{*}Neptune Regional Transmission System, LLC

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Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements A	nnual Revenue Requirement Resp	onsible Customer(s)
		Load-Ratio	Share Allocation:
			o) / AEP (14.25%) /
		APS (5.53%	o) / ATSI (8.09%) /
		BGE (4.19%)	/ ComEd (13.43%)
		/ Dayton ((2.12%) / DEOK
			(1.77%) / Dominion
	Convert the Bayway -		/ DPL (2.62%) /
	Linden "Z" 138 kV circuit	`	%) / EKPC (1.82%) /
b2436.83	to 345 kV and any	`	0%) / JCPL (3.78%)
02430.63	associated substation	/ ME (1.87	%)/ NEPTUNE*
	upgrades	(0.42%) /	PECO (5.30%) /
	upgrades		(1.84%) / PEPCO
		(4.18%) / PP	L (4.46%) / PSEG
			/ RE (0.25%)
			Allocation:
		`	7.56%) / ECP**
		` '	SEG (88.91%) / RE
			3.51%)
			Share Allocation:
	Convert the Bayway – Linden "W" 138 kV	`	o) / AEP (14.25%) /
			o) / ATSI (8.09%) /
			/ ComEd (13.43%)
			(2.12%) / DEOK
		` ,	(1.77%) / Dominion
		,	/ DPL (2.62%) /
1010601			%) / EKPC (1.82%) /
b2436.84	circuit to 345 kV and any		0%) / JCPL (3.78%)
	associated substation	`	%)/ NEPTUNE*
	upgrades		PECO (5.30%) /
			(1.84%) / PEPCO
			L (4.46%) / PSEG
		(6.22%)	/ RE (0.25%)
		DFAX	Allocation:
			6) / HTP (99.98%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

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Public Service Electric and Gas Company (cont.)

Required Tran	equired Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)		
		Load-Ratio Share Allocation:	
		AEC (1.70%) / AEP (14.25%) /	
		APS (5.53%) / ATSI (8.09%) /	
		BGE (4.19%) / ComEd (13.43%)	
		/ Dayton (2.12%) / DEOK	
		(3.37%) / DL (1.77%) / Dominion	
	Convert the Bayway –	(12.39%) / DPL (2.62%) /	
	Linden "M" 138 kV	ECP** (0.20%) / EKPC (1.82%) /	
b2436.85	circuit to 345 kV and any	HTP*** (0.20%) / JCPL (3.78%)	
	associated substation	/ ME (1.87%) / NEPTUNE*	
	upgrades	(0.42%) / PECO (5.30%) /	
		PENELEC (1.84%) / PEPCO	
		(4.18%) / PPL (4.46%) / PSEG	
		(6.22%) / RE (0.25%)	
		DFAX Allocation:	
		ECP (0.02%) / HTP (99.98%)	
		Load-Ratio Share Allocation:	
	Relocate Farragut - Hudson "B" and "C" 345	AEC (1.70%) / AEP (14.25%) /	
		APS (5.53%) / ATSI (8.09%) /	
		BGE (4.19%) / ComEd (13.43%)	
		/ Dayton (2.12%) / DEOK	
		(3.37%) / DL (1.77%) / Dominion	
		(12.39%) / DPL (2.62%) /	
		ECP** (0.20%) / EKPC (1.82%) /	
b2436.90	kV circuits to Marion 345	HTP*** (0.20%) / JCPL (3.78%)	
	kV and any associated	/ ME (1.87%) / NEPTUNE*	
	substation upgrades	(0.42%) / PECO (5.30%) /	
		PENELEC (1.84%) / PEPCO	
		(4.18%) / PPL (4.46%) / PSEG	
		(6.22%) / RE (0.25%)	
		DFAX Allocation:	
		HTP (5.83%) / PSEG (90.60%) /	
		RE (3.57%)	
	Relocate the Hudson 2		
b2436.91	generation to inject into	PSEG (100%)	
02430.91	the 345 kV at Marion and	1 SEG (10070)	
	any associated upgrades		

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***Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

kequirea 1 rar	ismission Enhancements Annu	ial Revenue Requirement	Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation		HTP*** (1.99%) / ECP** (92.41%) / PSEG (5.38%) / RE (0.22%)
	upgrades New Bergen 345/138 kV		(0.2270)
b2437.11	transformer #1 and any associated substation upgrades		ECP (72.43%) / HTP*** (27.57%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		ECP (0.35%) / HTP (3.28%) / PSEG (92.71%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		ECP (0.17%) / HTP (2.92%) / PSEG (93.23%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		HTP*** (10.53%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (85.78%) / RE (3.39%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		PSEG (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

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Public Service Electric and Gas Company (cont.)

Kequiled 11ai	equired Transmission Ennancements Annual Revenue Requirement Responsible Customer(s)			
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		

Public Service Electric and Gas Company (cont.)

Required Trai	equired Transmission Ennancements Annual Revenue Requirement Responsible Customents)			
b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		

^{*}Neptune Regional Transmission System, LLC

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^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

ismission Enhancements Annua	al Revenue Requirement Responsible Customer(s)
Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
Install a 100 MVAR reactor	PSEG (100%) PSEG (100%)
Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)
	Implement changes to the tap settings for the two Salem units' step up transformers Implement changes to the tap settings for the Hope Creek unit's step up transformers Install a 350 MVAR reactor at Roseland 500 kV Install a 100 MVAR reactor at Bergen 230 kV Install a 150 MVAR reactor at Essex 230 kV Install a 200 MVAR reactor (variable) at Bergen 345 kV Install a 200 MVAR reactor (variable) at Bayway 345 kV Install a 100 MVAR reactor

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Public Service Electric and Gas Company (cont.)

Required Trai	ismission Enhancements Annua	il Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)

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Public Service Electric and Gas Company (cont.)

required Trai	nsmission Ennancements Annua	ii Revenue Requirement	Responsible Customer(s)
	Convert the R-1318 and		
b2835	Q1317 (Edison –		PSEG (100%)See sub-IDs for
02033	Metuchen) 138 kV circuits		cost allocations
	to one 230 kV circuit		
	Conver the R-1318 and Q-		
	1317 (Edison – Metuchen)		
b2835.1	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Brunswick –		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.2	138 kV circuits to one 230		PSEG (100%)
<u>02033.2</u>	kV circuit (Meadow Road -		1526 (16076)
	Pierson Ave)		
	Convert the R-1318 and O-		
	1317 (Edison - Metuchen)		
b2835.3	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
<u> </u>	kV circuit (Pierson Ave -		1 52 () 6.13 + 6) + 1 th (5.6 + 7.6)
	Metuchen)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick –		PSEG (100%)See sub-IDs for
b2836	Trenton) 138 kV circuits to		cost allocations
	230 kV circuits		<u> </u>
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.1	Trenton) 138 kV circuits to		PSEG (100%)
02030.1	230 kV circuits (Brunswick		1 SEG (10070)
	- Hunterglen)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.2	Trenton) 138 kV circuits to		NEPTUNE (100%)
02030.2	230 kV circuits (Hunterglen		<u>IVEL LOTAE (10070)</u>
	- Trenton)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
02030.3	230 kV circuits (Brunswick		<u>IVEL LOLVE (10070)</u>
	- Devils Brook)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
<u>b2836.4</u>	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Devils		1.22 1.31.23 (10070)
	Brook - Trenton)		
	DIOOK TICHOH)		

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Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Enhancements Annua	<u>ıl Revenue Requirement</u>	t Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		PSEG (100%)See sub-IDs for cost allocations
<u>b2837.1</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		<u>NEPTUNE (100%)</u>
<u>b2837.2</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		<u>NEPTUNE (100%)</u>
<u>b2837.3</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		<u>NEPTUNE (100%)</u>
<u>b2837.4</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		<u>NEPTUNE (7.65%) / PSEG</u> (88.71%) / RECO (3.64%)
<u>b2837.5</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		NEPTUNE (6.18%) / PSEG (90.12%) / RECO (3.70%)
<u>b2837.6</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		<u>NEPTUNE (100%)</u>

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Public Service Electric and Gas Company (cont.)

Required Train	nsmission Enhancements Annua	a Revenue Requirement	Responsible Customer(s)
<u>b2837.7</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave F)		<u>NEPTUNE (100%)</u>
<u>b2837.8</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Ward Ave - Crosswicks Z)		<u>NEPTUNE (100%)</u>
<u>b2837.9</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Williams Z)		NEPTUNE (9.14%) / PSEG (87.28%) / RECO (3.58%)
<u>b2837.10</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Williams - Bustleton Z)		NEPTUNE (7.50%) / PSEG (88.85%) / RECO (3.65%)
<u>b2837.11</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Z)		NEPTUNE (5.89%) / PSEG (90.40%) / RECO (3.71%)

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of HTP (36.49%) / ECP** overhead line from Edison b2218 - Meadow Rd - Metuchen (63.51%) (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 **PSEG**-ECP (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 **PSEG-ECP** (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 **PSEG-**ECP (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Convert the Bergen – Marion 138 kV path to ECP** (0.20%) / EKPC (1.82%) / double circuit 345 kV and HTP*** (0.20%) / JCPL (3.78%) b2436.10 associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** ECP (89.85%) / HTP (2.18%) / PSEG (7.66%) / RE (0.31%) **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Convert the Marion -ECP** (0.20%) / EKPC (1.82%) / Bayonne "L" 138 kV circuit to 345 kV and any HTP*** (0.20%) / JCPL (3.78%) b2436.21 associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (99.40%) / ECP** (0.60%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

<u>kequirea 1 rar</u>	equired Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)				
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)			
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.30%) / HTP (99.70%)			
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.33%) / HTP (99.67%)			

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

(3.51%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North Ave - Airport 345 kV HTP*** (99.44%) / ECP** b2436.50 circuit and any associated (0.56%)substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit HTP*** (99.84%) / ECP** b2436.60 to Bayway, convert it to (0.16%)345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit HTP*** (99.92%) / ECP** b2436.70 and any associated (0.08%)substation upgrades **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Relocate the overhead ECP** (0.20%) / EKPC (1.82%) / portion of Linden - North HTP*** (0.20%) / JCPL (3.78%) Ave "T" 138 kV circuit to b2436.81 Bayway, convert it to 345 / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / kV, and any associated substation upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (7.57%) / ECP** (0.02%) / PSEG (88.90%) / RE

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements A	nnual Revenue Requirement Resp	onsible Customer(s)
		Load-Ratio	Share Allocation:
			o) / AEP (14.25%) /
		APS (5.53%	o) / ATSI (8.09%) /
		BGE (4.19%)	/ ComEd (13.43%)
		/ Dayton ((2.12%) / DEOK
			(1.77%) / Dominion
	Convert the Bayway -		/ DPL (2.62%) /
	Linden "Z" 138 kV circuit	`	%) / EKPC (1.82%) /
b2436.83	to 345 kV and any	`	0%) / JCPL (3.78%)
02430.63	associated substation	/ ME (1.87	%)/ NEPTUNE*
	upgrades	(0.42%) /	PECO (5.30%) /
	upgrades		(1.84%) / PEPCO
		(4.18%) / PP	L (4.46%) / PSEG
			/ RE (0.25%)
			Allocation:
		`	7.56%) / ECP**
		` '	SEG (88.91%) / RE
			3.51%)
			Share Allocation:
		`	o) / AEP (14.25%) /
			o) / ATSI (8.09%) /
			/ ComEd (13.43%)
			(2.12%) / DEOK
		` ,	(1.77%) / Dominion
	Convert the Bayway –	,	/ DPL (2.62%) /
1010601	Linden "W" 138 kV		%) / EKPC (1.82%) /
b2436.84	circuit to 345 kV and any		0%) / JCPL (3.78%)
	associated substation	`	%)/ NEPTUNE*
	upgrades		PECO (5.30%) /
			(1.84%) / PEPCO
			L (4.46%) / PSEG
		(6.22%)	/ RE (0.25%)
		DFAX	Allocation:
			6) / HTP (99.98%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements A	nnual Revenue Requiren	nent Responsible Customer(s)
b2436.85	Convert the Bayway – Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
b2436.90	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades		ECP (0.02%) / HTP (99.98%) Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
			HTP (5.83%) / PSEG (90.60%) / RE (3.57%)
b2436.91	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated upgrades		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

equiled Trai	ismission enhancements Annu	iai Revenue Requiremen	t Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades		HTP*** (1.99%) / ECP** (92.41%) / PSEG (5.38%) / RE (0.22%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades		ECP (72.43%) / HTP*** (27.57%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		ECP (0.35%) / HTP (3.28%) / PSEG (92.71%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		ECP (0.17%) / HTP (2.92%) / PSEG (93.23%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		HTP*** (10.53%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (85.78%) / RE (3.39%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		PSEG (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Kequiled 11ai	equired Transmission Ennancements Annual Revenue Requirement Responsible Customer(s)			
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		

Public Service Electric and Gas Company (cont.)

Required Trai	ismission emancements Anni	uai Revenue Requirement Responsible Customer(s)
b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	ismission enhancements Annua	a Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%) PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

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^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA		PSEG (100%)
02/12	breaker		1 SEG (10070)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA		PSEG (100%)
02/13	breaker		1523 (10070)
b2722	Reconductor the 1 mile Bergen – Bergen GT		PSEG (100%)
02722	138 kV circuit (B-1302)		1 SEG (10070)
b2755	Build a third 345 kV source		PSEG (100%)
	into Newark Airport		
b2810.1	Install second 230/69 kV		PSEG (100%)
	transformer at Cedar Grove		
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great		PSEG (100%)
02010.2	Notch		1 5EG (10070)
b2811	Build 69 kV circuit from		PSEG (100%)
02011	Locust Street to Delair		1523 (10070)
1 2012	Construct River Road to		PGEG (1000/)
b2812	Tonnelle Avenue 69kV Circuit		PSEG (100%)
	Install 2X50 MVAR shunt		
b2825.1	reactors at Kearny 230 kV		PSEG (100%)
	substation		
	Increase the size of the Hudson 230 kV, 2X50		
b2825.2	MVAR shunt reactors to		PSEG (100%)
	2X100 MVAR		
	Install 2X100 MVAR shunt		
b2825.3	reactors at Bayway 345 kV		PSEG (100%)
	substation Install 2X100 MVAR shunt		
b2825.4	reactors at Linden 345 kV		PSEG (100%)
02023.4	substation		FSEG (10070)
	Convert the R-1318 and		
1,000.5	Q1317 (Edison –		PSEG (100%)See sub-IDs for
b2835	Metuchen) 138 kV circuits		cost allocations
	to one 230 kV circuit		

Public Service Electric and Gas Company (cont.)

Required Tran	smission Enhancements Annua	ıl Revenue Requirement	Responsible Customer(s)
<u>b2835.1</u>	Conver the R-1318 and Q- 1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit (Brunswick – Meadow Road)		PSEG (100%)
<u>b2835.2</u>	Convert the R-1318 and Q-1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Meadow Road - Pierson Ave)		PSEG (100%)
<u>b2835.3</u>	Convert the R-1318 and Q- 1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Pierson Ave - Metuchen)		PSEG (96.13%) / RE (3.87%)
b2836	Convert the N-1340 and T- 1372/D-1330 (Brunswick – Trenton) 138 kV circuits to 230 kV circuits		PSEG (100%)See sub-IDs for cost allocations
<u>b2836.1</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen)		PSEG (100%)
<u>b2836.2</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)		<u>NEPTUNE (100%)</u>
<u>b2836.3</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		<u>NEPTUNE (100%)</u>
<u>b2836.4</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils Brook - Trenton)		<u>NEPTUNE (100%)</u>

Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Enhancements Annua	<u>il Revenue Requirement</u>	Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		PSEG (100%)See sub-IDs for cost allocations
<u>b2837.1</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		<u>NEPTUNE (100%)</u>
<u>b2837.2</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		<u>NEPTUNE (100%)</u>
<u>b2837.3</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		<u>NEPTUNE (100%)</u>
<u>b2837.4</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		NEPTUNE (7.65%) / PSEG (88.71%) / RECO (3.64%)
<u>b2837.5</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		NEPTUNE (6.18%) / PSEG (90.12%) / RECO (3.70%)
<u>b2837.6</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		<u>NEPTUNE (100%)</u>

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	t Responsible Customer(s)
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.7	(Trenton - Burlington) 138		NEPTUNE (100%)
02837.7	kV circuits to 230 kV		<u>NEPTONE (100%)</u>
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.8	(Trenton - Burlington) 138		NEDTINE (100%)
02837.8	kV circuits to 230 kV		<u>NEPTUNE (100%)</u>
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1-2027.0	(Trenton - Burlington) 138		<u>NEPTUNE (9.14%) / PSEG</u>
<u>b2837.9</u>	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		
	Williams Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1-2027 10	(Trenton - Burlington) 138		<u>NEPTUNE (7.50%) / PSEG</u>
<u>b2837.10</u>	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1,2027 11	(Trenton - Burlington) 138		<u>NEPTUNE (5.89%) / PSEG</u>
<u>b2837.11</u>	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		
	Burlington Z)		
	Build new 138/26 kV		
b2870	Newark GIS station in a		
	building (layout #1A)		
	located adjacent to the		PSEG (100%)
	existing Newark Switch and		` '
	demolish the existing		
	Newark Switch		

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of overhead line from Edison b2218 PSEG (100%) - Meadow Rd - Metuchen (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at PSEG (100%) b2248 Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV PSEG (100%) b2291 substation on the Raritian River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) Bridgewater Switching Station **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bergen – (2.50%) / Dominion (12.86%) / Marion 138 kV path to EKPC (1.87%) / JCPL (3.74%) / b2436.10 double circuit 345 kV and ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK Convert the Marion -(3.29%) / DL (1.75%) / DPL Bayonne "L" 138 kV (2.50%) / Dominion (12.86%) / b2436.21 circuit to 345 kV and any EKPC (1.87%) / JCPL (3.74%) / associated substation ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:**

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Emilancements Annual Revenue Requirement Responsible Customer(s)			
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)	
		DFAX Allocation: PSEG (100%)	
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)	
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)	

^{*}Neptune Regional Transmission System, LLC

Responsible Customer(s)

AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK

(3.29%) / DL (1.75%) / DPL

(2.50%) / Dominion (12.86%) /

EKPC (1.87%) / JCPL (3.74%) /

ME (1.90%) / NEPTUNE*

(0.44%) / PECO (5.34%) /

PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:**PSEG (96.13%) / RE (3.87%)

Public Service Electric and Gas Company (cont.)

Construct a new North

Required Transmission Enhancements

Ave - Airport 345 kV b2436.50 PSEG (100%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit b2436.60 to Bayway, convert it to PSEG (96.13%) / RE (3.87%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit b2436.70 PSEG (100%) and any associated substation upgrades **Load-Ratio Share Allocation:**

Annual Revenue Requirement

Relocate the overhead

portion of Linden - North

Ave "T" 138 kV circuit to

Bayway, convert it to 345

kV, and any associated

substation upgrades

b2436.81

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -Linden "Z" 138 kV circuit (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / b2436.83 to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway – (2.50%) / Dominion (12.86%) / Linden "W" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.84 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -(2.50%) / Dominion (12.86%) / Linden "M" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.85 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Relocate Farragut -(2.50%) / Dominion (12.86%) / Hudson "B" and "C" 345 EKPC (1.87%) / JCPL (3.74%) / kV circuits to Marion 345 b2436.90 ME (1.90%) / NEPTUNE* kV and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annu	al Revenue Requirement	Responsible Customer(s)
	New Bergen 345/230 kV		
b2437.10	transformer and any		PSEG (96.13%) / RE (3.87%)
02437.10	associated substation		1 SEG (70.1370) / RE (3.0770)
	upgrades		
	New Bergen 345/138 kV		
b2437.11	transformer #1 and any		PSEG (100%)
02437.11	associated substation		1 SEG (10070)
	upgrades		
	New Bayway 345/138 kV		
b2437.20	transformer #1 and any		PSEG (96.13%) / RE (3.87%)
02437.20	associated substation		1 SEG (70.1370) / RE (3.8770)
	upgrades		
	New Bayway 345/138 kV		
b2437.21	transformer #2 and any		PSEG (96.13%) / RE (3.87%)
02437.21	associated substation		1 3EG (30.1370) / KE (3.8770)
	upgrades		
	New Linden 345/230 kV		
b2437.30	transformer and any	DCEC (06 120/) / DE	PSEG (96.13%) / RE (3.87%)
02437.30	associated substation		F SEG (90.1370) / KE (3.8770)
	upgrades		
	New Bayonne 345/69 kV		
b2437.33	transformer and any	DSEC (100%	PSEG (100%)
02437.33	associated substation		1 3EG (10070)
	upgrades		
1 2 4 2 0	Install two reactors at		DCEC (100 000/)
b2438	Tosco 230 kV		PSEG (100.00%)
	Replace the Tosco 138kV		
b2439	breaker 'CB1/2 (CBT)'		PSEG (100.00%)
	with 63kA		
	Rebuild Athenia 138 kV to		
b2474	80kA		PSEG (100%)
	Install a 100 MVAR 230		
b2589	kV shunt reactor at Mercer		PSEG (100%)
	station		r SEG (10070)
	Install two 75 MVAR 230		
b2590			DSEC (1000/)
	kV capacitors at Sewaren		PSEG (100%)
	station		

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

required Trui	Ishnission Emiancements Ami	iai Revenue Requirement Responsible Customer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

Public Service Electric and Gas Company (cont.)

required Tru	isilission Ellianeemens Aim	dai Revenue Requirement Responsible Customer(s)
b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	ismission Enhancements Annua	al Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%) PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Replace the Bergen 138 kV		
b2712	'40P'breaker with 80kA		PSEG (100%)
	breaker		
	Replace the Bergen 138 kV		
b2713	'90P' breaker with 80kA		PSEG (100%)
	breaker		
	Reconductor the 1 mile		
b2722	Bergen – Bergen GT		PSEG (100%)
	138 kV circuit (B-1302)		
1.2755	Build a third 345 kV source		DCEC (1000/)
b2755	into Newark Airport		PSEG (100%)
	Install second 230/69 kV		
b2810.1	transformer at Cedar Grove		PSEG (100%)
	Build a new 69 kV circuit		
b2810.2	from Cedar Grove to Great		PSEG (100%)
02010.2	Notch		1 SEG (10070)
	Build 69 kV circuit from		
b2811	Locust Street to Delair		PSEG (100%)
	Construct River Road to		
b2812	Tonnelle Avenue 69kV		DSEC (100%)
02012	Circuit		PSEG (100%)
	Install 2X50 MVAR shunt		
b2825.1	reactors at Kearny 230 kV		PSEG (100%)
02023.1	substation		1 SEG (10070)
	Increase the size of the		
	Hudson 230 kV, 2X50		
b2825.2	MVAR shunt reactors to		PSEG (100%)
	2X100 MVAR		
	Install 2X100 MVAR shunt		
b2825.3	reactors at Bayway 345 kV		PSEG (100%)
	substation		
b2825.4	Install 2X100 MVAR shunt		
	reactors at Linden 345 kV		PSEG (100%)
	substation		
b2835	Convert the R-1318 and		
	Q1317 (Edison –		PSEG (100%)See sub-IDs for
	Metuchen) 138 kV circuits		cost allocations
	to one 230 kV circuit		

Public Service Electric and Gas Company (cont.)

Convert the R-1318 and O_1317 (Edison — Metuchen)	Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
138 kV circuits to one 230 kV circuits to one 230 kV circuit (Brunswick – Meadow Road) PSEG (100%)		-		
Letter L		1317 (Edison – Metuchen)		
Meadow Road Convert the R-1318 and Q-1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Meadow Road - Pierson Ave)	<u>b2835.1</u>	138 kV circuits to one 230		<u>PSEG (100%)</u>
Convert the R-1318 and Q-1317 (Edison - Metuchen)		<u>kV circuit (Brunswick – </u>		
1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Meadow Road - Pierson Ave)		Meadow Road)		
December 2007 PSEG (100%) PSEG (100%)		Convert the R-1318 and Q-		
EV circuit (Meadow Road - Pierson Ave)		1317 (Edison - Metuchen)		
Dierson Ave Convert the R-1318 and Q-1317 (Edison - Metuchen)	<u>b2835.2</u>	138 kV circuits to one 230		<u>PSEG (100%)</u>
December 200 Dece		-		
1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Pierson Ave - Metuchen)		<u>Pierson Ave</u>)		
December 230 PSEG (96.13%) / RE (3.87%)		Convert the R-1318 and Q-		
EV circuit (Pierson Ave - Metuchen) Metuchen		1317 (Edison - Metuchen)		
Metuchen Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits to 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils to 230 kV cir	<u>b2835.3</u>	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen)		kV circuit (Pierson Ave -		
b2836				
Decision 138 kV circuits to 230 kV circuits 230 kV circuits		Convert the N-1340 and T-		
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen)	b2836	`		
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen)	02830	,		cost allocations
1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%) NEPTUNE (100%)				
December 230 kV circuits to 230 kV circuits (Brunswick - Hunterglen) December 230 kV circuits (Brunswick - Hunterglen)		Convert the N-1340 and T-		
230 kV circuits (Brunswick - Hunterglen) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)		1372/D-1330 (Brunswick -		
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)	<u>b2836.1</u>	Trenton) 138 kV circuits to		<u>PSEG (100%)</u>
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)				
1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)		<u>- Hunterglen)</u>		
b2836.2 Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton) NEPTUNE (100%) b2836.3 Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) NEPTUNE (100%) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)		Convert the N-1340 and T-		
230 kV circuits (Hunterglen - Trenton) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to NEPTUNE (100%) Example 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%) Example 230 kV circuits (Devils		1372/D-1330 (Brunswick -		
	<u>b2836.2</u>			<u>NEPTUNE (100%)</u>
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)				
1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)		<u>- Trenton)</u>		
b2836.3 Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) NEPTUNE (100%) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)				
230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - b2836.4 Trenton) 138 kV circuits to 230 kV circuits (Devils	<u>b2836.3</u>			
- Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils		Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)				
<u>b2836.4</u> <u>Trenton) 138 kV circuits to</u> <u>230 kV circuits (Devils</u> <u>NEPTUNE (100%)</u>				
b2836.4 Trenton) 138 kV circuits to 230 kV circuits (Devils	<u>b2836.4</u>			
230 kV circuits (Devils		•		
				<u>NEPTUNE (100%)</u>
Brook - Trenton)				
DIOOK - TICHIOH		Brook - Trenton)		

Public Service Electric and Gas Company (cont.)

Kcquiica 11ai	asmission Ennancements Annua	<u>ii Kevenue Kequitemen</u>	it Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		PSEG (100%)See sub-IDs for cost allocations
<u>b2837.1</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		<u>NEPTUNE (100%)</u>
<u>b2837.2</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		<u>NEPTUNE (100%)</u>
<u>b2837.3</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		<u>NEPTUNE (100%)</u>
<u>b2837.4</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		NEPTUNE (7.65%) / PSEG (88.71%) / RECO (3.64%)
<u>b2837.5</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		NEPTUNE (6.18%) / PSEG (90.12%) / RECO (3.70%)
<u>b2837.6</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		<u>NEPTUNE (100%)</u>

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	t Responsible Customer(s)
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.7	(Trenton - Burlington) 138		NEPTUNE (100%)
02837.7	kV circuits to 230 kV		<u>NEPTONE (100%)</u>
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.8	(Trenton - Burlington) 138		NEDTINE (100%)
02837.8	kV circuits to 230 kV		<u>NEPTUNE (100%)</u>
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1-2027.0	(Trenton - Burlington) 138		<u>NEPTUNE (9.14%) / PSEG</u>
<u>b2837.9</u>	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		
	Williams Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1-2027 10	(Trenton - Burlington) 138		<u>NEPTUNE (7.50%) / PSEG</u>
<u>b2837.10</u>	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1,2027 11	(Trenton - Burlington) 138		<u>NEPTUNE (5.89%) / PSEG</u>
<u>b2837.11</u>	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		
	Burlington Z)		
	Build new 138/26 kV		
b2870	Newark GIS station in a		
	building (layout #1A)		
	located adjacent to the		PSEG (100%)
	existing Newark Switch and		` '
	demolish the existing		
	Newark Switch		

Version: 16.2.0 Effective Date: February 15, 2018

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of overhead line from Edison b2218 PSEG (100%) - Meadow Rd - Metuchen (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV PSEG (100%) b2291 substation on the Raritian River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St

substation

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(6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) Bridgewater Switching Station **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bergen – (2.50%) / Dominion (12.86%) / Marion 138 kV path to EKPC (1.87%) / JCPL (3.74%) / b2436.10 double circuit 345 kV and ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK Convert the Marion -(3.29%) / DL (1.75%) / DPL Bayonne "L" 138 kV (2.50%) / Dominion (12.86%) / b2436.21 circuit to 345 kV and any EKPC (1.87%) / JCPL (3.74%) / associated substation ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Eminancements Annual Revenue Requirement Responsible Customer(s)			
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)	
		PSEG (100%)	
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)	
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)	

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

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b2436.50	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades		PSEG (100%)
b2436.60	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2436.70	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades		PSEG (100%)
b2436.81	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -Linden "Z" 138 kV circuit (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / b2436.83 to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway – (2.50%) / Dominion (12.86%) / Linden "W" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.84 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -(2.50%) / Dominion (12.86%) / Linden "M" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.85 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Relocate Farragut -(2.50%) / Dominion (12.86%) / Hudson "B" and "C" 345 EKPC (1.87%) / JCPL (3.74%) / kV circuits to Marion 345 b2436.90 ME (1.90%) / NEPTUNE* kV and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annu	al Revenue Requirement	Responsible Customer(s)
	New Bergen 345/230 kV		
b2437.10	transformer and any		PSEG (96.13%) / RE (3.87%)
	associated substation		1 SEG (70.1370) / RE (3.0770)
	upgrades		
	New Bergen 345/138 kV		
b2437.11	transformer #1 and any		PSEG (100%)
02437.11	associated substation		1 SEG (10070)
	upgrades		
	New Bayway 345/138 kV		
b2437.20	transformer #1 and any		PSEG (96.13%) / RE (3.87%)
02437.20	associated substation		1 SEG (70.1370) / RE (3.8770)
	upgrades		
	New Bayway 345/138 kV		
b2437.21	transformer #2 and any		PSEG (96.13%) / RE (3.87%)
02437.21	associated substation		1 3EG (30.1370) / KE (3.8770)
	upgrades		
	New Linden 345/230 kV		
b2437.30	transformer and any		PSEG (96.13%) / RE (3.87%)
02437.30	associated substation		1 3EG (30.1370) / KE (3.8770)
	upgrades		
	New Bayonne 345/69 kV		
b2437.33	transformer and any		PSEG (100%)
02437.33	associated substation		1 SEG (10070)
	upgrades		
b2438	Install two reactors at		DCEC (100 000/)
02438	Tosco 230 kV		PSEG (100.00%)
	Replace the Tosco 138kV		
b2439	breaker 'CB1/2 (CBT)'		PSEG (100.00%)
	with 63kA		,
10:-:	Rebuild Athenia 138 kV to		2226 (1222)
b2474	80kA		PSEG (100%)
	Install a 100 MVAR 230		
b2589	kV shunt reactor at Mercer		PSEG (100%)
	station		1 SEG (10070)
	Install two 75 MVAR 230		
h2500	kV capacitors at Sewaren		PSEG (100%)
b2590	station		1 SEG (10070)
	Station		

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

required Trui	Ishnission Emancements Ami	iai Revenue Requirement - Responsible Customer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

Public Service Electric and Gas Company (cont.)

required 11d	required Transmission Emigreements Armual Revenue requirement (responsible editionics)				
b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)			
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)			

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	ismission Enhancements Annua	al Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Enhancements Annua	il Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		PSEG (100%)See sub-IDs for cost allocations

Public Service Electric and Gas Company (cont.)

C 41 P 1210 10	
Conver the R-1318 and Q-	
1317 (Edison – Metuchen)	
<u>b2835.1</u> <u>138 kV circuits to one 230</u> <u>PSEG (100%)</u>	<u>6)</u>
<u>kV circuit (Brunswick – </u>	
Meadow Road)	
Convert the R-1318 and Q-	
1317 (Edison - Metuchen)	
<u>b2835.2</u> <u>138 kV circuits to one 230</u> <u>PSEG (100%)</u>	<u>6)</u>
<u>kV circuit (Meadow Road -</u>	
<u>Pierson Ave)</u>	
Convert the R-1318 and Q-	
1317 (Edison - Metuchen)	
<u>b2835.3</u> <u>138 kV circuits to one 230</u> <u>PSEG (96.13%) / RI</u>	E (3.87%)
<u>kV circuit (Pierson Ave -</u>	
Metuchen)	
Convert the N-1340 and T-	
b2836 1372/D-1330 (Brunswick – PSEG (100%)See su	
Trenton) 138 kV circuits to cost allocation	<u>ons</u>
230 kV circuits	
Convert the N-1340 and T-	
<u>1372/D-1330 (Brunswick -</u>	
<u>b2836.1</u> <u>Trenton) 138 kV circuits to</u> <u>PSEG (100%</u>	<u>6)</u>
230 kV circuits (Brunswick	
<u>- Hunterglen)</u>	
Convert the N-1340 and T-	
<u>1372/D-1330 (Brunswick -</u>	
b2836.2 Trenton) 138 kV circuits to NEPTUNE (10	00%)
230 kV circuits (Hunterglen	
<u>- Trenton</u>)	
Convert the N-1340 and T-	
<u>1372/D-1330 (Brunswick -</u>	
b2836.3 Trenton) 138 kV circuits to NEPTUNE (10	<u>)0%)</u>
230 kV circuits (Brunswick	
<u>- Devils Brook)</u>	
Convert the N-1340 and T-	
<u>1372/D-1330 (Brunswick -</u>	
<u>b2836.4</u> <u>Trenton) 138 kV circuits to</u> <u>NEPTUNE (10</u>	00%)
230 kV circuits (Devils	
Brook - Trenton)	

Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Enhancements Annua	<u>ii Revenue Requiremen</u>	t Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		PSEG (100%)See sub-IDs for cost allocations
<u>b2837.1</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		<u>NEPTUNE (100%)</u>
<u>b2837.2</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		<u>NEPTUNE (100%)</u>
<u>b2837.3</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		<u>NEPTUNE (100%)</u>
<u>b2837.4</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		NEPTUNE (7.65%) / PSEG (88.71%) / RECO (3.64%)
<u>b2837.5</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		<u>NEPTUNE (6.18%) / PSEG</u> (90.12%) / RECO (3.70%)
<u>b2837.6</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		<u>NEPTUNE (100%)</u>

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	t Responsible Customer(s)
	Convert the F-1358/Z-1326		
1 2027 7	and K-1363/Y-1325		
	(Trenton - Burlington) 138		NIEDTUNIE (1000/)
<u>b2837.7</u>	kV circuits to 230 kV		<u>NEPTUNE (100%)</u>
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.8	(Trenton - Burlington) 138		NEPTUNE (100%)
02037.0	kV circuits to 230 kV		<u>NEFTONE (10070)</u>
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.9	(Trenton - Burlington) 138		<u>NEPTUNE (9.14%) / PSEG</u>
02837.9	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		
	<u>Williams Z)</u>		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.10	(Trenton - Burlington) 138		<u>NEPTUNE (7.50%) / PSEG</u>
02037.10	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.11	(Trenton - Burlington) 138		<u>NEPTUNE (5.89%) / PSEG</u>
02037.11	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		
	Burlington Z)		
	Build new 138/26 kV		
	Newark GIS station in a		
	building (layout #1A)		
b2870	located adjacent to the		PSEG (100%)
	existing Newark Switch and		
	demolish the existing		
	Newark Switch		

Public Service Electric and Gas Company (cont.)

Required 11ai		ai Revenue Requirement	Responsible Customer(s)
b2933	Third Source for Springfield Rd. and Stanley Terrace Stations		PSEG (100%)See sub-IDs for cost allocations
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.3	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace		PSEG (100%)
<u>b2933.31</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		<u>NEPTUNE (100%)</u>
<u>b2933.32</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		<u>PSEG (100%)</u>
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)
b2935.3	Convert Runnemede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemede 69 kV		PSEG (100%)

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tran	nsmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metucher (Q 1317)		PSEG (100%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors a Stanley Terrace 230 kV	t	PSEG (100%)
b2244	50 MVAR reactor at Wes Orange 230 kV	t	PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox' Corner 230 kV	S	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV PSEG (100%) b2291 substation on the Raritian River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

DFAX Allocation: PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) Bridgewater Switching Station **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bergen – (2.50%) / Dominion (12.86%) / Marion 138 kV path to EKPC (1.87%) / JCPL (3.74%) / b2436.10 double circuit 345 kV and ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK Convert the Marion -(3.29%) / DL (1.75%) / DPL Bayonne "L" 138 kV (2.50%) / Dominion (12.86%) / b2436.21 circuit to 345 kV and any EKPC (1.87%) / JCPL (3.74%) / associated substation ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

110 1001	isitiissioii Lillianeemens Ailin	dar Revende Requirement Responsible Customer(s)
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
		DFAX Allocation: PSEG (100%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Enhancements	Annual Revenue Requiren	nent Responsible Customer(s)
b2436.50	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades		PSEG (100%)
b2436.60	Relocate the underground portion of North Ave - Linden "T" 138 kV circui to Bayway, convert it to 345 kV, and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2436.70	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades		PSEG (100%)
b2436.81	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -Linden "Z" 138 kV circuit (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / b2436.83 to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway – (2.50%) / Dominion (12.86%) / Linden "W" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.84 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -(2.50%) / Dominion (12.86%) / Linden "M" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.85 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Relocate Farragut -(2.50%) / Dominion (12.86%) / Hudson "B" and "C" 345 EKPC (1.87%) / JCPL (3.74%) / kV circuits to Marion 345 b2436.90 ME (1.90%) / NEPTUNE* kV and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	ismission Enhancements Anni	ial Revenue Requirement	Responsible Customer(s)
	New Bergen 345/230 kV		
b2437.10	transformer and any		PSEG (96.13%) / RE (3.87%)
	associated substation		F SEG (90.1370) / RE (3.8770)
	upgrades		
	New Bergen 345/138 kV		
b2437.11	transformer #1 and any		PSEG (100%)
02437.11	associated substation		1 SEG (10070)
	upgrades		
	New Bayway 345/138 kV		
b2437.20	transformer #1 and any		PSEG (96.13%) / RE (3.87%)
02437.20	associated substation		1 SEG (90.1370) / RE (3.8770)
	upgrades		
	New Bayway 345/138 kV		
b2437.21	transformer #2 and any		PSEG (96.13%) / RE (3.87%)
02437.21	associated substation		FSEG (90.1370) / RE (3.8770)
	upgrades		
	New Linden 345/230 kV		
b2437.30	transformer and any		DSEC (06 120/) / DE (2 970/)
02437.30	associated substation		PSEG (96.13%) / RE (3.87%)
	upgrades		
	New Bayonne 345/69 kV		
b2437.33	transformer and any		PSEG (100%)
02437.33	associated substation		FSEG (100%)
	upgrades		
1.2420	Install two reactors at		DCEC (100 000/)
b2438	Tosco 230 kV		PSEG (100.00%)
	Replace the Tosco 138kV		
b2439	breaker 'CB1/2 (CBT)'		PSEG (100.00%)
	with 63kA		
10171	Rebuild Athenia 138 kV to		PGEG (1222)
b2474	80kA		PSEG (100%)
	Install a 100 MVAR 230		
b2589	kV shunt reactor at Mercer		PSEG (100%)
02389	station		1 SEG (10070)
	Install two 75 MVAR 230		
b2590	kV capacitors at Sewaren		PSEG (100%)
b2590	station		1 SEG (10070)
	Station		

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

required Trui		iai Nevenue Requirement Responsible Customer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

Public Service Electric and Gas Company (cont.)

Required Transmission Emiliancements — Affilian Revenue Requirement — Responsible Customer(s)			
62633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8 F	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	ismission emancements Annua	ii Revenue Requirement - Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%) PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Enhancements Annua	il Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		PSEG (100%)See sub-IDs for cost allocations

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Conver the R-1318 and Q-		
<u>b2835.1</u>	1317 (Edison – Metuchen)		
	138 kV circuits to one 230		<u>PSEG (100%)</u>
	kV circuit (Brunswick –		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
<u>b2835.2</u>	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Meadow Road -		
	Pierson Ave)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.3	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
	kV circuit (Pierson Ave -		
	Metuchen)		
	Convert the N-1340 and T-		
1.2026	1372/D-1330 (Brunswick –		PSEG (100%)See sub-IDs for
b2836	Trenton) 138 kV circuits to		cost allocations
	230 kV circuits		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.1	Trenton) 138 kV circuits to		PSEG (100%)
	230 kV circuits (Brunswick		
	- Hunterglen)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.2	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Hunterglen		
	- Trenton)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
<u>b2836.3</u>	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Brunswick		
	- Devils Brook)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
<u>b2836.4</u>	Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
	230 kV circuits (Devils		
	Brook - Trenton)		
	·	<u> </u>	

Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Enhancements Annua	<u>ii Revenue Requiremen</u>	t Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		PSEG (100%)See sub-IDs for cost allocations
<u>b2837.1</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		<u>NEPTUNE (100%)</u>
<u>b2837.2</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		<u>NEPTUNE (100%)</u>
<u>b2837.3</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		<u>NEPTUNE (100%)</u>
<u>b2837.4</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		NEPTUNE (7.65%) / PSEG (88.71%) / RECO (3.64%)
<u>b2837.5</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		<u>NEPTUNE (6.18%) / PSEG</u> (90.12%) / RECO (3.70%)
<u>b2837.6</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		<u>NEPTUNE (100%)</u>

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	t Responsible Customer(s)
	Convert the F-1358/Z-1326		
1 2027 7	and K-1363/Y-1325		
	(Trenton - Burlington) 138		NIEDTUNIE (1000/)
<u>b2837.7</u>	kV circuits to 230 kV		<u>NEPTUNE (100%)</u>
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.8	(Trenton - Burlington) 138		NEPTUNE (100%)
02037.0	kV circuits to 230 kV		<u>NEFTONE (10070)</u>
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.9	(Trenton - Burlington) 138		<u>NEPTUNE (9.14%) / PSEG</u>
02837.9	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		
	<u>Williams Z)</u>		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.10	(Trenton - Burlington) 138		<u>NEPTUNE (7.50%) / PSEG</u>
02037.10	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.11	(Trenton - Burlington) 138		<u>NEPTUNE (5.89%) / PSEG</u>
02037.11	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		
	Burlington Z)		
	Build new 138/26 kV		
	Newark GIS station in a		
	building (layout #1A)		
b2870	located adjacent to the		PSEG (100%)
	existing Newark Switch and		
	demolish the existing		
	Newark Switch		

Public Service Electric and Gas Company (cont.)

Required 11ai		ai Revenue Requirement	Responsible Customer(s)
b2933	Third Source for Springfield Rd. and Stanley Terrace Stations		PSEG (100%)See sub-IDs for cost allocations
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.3	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace		PSEG (100%)
<u>b2933.31</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		<u>NEPTUNE (100%)</u>
<u>b2933.32</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		<u>PSEG (100%)</u>
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)
b2935.3	Convert Runnemede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemede 69 kV		PSEG (100%)

Public Service Electric and Gas Company (cont.)

		1 /
b2955	Wreck and rebuild the VFT - Warinanco - Aldene 230 kV circuit with paired conductor	JCPL (93.78%) / NEPTUNE* (6.22%)
b2956	Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable	JCPL (0.05%) / NEPTUNE* (0.01%) / PSEG (96.07%) / RE (3.87%)

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of overhead line from Edison b2218 PSEG (100%) - Meadow Rd - Metuchen (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St

substation

^{*}Neptune Regional Transmission System, LLC

Responsible Customer(s)

ME (1.90%) / NEPTUNE*

(0.44%) / PECO (5.34%) /

PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)

Public Service Electric and Gas Company (cont.)

Install a second four (4)

associated substation

upgrades

Required Transmission Enhancements

breaker 69kV ring bus at b2421.2 PSEG (100%) Bridgewater Switching Station **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bergen – (2.50%) / Dominion (12.86%) / Marion 138 kV path to EKPC (1.87%) / JCPL (3.74%) / b2436.10 double circuit 345 kV and

Annual Revenue Requirement

DFAX Allocation: PSEG (100%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK Convert the Marion -(3.29%) / DL (1.75%) / DPL Bayonne "L" 138 kV (2.50%) / Dominion (12.86%) / circuit to 345 kV and any EKPC (1.87%) / JCPL (3.74%) / b2436.21 associated substation ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Emiancements Annual Revenue Requirement Responsible Customer(s)				
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)		
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%) PSEG (100%)		
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)		

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

required Transmission Education of Annual Revenue Requirement Responsible Customer(s)					
b2436.50	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades		PSEG (100%)		
b2436.60	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)		
b2436.70	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades		PSEG (100%)		
b2436.81	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)		

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -Linden "Z" 138 kV circuit (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / b2436.83 to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway – (2.50%) / Dominion (12.86%) / Linden "W" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.84 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway – (2.50%) / Dominion (12.86%) / Linden "M" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.85 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Relocate Farragut -(2.50%) / Dominion (12.86%) / Hudson "B" and "C" 345 EKPC (1.87%) / JCPL (3.74%) / kV circuits to Marion 345 b2436.90 ME (1.90%) / NEPTUNE* kV and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

quirea 1 rar	ismission Enhancements Anni	ual Revenue Requirement	Responsible Customer(s)
	New Bergen 345/230 kV		
L2427 10	transformer and any		PSEG (96.13%) / RE (3.87%)
02437.10	associated substation		FSEG (90.13%) / RE (3.87%)
	upgrades		
	New Bergen 345/138 kV		
h2/27 11	transformer #1 and any		PSEG (100%)
02437.11	associated substation		F3EG (10070)
	upgrades		
	New Bayway 345/138 kV		
h2/37 20	transformer #1 and any		PSEG (96.13%) / RE (3.87%)
02737.20	associated substation		1 SEG (70.1370) / RE (3.8770)
New Bergen 345/230 kV transformer and any associated substation upgrades New Bergen 345/138 kV transformer #1 and any associated substation upgrades New Bayway 345/138 kV transformer #1 and any associated substation upgrades New Bayway 345/138 kV transformer #2 and any associated substation upgrades New Linden 345/230 kV transformer and any associated substation upgrades New Linden 345/230 kV transformer and any associated substation upgrades New Bayonne 345/69 kV transformer and any associated substation upgrades New Bayonne 345/69 kV transformer and any associated substation upgrades New Bayonne 345/69 kV transformer and any associated substation upgrades New Bayonne 345/69 kV transformer and any associated substation upgrades New Bayonne 345/69 kV transformer and any associated substation upgrades New Bayonne 345/69 kV transformer and any associated substation upgrades Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA B2474 Rebuild Athenia 138 kV to 80kA			
h2437 21	•		PSEG (96.13%) / RE (3.87%)
02737.21	associated substation		1 SEG (70.1370) / RE (3.8770)
	upgrades		
h2437 30	•		PSEG (96.13%) / RE (3.87%)
02 137.30			1323 (50.1370) / 142 (5.0770)
b2437.33			PSEG (100%)
02.07.00			1220 (10070)
	* *		
b2438	Install two reactors at		PSEG (100.00%)
02430	Tosco 230 kV		1 SLG (100.0070)
	Replace the Tosco 138kV		
b2439	breaker 'CB1/2 (CBT)'		PSEG (100.00%)
	with 63kA		
L 2474	Rebuild Athenia 138 kV to		DCEC (1000/)
024/4	80kA		PSEG (100%)
	Install a 100 MVAR 230		
b2589	kV shunt reactor at Mercer		PSEG (100%)
	station		,
	Install two 75 MVAR 230		
b2590	kV capacitors at Sewaren		PSEG (100%)
	station		` /

Public Service Electric and Gas Company (cont.)

Kequiled 11ai	ismission Ennancements Annu	ial Revenue Requirement Responsible Customer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

Public Service Electric and Gas Company (cont.)

Required 11ai	isitiission Eilianeemens Aint	iai Revenue Requirement Responsible Customer(s)
b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

required Trai	equired Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)				
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)			
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)			
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)			
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)			
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)			
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)			
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)			
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)			

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Train	nsmission Enhancements Annua	il Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		PSEG (100%)See sub-IDs for cost allocations

Public Service Electric and Gas Company (cont.)

Required Trai	ismission Enhancements Annua	u Revenue Requirement	Responsible Customer(s)
	Conver the R-1318 and Q-		
	1317 (Edison – Metuchen)		
<u>b2835.1</u>	138 kV circuits to one 230		<u>PSEG (100%)</u>
	<u>kV circuit (Brunswick – </u>		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
<u>b2835.2</u>	138 kV circuits to one 230		<u>PSEG (100%)</u>
	kV circuit (Meadow Road -		
	<u>Pierson Ave</u>)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
<u>b2835.3</u>	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
	kV circuit (Pierson Ave -		
	Metuchen)		
	Convert the N-1340 and T-		
b2836	1372/D-1330 (Brunswick –		PSEG (100%)See sub-IDs for
02830	Trenton) 138 kV circuits to		cost allocations
	230 kV circuits		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
<u>b2836.1</u>	Trenton) 138 kV circuits to		<u>PSEG (100%)</u>
	230 kV circuits (Brunswick		
	<u>- Hunterglen)</u>		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
<u>b2836.2</u>	Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
	230 kV circuits (Hunterglen		
	<u>- Trenton)</u>		
	Convert the N-1340 and T-		
	<u>1372/D-1330 (Brunswick - </u>		
<u>b2836.3</u>	Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
	230 kV circuits (Brunswick		
	<u>- Devils Brook)</u>		
	Convert the N-1340 and T-		
	<u>1372/D-1330 (Brunswick - </u>		
<u>b2836.4</u>	Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
	230 kV circuits (Devils		
	Brook - Trenton)		

Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Enhancements Annua	<u>ıl Revenue Requirement</u>	t Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		PSEG (100%)See sub-IDs for cost allocations
<u>b2837.1</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		<u>NEPTUNE (100%)</u>
<u>b2837.2</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		<u>NEPTUNE (100%)</u>
<u>b2837.3</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		<u>NEPTUNE (100%)</u>
<u>b2837.4</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		<u>NEPTUNE (7.65%) / PSEG</u> (88.71%) / RECO (3.64%)
<u>b2837.5</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		NEPTUNE (6.18%) / PSEG (90.12%) / RECO (3.70%)
<u>b2837.6</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		<u>NEPTUNE (100%)</u>

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1,2027.7	(Trenton - Burlington) 138		NEDTUNE (1000/)
<u>b2837.7</u>	kV circuits to 230 kV		<u>NEPTUNE (100%)</u>
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1.2027.0	(Trenton - Burlington) 138		NEDTINE (1000/)
<u>b2837.8</u>	kV circuits to 230 kV		<u>NEPTUNE (100%)</u>
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1.0027.0	(Trenton - Burlington) 138		NEPTUNE (9.14%) / PSEG
<u>b2837.9</u>	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		<u> </u>
	Williams Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1.000.7.10	(Trenton - Burlington) 138		NEPTUNE (7.50%) / PSEG
<u>b2837.10</u>	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		(0010011)
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1000=11	(Trenton - Burlington) 138		NEPTUNE (5.89%) / PSEG
<u>b2837.11</u>	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		(2011011) 1 2 2 2 (21) 2 1 2)
	Burlington Z)		
	Build new 138/26 kV		
	Newark GIS station in a		
b2870	building (layout #1A)		
	located adjacent to the		PSEG (100%)
	existing Newark Switch and		(10070)
	demolish the existing		
	Newark Switch		
	Third Source for		
b2933	Springfield Rd. and Stanley		PSEG (100%)See sub-IDs for
22,55	Terrace Stations		cost allocations
	Terrace Stations		

Public Service Electric and Gas Company (cont.)

Required Trai	ismission Enhancements Annua	<u>ii Revenue Requirement</u>	Responsible Customer(s)
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.3	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace		PSEG (100%)
<u>b2933.31</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		<u>NEPTUNE (100%)</u>
<u>b2933.32</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		PSEG (100%)
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Tra	insmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Convert Runnemede's		
1.000.7.0	straight bus to a ring bus		PGFG (1222)
b2935.3	and construct a 69 kV line		PSEG (100%)
	from Hilltop to Runnemede		
	69 kV		
	Wreck and rebuild the VFT		
b2955	– Warinanco – Aldene 230		JCPL (93.78%) / NEPTUNE*
02733	kV circuit with paired		(6.22%)
	conductor		
	Replace existing cable on		JCPL (0.05%) / NEPTUNE*
b2956	Cedar Grove - Jackson Rd.		(0.01%) / PSEG (96.07%) / RE
02730	with 5000kcmil XLPE		(3.87%)
	cable		(3.8770)
	Construct a 230/69 kV		
	station at Hillsdale		
b2982	Substation and tie to		PSEG (100%)
	Paramus and Dumont at		
	69 kV		
	Install a 69 kV ring bus and		
b2982.1	one (1) 230/69 kV		PSEG (100%)
	transformer at Hillsdale	us to a ring bus uct a 69 kV line up to Runnemede 69 kV rebuild the VFT co – Aldene 230 uit with paired inductor xisting cable on we - Jackson Rd. 00kcmil XLPE cable ct a 230/69 kV at Hillsdale ion and tie to and Dumont at 69 kV kV ring bus and 0 230/69 kV her at Hillsdale a 69 kV network aramus, Dumont, dale Substation xisting 69 kV circuits Culler Road to a kV station kV ring bus and 20 69/13 kV rs at Kuller Road a 69 kV network a Kuller Road a 69 kV network	
	Construct a 69 kV network		
	between Paramus, Dumont,		
b2982.2	and Hillsdale Substation		PSEG (100%)
	using existing 69 kV		
	circuits		
1.2002	Convert Kuller Road to a		DCEC (1000/)
b2983	69/13 kV station		PSEG (100%)
	Install 69 kV ring bus and		
b2983.1	two (2) 69/13 kV		PSEG (100%)
	transformers at Kuller Road		(20070)
	Construct a 69 kV network		
	between Kuller Road,		
b2983.2	Passaic, Paterson, and		PSEG (100%)
	Harvey (new Clifton area		()
	switching station)		
L	2 Ittiling Station)	1	

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of overhead line from Edison b2218 PSEG (100%) - Meadow Rd - Metuchen (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

Responsible Customer(s)

Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK

PSEG (100%)

Public Service Electric and Gas Company (cont.)

Install a second four (4)

Required Transmission Enhancements

breaker 69kV ring bus at b2421.2 PSEG (100%) Bridgewater Switching Station **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bergen – (2.50%) / Dominion (12.86%) / Marion 138 kV path to EKPC (1.87%) / JCPL (3.74%) / b2436.10 double circuit 345 kV and ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%)

Annual Revenue Requirement

Convert the Marion Bayonne "L" 138 kV

b2436.21 circuit to 345 kV and any associated substation upgrades

| Convert the Marion | Bayonne "L" 138 kV |
| (2.50%) / Dominion (12.86%) /
| EKPC (1.87%) / JCPL (3.74%) /
| ME (1.90%) / NEPTUNE* |
| (0.44%) / PECO (5.34%) /
| PENELEC (1.89%) / PEPCO |
| (3.99%) / PPL (4.84%) / PSEG |
| (6.26%) / RE (0.26%) |
| DFAX Allocation:

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Г	equiled Hall	ismission emancements Annu	iai Revenue Requirement Responsible Customer(s)
	b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
	b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)
	b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	ismission Enhancements A	annuai Revenue Requiren	nent Responsible Customer(s)
b2436.50	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades		PSEG (100%)
b2436.60	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2436.70	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades		PSEG (100%)
b2436.81	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements	Annual Revenue Requirem	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%) /
			APS (5.73%) / ATSI (7.88%) /
			BGE (4.22%) / ComEd (13.31%)
			/ Dayton (2.11%) / DEOK
	Convert the Bayway -		(3.29%) / DL (1.75%) / DPL
	Linden "Z" 138 kV circui	t	(2.50%) / Dominion (12.86%) /
b2436.83	to 345 kV and any		EKPC (1.87%) / JCPL (3.74%) /
	associated substation		ME (1.90%) / NEPTUNE*
	upgrades		(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			PSEG (96.13%) / RE (3.87%)
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%) /
			APS (5.73%) / ATSI (7.88%) /
			BGE (4.22%) / ComEd (13.31%)
			/ Dayton (2.11%) / DEOK
			(3.29%) / DL (1.75%) / DPL
	Convert the Bayway –		(2.50%) / Dominion (12.86%) /
1.0406.04	Linden "W" 138 kV		EKPC (1.87%) / JCPL (3.74%) /
b2436.84	circuit to 345 kV and any		ME (1.90%) / NEPTUNE*
	associated substation		(0.44%) / PECO (5.34%) /
	upgrades		PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway – (2.50%) / Dominion (12.86%) / Linden "M" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.85 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Relocate Farragut -(2.50%) / Dominion (12.86%) / Hudson "B" and "C" 345 EKPC (1.87%) / JCPL (3.74%) / kV circuits to Marion 345 b2436.90 ME (1.90%) / NEPTUNE* kV and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

quirea 1 rar	smission Enhancements Annu	ual Revenue Requirement	Responsible Customer(s)
	New Bergen 345/230 kV		
b2437.10	transformer and any		PSEG (96.13%) / RE (3.87%)
02437.10	associated substation		FSEG (90.13%) / RE (3.87%)
	upgrades		
	New Bergen 345/138 kV		
b2437.11	transformer #1 and any		PSEG (100%)
02437.11	associated substation		F3EG (10070)
	upgrades		
	New Bayway 345/138 kV		
b2437.20	transformer #1 and any		PSEG (96.13%) / RE (3.87%)
02737.20	associated substation		1 SEG (70.1370) / RE (3.8770)
	upgrades		
	New Bayway 345/138 kV		
b2437.21	transformer #2 and any		PSEG (96.13%) / RE (3.87%)
02737.21	associated substation		1 SEG (70.1370) / RE (3.8770)
	upgrades		
	New Linden 345/230 kV		
b2437.30	transformer and any		PSEG (96.13%) / RE (3.87%)
02 137.30	associated substation		1323 (50.1370) / 142 (5.0770)
	upgrades		
	New Bayonne 345/69 kV		
b2437.33	transformer and any		PSEG (100%)
02.07.00	associated substation		1220 (10070)
	upgrades		
b2438	Install two reactors at		PSEG (100.00%)
02430	Tosco 230 kV		1 SLG (100.0070)
	Replace the Tosco 138kV		
b2439	breaker 'CB1/2 (CBT)'		PSEG (100.00%)
	with 63kA		
L 2474	Rebuild Athenia 138 kV to		DCEC (1000/)
b2474	80kA		PSEG (100%)
	Install a 100 MVAR 230		
b2589	kV shunt reactor at Mercer		PSEG (100%)
	station		,
	Install two 75 MVAR 230		
b2590	kV capacitors at Sewaren		PSEG (100%)
	station		` /

Public Service Electric and Gas Company (cont.)

Kequiled 11ai	equired Transmission Ennancements Annual Revenue Requirement Responsible Customer(s)		
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)	
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)	

Public Service Electric and Gas Company (cont.)

Required Trai	equired Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)			
b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

required Trai	ismission Enhancements Annua	l Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required I rai	nsmission Enhancements Annua	il Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		PSEG (100%)See sub-IDs for cost allocations

Public Service Electric and Gas Company (cont.)

Required Tran	smission Enhancements Annua	ıl Revenue Requirement	Responsible Customer(s)
<u>b2835.1</u>	Conver the R-1318 and Q- 1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit (Brunswick – Meadow Road)		PSEG (100%)
<u>b2835.2</u>	Convert the R-1318 and Q-1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Meadow Road - Pierson Ave)		PSEG (100%)
<u>b2835.3</u>	Convert the R-1318 and Q- 1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Pierson Ave - Metuchen)		PSEG (96.13%) / RE (3.87%)
b2836	Convert the N-1340 and T- 1372/D-1330 (Brunswick – Trenton) 138 kV circuits to 230 kV circuits		PSEG (100%)See sub-IDs for cost allocations
<u>b2836.1</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen)		PSEG (100%)
<u>b2836.2</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)		<u>NEPTUNE (100%)</u>
<u>b2836.3</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		<u>NEPTUNE (100%)</u>
<u>b2836.4</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils Brook - Trenton)		<u>NEPTUNE (100%)</u>

Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Enhancements Annua	<u>ii Revenue Requiremen</u>	t Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		PSEG (100%)See sub-IDs for cost allocations
<u>b2837.1</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		<u>NEPTUNE (100%)</u>
<u>b2837.2</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		<u>NEPTUNE (100%)</u>
<u>b2837.3</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		<u>NEPTUNE (100%)</u>
<u>b2837.4</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		NEPTUNE (7.65%) / PSEG (88.71%) / RECO (3.64%)
<u>b2837.5</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		<u>NEPTUNE (6.18%) / PSEG</u> (90.12%) / RECO (3.70%)
<u>b2837.6</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		<u>NEPTUNE (100%)</u>

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1,2027.7	(Trenton - Burlington) 138		NEDTUNE (1000/)
<u>b2837.7</u>	kV circuits to 230 kV		<u>NEPTUNE (100%)</u>
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1.2027.0	(Trenton - Burlington) 138		NEDTUNE (1000/)
<u>b2837.8</u>	kV circuits to 230 kV		<u>NEPTUNE (100%)</u>
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2027 0	(Trenton - Burlington) 138		NEPTUNE (9.14%) / PSEG
<u>b2837.9</u>	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		<u> </u>
	Williams Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2027 10	(Trenton - Burlington) 138		NEPTUNE (7.50%) / PSEG
<u>b2837.10</u>	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1000711	(Trenton - Burlington) 138		NEPTUNE (5.89%) / PSEG
<u>b2837.11</u>	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		
	Burlington Z)		
	Build new 138/26 kV		
	Newark GIS station in a		
	building (layout #1A)		
b2870			PSEG (100%)
	ě		,
	Newark Switch		
	Third Source for		PGFG (1000/)G 1 75 C
b2933			· /————
			<u>cost allocations</u>
b2870 b2933	building (layout #1A) located adjacent to the existing Newark Switch and demolish the existing Newark Switch		PSEG (100%) PSEG (100%)See sub-IDs for cost allocations

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	<u>il Revenue Requirement</u>	Responsible Customer(s)
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.3	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace		PSEG (100%)
<u>b2933.31</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		<u>NEPTUNE (100%)</u>
<u>b2933.32</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		PSEG (100%)
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2935.3	Convert Runnemede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemede		PSEG (100%)
	69 kV Wreck and rebuild the VFT		
b2955	- Warinanco - Aldene 230 kV circuit with paired conductor		JCPL (93.78%) / NEPTUNE* (6.22%)
b2956	Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable		JCPL (0.05%) / NEPTUNE* (0.01%) / PSEG (96.07%) / RE (3.87%)
b2982	Construct a 230/69 kV station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV		PSEG (100%)
b2982.1	Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale		PSEG (100%)
b2982.2	Construct a 69 kV network between Paramus, Dumont, and Hillsdale Substation using existing 69 kV circuits		PSEG (100%)
b2983	Convert Kuller Road to a 69/13 kV station		PSEG (100%)
b2983.1	Install 69 kV ring bus and two (2) 69/13 kV transformers at Kuller Road		PSEG (100%)
b2983.2	Construct a 69 kV network between Kuller Road, Passaic, Paterson, and Harvey (new Clifton area switching station)		PSEG (100%)
b2986	Replace the existing Roseland – Branchburg – Pleasant Valley 230 kV corridor with new structures		PSEG (100%)See sub-IDs for cost allocations

Public Service Electric and Gas Company (cont.)

		revenue resourcement responsibilities e disterner (s)
<u>b2986.11</u>	Roseland-Branchburg 230 kV corridor rebuild (Roseland - Readington)	PSEG (100%)
<u>b2986.12</u>	Roseland-Branchburg 230kV corridor rebuild (Readington - Branchburg)	JCPL (100%)
<u>b2986.21</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (Branchburg - East Flemington)	PECO (100%)
<u>b2986.22</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (East Flemington - Pleasant Valley)	NEPTUNE (0.77%) / PECO (99.23%)
<u>b2986.23</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (Pleasant Valley - Rocktown)	JCPL (31.39%) / NEPTUNE (5.26%) / PECO (6.68%) / PSEG (54.43%) / RECO (2.23%)
<u>b2986.24</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (the PSEG portion of Rocktown - Buckingham)	JCPL (37.95%) / NEPTUNE (4.70%) / PECO (5.38%) / PSEG (49.92%) / RECO (2.05%)

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of overhead line from Edison b2218 PSEG (100%) - Meadow Rd - Metuchen (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St

substation

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

required Trai	required Transmission Education Admidal Revenue Requirement Responsible Customer(s)					
b2421.2	Install a second four (4) breaker 69kV ring bus at Bridgewater Switching Station		PSEG (100%)			
b2436.10	Convert the Bergen – Marion 138 kV path to double circuit 345 kV and associated substation upgrades		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)			
			DFAX Allocation: PSEG (100%)			
b2436.21	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)			
			DFAX Allocation: PSEG (100%)			

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annu	ial Revenue Requirement Responsible Customer(s)
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Nequiled Trail	Required Transmission Enhancements — Annual Revenue Requirement — Responsible Customens			
b2436.50	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades		PSEG (100%)	
b2436.60	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)	
b2436.70	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades		PSEG (100%)	
b2436.81	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)	

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tr	ransmission Enhancements A	nnual Revenue Requirem	ent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%) /
			APS (5.73%) / ATSI (7.88%) /
			BGE (4.22%) / ComEd (13.31%)
			/ Dayton (2.11%) / DEOK
	Convert the Bayway -		(3.29%) / DL (1.75%) / DPL
b2436.83	Linden "Z" 138 kV circuit		(2.50%) / Dominion (12.86%) /
	to 345 kV and any		EKPC (1.87%) / JCPL (3.74%) /
	associated substation		ME (1.90%) / NEPTUNE*
	upgrades		(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
ļ			(3.99%) / PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			PSEG (96.13%) / RE (3.87%)
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%) /
			APS (5.73%) / ATSI (7.88%) /
			BGE (4.22%) / ComEd (13.31%)
	Convert the Bayway – Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades		/ Dayton (2.11%) / DEOK
			(3.29%) / DL (1.75%) / DPL
			(2.50%) / Dominion (12.86%) /
b2436.8			EKPC (1.87%) / JCPL (3.74%) /
			ME (1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway – Linden "M" 138 kV (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / b2436.85 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Relocate Farragut -(2.50%) / Dominion (12.86%) / Hudson "B" and "C" 345 EKPC (1.87%) / JCPL (3.74%) / b2436.90 kV circuits to Marion 345 ME (1.90%) / NEPTUNE* kV and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	ismission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
	New Bergen 345/230 kV		
b2437.10	transformer and any		PSEG (96.13%) / RE (3.87%)
02437.10	associated substation		F3EG (90.1370) / RE (3.8770)
	upgrades		
	New Bergen 345/138 kV		
b2437.11	transformer #1 and any		PSEG (100%)
02437.11	associated substation		1 SEG (10070)
	upgrades		
	New Bayway 345/138 kV		
b2437.20	transformer #1 and any		PSEG (96.13%) / RE (3.87%)
02437.20	associated substation		1 SEG (70.1370) / RE (5.8770)
	upgrades		
	New Bayway 345/138 kV		
b2437.21	transformer #2 and any		PSEG (96.13%) / RE (3.87%)
02437.21	associated substation		1 SEG (70.1370) / RE (5.8770)
	upgrades		
	New Linden 345/230 kV		
b2437.30	transformer and any		PSEG (96.13%) / RE (3.87%)
02437.30	associated substation		1 5EG (70.1370) / RE (5.0770)
	upgrades		
	New Bayonne 345/69 kV		
b2437.33	transformer and any		PSEG (100%)
02437.33	associated substation		1 SEG (10070)
	upgrades	138 kV and any ation 230 kV any ation /69 kV any ation ors at V 138kV	
b2438	Install two reactors at		PSEG (100.00%)
02430	Tosco 230 kV		1 SEG (100.0070)
	Replace the Tosco 138kV		
b2439	breaker 'CB1/2 (CBT)'		PSEG (100.00%)
	with 63kA		
1.0474	Rebuild Athenia 138 kV to		DCEC (1000/)
b2474	80kA		PSEG (100%)
	Install a 100 MVAR 230		
b2589	kV shunt reactor at Mercer		PSEG (100%)
	station		` '
	Install two 75 MVAR 230		
b2590	kV capacitors at Sewaren		PSEG (100%)
	station		, ,

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required I rar	nsmission Enhancements Annu	ial Revenue Requirement Responsible Customer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)

Public Service Electric and Gas Company (cont.)

tequired Transii	mission Empancements Annu	iai Revenue Requirement Responsible Customer(s)
02033.3	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

required Train	ismission Ennancements Annua	al Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Train	nsmission Enhancements Annua	il Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		PSEG (100%)See sub-IDs for cost allocations

Public Service Electric and Gas Company (cont.)

Convert the R-1318 and Q- 1317 (Edison — Metuchen) 138 kV circuits to one 230 kV circuit (Brunswick — Meadow Road)	Required Tran	ismission Enhancements Annua	il Revenue Requirement	Responsible Customer(s)
December 20				
RV circuit (Brunswick Meadow Road)		1317 (Edison – Metuchen)		
Meadow Road	<u>b2835.1</u>	138 kV circuits to one 230		<u>PSEG (100%)</u>
Convert the R-1318 and Q-1317 (Edison - Metuchen)		<u>kV circuit (Brunswick – </u>		
1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Meadow Road - Pierson Ave)		Meadow Road)		
December 230 kV circuit sto one 230 kV circuit (Meadow Road - Pierson Ave)		Convert the R-1318 and Q-		
EV circuit (Meadow Road - Pierson Ave) Convert the R-1318 and Q-1317 (Edison - Metuchen)		1317 (Edison - Metuchen)		
Picrson Ave)	<u>b2835.2</u>	138 kV circuits to one 230		<u>PSEG (100%)</u>
Convert the R-1318 and Q-1317 (Edison - Metuchen)		kV circuit (Meadow Road -		
December 230 Section		Pierson Ave)		
December 230		Convert the R-1318 and Q-		
Logical Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits (Brunswick - Devils Brook) NEPTUNE (100%)		1317 (Edison - Metuchen)		
Metuchen	<u>b2835.3</u>	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits		kV circuit (Pierson Ave -		
1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits		Metuchen)		
December 200 kV circuits to 230 kV circuits to 230 kV circuits		Convert the N-1340 and T-		
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Description Percentage	1,2026	1372/D-1330 (Brunswick –		PSEG (100%)See sub-IDs for
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen)	02830	Trenton) 138 kV circuits to		cost allocations
Description 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%) NEPTUNE (100%) EPTUNE (100%) NEPTUNE (100%) EPTUNE (100%		230 kV circuits		
December 230 kV circuits to 230 kV circuits (Brunswick - Hunterglen) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%) NEPTUNE (100%)		Convert the N-1340 and T-		
230 kV circuits (Brunswick - Hunterglen)		1372/D-1330 (Brunswick -		
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)	<u>b2836.1</u>	Trenton) 138 kV circuits to		PSEG (100%)
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)		230 kV circuits (Brunswick		
b2836.2 Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)		- Hunterglen)		
Description 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)		Convert the N-1340 and T-		
230 kV circuits (Hunterglen - Trenton)		1372/D-1330 (Brunswick -		
- Trenton) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)	<u>b2836.2</u>	Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		230 kV circuits (Hunterglen		
1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)		<u>- Trenton)</u>		
b2836.3 Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) NEPTUNE (100%) Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)		Convert the N-1340 and T-		
230 kV circuits (Brunswick - Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)		1372/D-1330 (Brunswick -		
- Devils Brook) Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils	<u>b2836.3</u>	Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
Convert the N-1340 and T- 1372/D-1330 (Brunswick - 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)		230 kV circuits (Brunswick		
<u>b2836.4</u> <u>Trenton) 138 kV circuits to</u> <u>230 kV circuits (Devils</u> <u>NEPTUNE (100%)</u>		Devils Brook)		
b2836.4 Trenton) 138 kV circuits to 230 kV circuits (Devils NEPTUNE (100%)		Convert the N-1340 and T-		
230 kV circuits (Devils	<u>b2836.4</u>	1372/D-1330 (Brunswick -		
		Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
Brook - Trenton)		230 kV circuits (Devils		
		Brook - Trenton)		

Public Service Electric and Gas Company (cont.)

Kcquiica 11ai	asmission Ennancements Annua	<u>ii Kevenue Kequitemen</u>	it Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		PSEG (100%)See sub-IDs for cost allocations
<u>b2837.1</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		<u>NEPTUNE (100%)</u>
<u>b2837.2</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		<u>NEPTUNE (100%)</u>
<u>b2837.3</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		<u>NEPTUNE (100%)</u>
<u>b2837.4</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		NEPTUNE (7.65%) / PSEG (88.71%) / RECO (3.64%)
<u>b2837.5</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		NEPTUNE (6.18%) / PSEG (90.12%) / RECO (3.70%)
<u>b2837.6</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		<u>NEPTUNE (100%)</u>

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	<u>al Revenue Requirement</u>	Responsible Customer(s)
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1.2027.7	(Trenton - Burlington) 138		NEDTINE (1000/)
<u>b2837.7</u>	kV circuits to 230 kV		<u>NEPTUNE (100%)</u>
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2027 0	(Trenton - Burlington) 138		NEDEVINIE (1000/)
<u>b2837.8</u>	kV circuits to 230 kV		<u>NEPTUNE (100%)</u>
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
4.505-0	(Trenton - Burlington) 138		NEPTUNE (9.14%) / PSEG
<u>b2837.9</u>	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		(0)12011)
	Williams Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
	(Trenton - Burlington) 138		NEPTUNE (7.50%) / PSEG
<u>b2837.10</u>	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		(00:0270)7 12200 (0:0270)
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
	(Trenton - Burlington) 138		NEPTUNE (5.89%) / PSEG
<u>b2837.11</u>	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		(30.1070)7 TEECO (3.7170)
	Burlington Z)		
	Build new 138/26 kV		
	Newark GIS station in a		
	building (layout #1A)		
b2870	located adjacent to the		PSEG (100%)
	existing Newark Switch and		100/0)
	demolish the existing		
	Newark Switch		
	Third Source for		
b2933	Springfield Rd. and Stanley		PSEG (100%)See sub-IDs for
02933	Terrace Stations		cost allocations
1	Terrace Stations	1	

Public Service Electric and Gas Company (cont.)

Required I rar	nsmission Enhancements Annua	<u>il Revenue Requirement</u>	Responsible Customer(s)
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.3	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace		PSEG (100%)
<u>b2933.31</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		<u>NEPTUNE (100%)</u>
<u>b2933.32</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		PSEG (100%)
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV	_	PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required 11	ansmission Enhancements Annua	il Revenue Requirement	Responsible Customer(s)
b2935.3	Convert Runnemede's straight bus to a ring bus and construct a 69 kV line from		PSEG (100%)
b2955	Hilltop to Runnemede 69 kV Wreck and rebuild the VFT – Warinanco – Aldene 230 kV circuit with paired conductor		JCPL (93.78%) / NEPTUNE* (6.22%)
b2956	Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable		JCPL (0.05%) / NEPTUNE* (0.01%) / PSEG (96.07%) / RE (3.87%)
b2982	Construct a 230/69 kV station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV		PSEG (100%)
b2982.1	Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale		PSEG (100%)
b2982.2	Construct a 69 kV network between Paramus, Dumont, and Hillsdale Substation using existing 69 kV circuits		PSEG (100%)
b2983	Convert Kuller Road to a 69/13 kV station		PSEG (100%)
b2983.1	Install 69 kV ring bus and two (2) 69/13 kV transformers at Kuller Road		PSEG (100%)
b2983.2	Construct a 69 kV network between Kuller Road, Passaic, Paterson, and Harvey (new Clifton area switching station)		PSEG (100%)
b2986	Replace the existing Roseland – Branchburg – Pleasant Valley 230 kV corridor with new structures		PSEG (100%)See sub-IDs for cost allocations

Public Service Electric and Gas Company (cont.)

Required Tra	ansmission Enhancements Annual	Revenue Requiremen	t Responsible Customer(s)
<u>b2986.11</u>	Roseland-Branchburg 230 kV corridor rebuild (Roseland - Readington)		PSEG (100%)
<u>b2986.12</u>	Roseland-Branchburg 230kV corridor rebuild (Readington - Branchburg)		JCPL (100%)
<u>b2986.21</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (Branchburg - East Flemington)		PECO (100%)
<u>b2986.22</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (East Flemington - Pleasant Valley)		<u>NEPTUNE (0.77%) / PECO</u> (99.23%)
<u>b2986.23</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (Pleasant Valley - Rocktown)		JCPL (31.39%) / NEPTUNE (5.26%) / PECO (6.68%) / PSEG (54.43%) / RECO (2.23%)
<u>b2986.24</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (the PSEG portion of Rocktown - Buckingham)		JCPL (37.95%) / NEPTUNE (4.70%) / PECO (5.38%) / PSEG (49.92%) / RECO (2.05%)
b3003	Construct a 230/69 kV station at Maywood		PSEG (100%)
b3003.1	Purchase properties at Maywood to accommodate new construction		PSEG (100%)
b3003.2	Extend Maywood 230 kV bus and install one (1) 230 kV breaker		PSEG (100%)
b3003.3	Install one (1) 230/69 kV transformer at Maywood		PSEG (100%)
b3003.4	Install Maywood 69 kV ring bus		PSEG (100%)
b3003.5	Construct a 69 kV network between Spring Valley Road, Hasbrouck Heights, and Maywood		PSEG (100%)

Public Service Electric and Gas Company (cont.)

required 11a	HSHIISSIOH EHHAHCCHICHG AHHUA	ar ixeveriae ixequirement	1 Acsponsible Cusionici(s)
b3004	Construct a 230/69/13 kV station by tapping the Mercer – Kuser Rd 230 kV		PSEG (100%)
	circuit		
b3004.1	Install a new Clinton 230 kV ring bus with one (1) 230/69 kV transformer Mercer - Kuser Rd 230 kV circuit		PSEG (100%)
b3004.2	Expand existing 69 kV ring bus at Clinton Ave with two (2) additional 69 kV breakers		PSEG (100%)
b3004.3	Install two (2) 69/13 kV transformers at Clinton Ave		PSEG (100%)
b3004.4	Install 18 MVAR capacitor bank at Clinton Ave 69 kV		PSEG (100%)

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of overhead line from Edison b2218 PSEG (100%) - Meadow Rd - Metuchen (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Enhancements	Annual Revenue Requiremen	t Responsible Customer(s)
b2276	Eliminate the Sewaren 138 kV bus by installing a new		PSEG (100%)
02270	230 kV bay at Sewaren 230 kV		1323 (10070)
	Convert the two 138 kV circuits from Sewaren –		
b2276.1	Metuchen to 230 kV		PSEG (100%)
	circuits including Lafayette and Woodbridge		
	substation		
	Reconfigure the Metucher	i e	
b2276.2	230 kV station to accommodate the two		PSEG (100%)
	converted circuits		
	Replace disconnect		
	switches at Kilmer, Lake Nilson and Greenbrook		
b2290	230 kV substations on the		PSEG (100%)
	Raritian River - Middlesex		
	(I-1023) circuit Replace circuit switcher at	-	
	Lake Nelson 230 kV	•	
b2291	substation on the Raritian		PSEG (100%)
	River - Middlesex (W- 1037) circuit		
	Replace the Salem 500 kV	,	
b2295	breaker 10X with 63kA		PSEG (100%)
	breaker Install all 69kV lines to		
	interconnect Plainfield,		
b2421	Greenbrook, and		PSEG (100%)
02 121	Bridgewater stations and		1525 (10070)
	establish the 69kV network		
	Install two 18MVAR		
b2421.1	capacitors at Plainfield and S. Second St		PSEG (100%)
	substation		
	l	1	

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

required Trai	1	illual Revenue Requirent	ent Responsible Customer(s)
b2421.2	Install a second four (4) breaker 69kV ring bus at Bridgewater Switching Station		PSEG (100%)
b2436.10	Convert the Bergen – Marion 138 kV path to double circuit 345 kV and associated substation upgrades		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
			DFAX Allocation: PSEG (100%)
b2436.21	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
			PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

required Trai	Ishnission Emancements Amin	iai Kevenue Kequitement Kesponsible Customer(s)
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Kequiled ITal	ismission Ennancements A	Annual Revenue Requiremen	Responsible Customer(s)
b2436.50	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades		PSEG (100%)
b2436.60	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades		PSEG (100%)
b2436.70	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades		PSEG (100%)
b2436.81	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements	Annual Revenue Requireme	ent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%) /
			APS (5.79%) / ATSI (7.95%) /
			BGE (4.11%) / ComEd (13.24%)
			/ Dayton (2.07%) / DEOK
	Convert the Bayway -		(3.22%) / DL (1.73%) / DPL
	Linden "Z" 138 kV circuit	,	(2.48%) / Dominion (13.17%) /
b2436.83	to 345 kV and any		EKPC (2.13%) / JCPL (3.71%) /
	associated substation		ME (1.88%) / NEPTUNE*
	upgrades		(0.42%) / PECO (5.34%) /
			PENELEC (1.86%) / PEPCO
			(3.98%) / PPL (4.76%) / PSEG
			(6.19%) / RE (0.26%)
			DFAX Allocation:
			PSEG (96.08%) / RE (3.92%)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%) /
			APS (5.79%) / ATSI (7.95%) /
			BGE (4.11%) / ComEd (13.24%)
			/ Dayton (2.07%) / DEOK
	Convert the Bayway –		(3.22%) / DL (1.73%) / DPL
	Linden "W" 138 kV		(2.48%) / Dominion (13.17%) /
b2436.84	circuit to 345 kV and any		EKPC (2.13%) / JCPL (3.71%) /
	associated substation		ME (1.88%) / NEPTUNE*
	upgrades		(0.42%) / PECO (5.34%) /
			PENELEC (1.86%) / PEPCO
			(3.98%) / PPL (4.76%) / PSEG
			(6.19%) / RE (0.26%)
			DFAX Allocation:
			PSEG (96.08%) / RE (3.92%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Convert the Bayway – Linden "M" 138 kV (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / b2436.85 circuit to 345 kV and any ME (1.88%) / NEPTUNE* associated substation (0.42%) / PECO (5.34%) / upgrades PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (96.08%) / RE (3.92%) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Relocate Farragut -(2.48%) / Dominion (13.17%) / Hudson "B" and "C" 345 EKPC (2.13%) / JCPL (3.71%) / b2436.90 kV circuits to Marion 345 ME (1.88%) / NEPTUNE* kV and any associated (0.42%) / PECO (5.34%) / substation upgrades PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annu	ial Revenue Requirement	Responsible Customer(s)
12427.10	New Bergen 345/230 kV transformer and any		PGFG (07 000/) / PF (2 020/)
b2437.10	associated substation upgrades		PSEG (96.08%) / RE (3.92%)
	New Bergen 345/138 kV		
10427 11	transformer #1 and any		PGE C (1000/)
b2437.11	associated substation		PSEG (100%)
	upgrades		
	New Bayway 345/138 kV		
b2437.20	transformer #1 and any		PSEG (96.08%) / RE (3.92%)
02437.20	associated substation		FSEG (90.06%) / RE (3.92%)
	upgrades		
	New Bayway 345/138 kV		
b2437.21	transformer #2 and any		PSEG (96.08%) / RE (3.92%)
02437.21	associated substation		1 SEG (70.0070) / RE (3.7270)
	upgrades		
	New Linden 345/230 kV		
b2437.30	transformer and any		PSEG (96.08%) / RE (3.92%)
02.57.50	associated substation		1828 (30.0070) / 122 (8.5270)
	upgrades		
	New Bayonne 345/69 kV		
b2437.33	transformer and any		PSEG (100%)
	associated substation		,
	upgrades		
b2438	Install two reactors at		PSEG (100%)
	Tosco 230 kV		,
	Replace the Tosco 138kV		
b2439	breaker 'CB1/2 (CBT)'		PSEG (100%)
	with 63kA		
b2474	Rebuild Athenia 138 kV to		PSEG (100%)
021/1	80kA		1525 (10070)
	Install a 100 MVAR 230		
b2589	kV shunt reactor at Mercer		PSEG (100%)
	station		
	Install two 75 MVAR 230		
b2590	kV capacitors at Sewaren		PSEG (100%)
	station		

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

required Trui		iai Nevenue Nequitement - Nesponsible Customer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)

Public Service Electric and Gas Company (cont.)

required 11a	Equited Transfillission Ethianeements - Annual Revenue Requirement - Responsible Customer(s)			
b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)		

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV		PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV		PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV		PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required I rai	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		PSEG (100%)See sub-IDs for cost allocations

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Conver the R-1318 and Q-1317 (Edison – Metuchen)		
b2835.1	138 kV circuits to one 230		PSEG (100%)
02033.1	kV circuit (Brunswick –		1 SEG (10070)
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
<u>b2835.2</u>	138 kV circuits to one 230		PSEG (100%)
<u> </u>	kV circuit (Meadow Road -		<u> </u>
	Pierson Ave)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.3	138 kV circuits to one 230		PSEG (96.08%) / RE (3.92%)
	kV circuit (Pierson Ave -		, , , , ,
	Metuchen)		
	Convert the N-1340 and T-		
b2836	1372/D-1330 (Brunswick –		PSEG (100%)See sub-IDs for
02830	Trenton) 138 kV circuits to		cost allocations
	230 kV circuits		
	Convert the N-1340 and T-		
	<u>1372/D-1330 (Brunswick - </u>		
<u>b2836.1</u>	Trenton) 138 kV circuits to		<u>PSEG (100%)</u>
	230 kV circuits (Brunswick		
	<u>- Hunterglen)</u>		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
<u>b2836.2</u>	Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
	230 kV circuits (Hunterglen		
	- Trenton)		
	Convert the N-1340 and T-		
1,000,60	1372/D-1330 (Brunswick -		NEDEX D (5 (1000 ())
<u>b2836.3</u>	Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
	230 kV circuits (Brunswick		
	- Devils Brook)		
	Convert the N-1340 and T-		
L2026 4	1372/D-1330 (Brunswick -		NIEDTLINIE (1000/)
<u>b2836.4</u>	Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
	230 kV circuits (Devils Brook - Trenton)		
	Brook - Trenton)		

Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Enhancements Annua	a Revenue Requirement	Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		PSEG (100%)See sub-IDs for cost allocations
<u>b2837.1</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		<u>NEPTUNE (100%)</u>
<u>b2837.2</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		<u>NEPTUNE (100%)</u>
<u>b2837.3</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		<u>NEPTUNE (100%)</u>
<u>b2837.4</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		NEPTUNE (7.65%) / PSEG (88.71%) / RECO (3.64%)
<u>b2837.5</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		NEPTUNE (6.18%) / PSEG (90.12%) / RECO (3.70%)
<u>b2837.6</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		<u>NEPTUNE (100%)</u>

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1,2027.7	(Trenton - Burlington) 138		NEDTINE (1000/)
<u>b2837.7</u>	kV circuits to 230 kV		<u>NEPTUNE (100%)</u>
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2027 0	(Trenton - Burlington) 138		NEDTINE (1000/)
<u>b2837.8</u>	kV circuits to 230 kV		<u>NEPTUNE (100%)</u>
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1.2027.0	(Trenton - Burlington) 138		NEPTUNE (9.14%) / PSEG
<u>b2837.9</u>	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		<u> </u>
	Williams Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
	(Trenton - Burlington) 138		NEPTUNE (7.50%) / PSEG
<u>b2837.10</u>	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		(00.007.0). 12200 (00.007.0)
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
	(Trenton - Burlington) 138		NEPTUNE (5.89%) / PSEG
<u>b2837.11</u>	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		(30.1070) / TEBEC (3.7170)
	Burlington Z)		
	Build new 138/26 kV		
	Newark GIS station in a		
b2870	building (layout #1A)		
	located adjacent to the		PSEG (100%)
02070	existing Newark Switch and		1523 (10070)
	demolish the existing		
	Newark Switch		
	Third Source for		
b2933			PSEG (100%)See sub-IDs for
62933	Springfield Rd. and Stanley		cost allocations
	Terrace Stations		

Public Service Electric and Gas Company (cont.)

Required I rai	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.3	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace		PSEG (100%)
<u>b2933.31</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		<u>NEPTUNE (100%)</u>
<u>b2933.32</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		<u>PSEG (100%)</u>
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)

Public Service Electric and Gas Company (cont.)

smission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
Convert Runnemede's		
straight bus to a ring bus		
and construct a 69 kV line		PSEG (100%)
from Hilltop to Runnemede		,
69 kV		
Wreck and rebuild the VFT		
Warinanco – Aldene 230		JCPL (93.78%) / NEPTUNE*
kV circuit with paired		(6.22%)
conductor		,
Replace existing cable on		ICDI (0.050/) /NEDELDIE
		JCPL (0.05%) / NEPTUNE*
		(0.01%) / PSEG (96.07%) / RE
		(3.87%)
		PSEG (100%)
		1523 (10070)
		PSEG (100%)
		1 SEG (10070)
		PSEG (100%)
		1 SEG (10070)
		PSEG (100%)
_		
. /		PSEG (100%)
Construct a 69 kV network		
between Kuller Road,		
Passaic, Paterson, and		PSEG (100%)
Harvey (new Clifton area		
switching station)		
Replace the existing		
Roseland – Branchburg –		PSEG (100%)See sub-IDs for
		cost allocations
corridor with new structures		
	Convert Runnemede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemede 69 kV Wreck and rebuild the VFT – Warinanco – Aldene 230 kV circuit with paired conductor Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable Construct a 230/69 kV station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale Construct a 69 kV network between Paramus, Dumont, and Hillsdale Substation using existing 69 kV circuits Convert Kuller Road to a 69/13 kV station Install 69 kV ring bus and two (2) 69/13 kV transformers at Kuller Road Construct a 69 kV network between Kuller Road, Passaic, Paterson, and Harvey (new Clifton area switching station) Replace the existing Roseland – Branchburg – Pleasant Valley 230 kV	Convert Runnemede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemede 69 kV Wreck and rebuild the VFT - Warinanco - Aldene 230 kV circuit with paired conductor Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable Construct a 230/69 kV station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale Construct a 69 kV network between Paramus, Dumont, and Hillsdale Substation using existing 69 kV circuits Convert Kuller Road to a 69/13 kV station Install 69 kV ring bus and two (2) 69/13 kV transformers at Kuller Road Construct a 69 kV network between Kuller Road, Passaic, Paterson, and Harvey (new Clifton area switching station) Replace the existing Roseland - Branchburg - Pleasant Valley 230 kV

Public Service Electric and Gas Company (cont.)

Required I ran	nsmission Enhancements Annua	il Revenue Requirement	Responsible Customer(s)
<u>b2986.11</u>	Roseland-Branchburg 230 kV corridor rebuild (Roseland - Readington)		PSEG (100%)
<u>b2986.12</u>	Roseland-Branchburg 230kV corridor rebuild (Readington - Branchburg)		JCPL (100%)
<u>b2986.21</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (Branchburg - East Flemington)		<u>PECO (100%)</u>
<u>b2986.22</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (East Flemington - Pleasant Valley)		NEPTUNE (0.77%) / PECO (99.23%)
<u>b2986.23</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (Pleasant Valley - Rocktown)		JCPL (31.39%) / NEPTUNE (5.26%) / PECO (6.68%) / PSEG (54.43%) / RECO (2.23%)
<u>b2986.24</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (the PSEG portion of Rocktown - Buckingham)		JCPL (37.95%) / NEPTUNE (4.70%) / PECO (5.38%) / PSEG (49.92%) / RECO (2.05%)
b3003	Construct a 230/69 kV station at Maywood		PSEG (100%)
b3003.1	Purchase properties at Maywood to accommodate new construction		PSEG (100%)
b3003.2	Extend Maywood 230 kV bus and install one (1) 230 kV breaker		PSEG (100%)
b3003.3	Install one (1) 230/69 kV transformer at Maywood		PSEG (100%)

Public Service Electric and Gas Company (cont.)

required Trai	istilission Emilancements Amilia	if the venue frequirement	responsible editionicity
b3003.4	Install Maywood 69 kV ring bus		PSEG (100%)
b3003.5	Construct a 69 kV network between Spring Valley Road, Hasbrouck Heights, and Maywood		PSEG (100%)
b3004	Construct a 230/69/13 kV station by tapping the Mercer – Kuser Rd 230 kV circuit		PSEG (100%)
b3004.1	Install a new Clinton 230 kV ring bus with one (1) 230/69 kV transformer Mercer - Kuser Rd 230 kV circuit		PSEG (100%)
b3004.2	Expand existing 69 kV ring bus at Clinton Ave with two (2) additional 69 kV breakers		PSEG (100%)
b3004.3	Install two (2) 69/13 kV transformers at Clinton Ave		PSEG (100%)
b3004.4	Install 18 MVAR capacitor bank at Clinton Ave 69 kV		PSEG (100%)

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of overhead line from Edison b2218 PSEG (100%) - Meadow Rd - Metuchen (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	ismission enhancements A	inual Revenue Requiremen	t Responsible Customer(s)
b2276	Eliminate the Sewaren 138 kV bus by installing a new 230 kV bay at Sewaren 230 kV		PSEG (100%)
b2276.1	Convert the two 138 kV circuits from Sewaren – Metuchen to 230 kV circuits including Lafayette and Woodbridge substation		PSEG (100%)
b2276.2	Reconfigure the Metuchen 230 kV station to accommodate the two converted circuits		PSEG (100%)
b2290	Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook 230 kV substations on the Raritian River - Middlesex (I-1023) circuit		PSEG (100%)
b2291	Replace circuit switcher at Lake Nelson 230 kV substation on the Raritian River - Middlesex (W- 1037) circuit		PSEG (100%)
b2295	Replace the Salem 500 kV breaker 10X with 63kA breaker		PSEG (100%)
b2421	Install all 69kV lines to interconnect Plainfield, Greenbrook, and Bridgewater stations and establish the 69kV network		PSEG (100%)
b2421.1	Install two 18MVAR capacitors at Plainfield and S. Second St substation		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation: PSEG (100%) APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / Comed (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PECO (3.98%) / PPL (4.76%) / PSEG (6.19%) / PECO (3.98%) / PPL (4.76%) / PSEG (6.19%) / PENELEC (1.86%) / PECO (3.98%) / PPL (4.76%) / PSEG (6.19%) / PECO (3.98%) / PPL (4.76%) / PSEG (6.19%) / PENELEC (1.86%) / PECO (3.98%) / PPL (4.76%) / PSEG (6.19%) / PENELEC (1.86%) / PE	b2421.2	Install a second four (4) breaker 69kV ring bus at Bridgewater Switching Station	Requirement of the second of t	PSEG (100%)
PSEG (100%) Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades	b2436.10	Marion 138 kV path to double circuit 345 kV and associated substation		AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)				PSEG (100%)
DITAL AHUCAUUII.	b2436.21	Bayonne "L" 138 kV circuit to 345 kV and any associated substation		AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

required 11ai	ISHIISSIOH EHHAHCCHICHS AHH	aar Revenue Requirement - Responsible Customer(s)
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Trai	ismission Ennancements	Annuai Revenue Requiremen	t Responsible Customer(s)
b2436.50	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades		PSEG (100%)
b2436.60	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades		PSEG (100%)
b2436.70	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades		PSEG (100%)
b2436.81	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Convert the Bayway -Linden "Z" 138 kV circuit (2.48%) / Dominion (13.17%) / b2436.83 to 345 kV and any EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* associated substation (0.42%) / PECO (5.34%) / upgrades PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (96.08%) / RE (3.92%) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Convert the Bayway – (2.48%) / Dominion (13.17%) / Linden "W" 138 kV EKPC (2.13%) / JCPL (3.71%) / b2436.84 circuit to 345 kV and any ME (1.88%) / NEPTUNE* associated substation upgrades (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (96.08%) / RE (3.92%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Convert the Bayway – Linden "M" 138 kV (2.48%) / Dominion (13.17%) / b2436.85 circuit to 345 kV and any EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* associated substation (0.42%) / PECO (5.34%) / upgrades PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (96.08%) / RE (3.92%) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Relocate Farragut -(2.48%) / Dominion (13.17%) / Hudson "B" and "C" 345 EKPC (2.13%) / JCPL (3.71%) / b2436.90 kV circuits to Marion 345 ME (1.88%) / NEPTUNE* kV and any associated (0.42%) / PECO (5.34%) / substation upgrades PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annu	al Revenue Requirement	Responsible Customer(s)
	New Bergen 345/230 kV		
b2437.10	transformer and any		PSEG (96.08%) / RE (3.92%)
02437.10	associated substation		1 SEG (70.0070) / RE (3.7270)
	upgrades		
	New Bergen 345/138 kV		
b2437.11	transformer #1 and any		PSEG (100%)
02437.11	associated substation		1 SEG (10070)
	upgrades		
	New Bayway 345/138 kV		
b2437.20	transformer #1 and any		PSEG (96.08%) / RE (3.92%)
02437.20	associated substation		1 SEG (70.0070) / RE (3.7270)
	upgrades		
	New Bayway 345/138 kV		
b2437.21	transformer #2 and any		PSEG (96.08%) / RE (3.92%)
02437.21	associated substation		1 SEG (90.0676) / RE (3.9276)
	upgrades		
	New Linden 345/230 kV		
b2437.30	transformer and any		PSEG (96.08%) / RE (3.92%)
02437.30	associated substation		1 SEG (90.0676) / RE (3.9276)
	upgrades		
	New Bayonne 345/69 kV		
b2437.33	transformer and any		PSEG (100%)
02437.33	associated substation		1 SEG (10070)
	upgrades		
b2438	Install two reactors at		DCEC (1000/)
02438	Tosco 230 kV		PSEG (100%)
_	Replace the Tosco 138kV		
b2439	breaker 'CB1/2 (CBT)'		PSEG (100%)
	with 63kA		
10171	Rebuild Athenia 138 kV to		PGFG (1222)
b2474	80kA		PSEG (100%)
	Install a 100 MVAR 230		
b2589	kV shunt reactor at Mercer		PSEG (100%)
	station		1 520 (10070)
	Install two 75 MVAR 230		
b2590	kV capacitors at Sewaren		PSEG (100%)
02390	station		1 SEG (10070)
	Station		

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

required Trui		iai Revenue Requirement Responsible Cusiomer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)

Public Service Electric and Gas Company (cont.)

required Tra	isilission Ellianeemens Aim	aar Neveriue Requirement	responsible Cusionici(s)
b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Train	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV		PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV		PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV		PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA		PSEG (100%)
92,12	breaker		
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA		PSEG (100%)
	breaker		()
b2722	Reconductor the 1 mile Bergen – Bergen GT		PSEG (100%)
© 2 , 22	138 kV circuit (B-1302)		1220 (10070)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
	Install second 230/69 kV		
b2810.1	transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great		PSEG (100%)
02810.2	Notch		13EG (10070)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
	Construct River Road to		
b2812	Tonnelle Avenue 69kV		PSEG (100%)
	Circuit Install 2X50 MVAR shunt		
b2825.1	reactors at Kearny 230 kV		PSEG (100%)
	substation Increase the size of the		
1,2025.2	Hudson 230 kV, 2X50		DCEC (1000/)
b2825.2	MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
	Install 2X100 MVAR shunt		
b2825.3	reactors at Bayway 345 kV		PSEG (100%)
	substation Install 2X100 MVAR shunt		
b2825.4	reactors at Linden 345 kV		PSEG (100%)
	substation Convert the R-1318 and		
L2025	Q1317 (Edison –		PSEG (100%)See sub-IDs for
b2835	Metuchen) 138 kV circuits		cost allocations
	to one 230 kV circuit		

Public Service Electric and Gas Company (cont.)

Required Trai	ismission Enhancements Annua	i Revenue Requirement	Responsible Customer(s)
	Conver the R-1318 and Q-		
	1317 (Edison – Metuchen)		
<u>b2835.1</u>	138 kV circuits to one 230		<u>PSEG (100%)</u>
	<u>kV circuit (Brunswick – </u>		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
<u>b2835.2</u>	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Meadow Road -		
	Pierson Ave)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
<u>b2835.3</u>	138 kV circuits to one 230		PSEG (96.08%) / RE (3.92%)
	kV circuit (Pierson Ave -		
	Metuchen)		
	Convert the N-1340 and T-		
b2836	1372/D-1330 (Brunswick –		PSEG (100%)See sub-IDs for
02830	Trenton) 138 kV circuits to		cost allocations
	230 kV circuits		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
<u>b2836.1</u>	Trenton) 138 kV circuits to		<u>PSEG (100%)</u>
	230 kV circuits (Brunswick		
	<u>- Hunterglen)</u>		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
<u>b2836.2</u>	Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
	230 kV circuits (Hunterglen		
	<u>- Trenton)</u>		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
<u>b2836.3</u>	Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
	230 kV circuits (Brunswick		
	<u>- Devils Brook)</u>		
	Convert the N-1340 and T-		
<u>b2836.4</u>	1372/D-1330 (Brunswick -		
	Trenton) 138 kV circuits to		<u>NEPTUNE (100%)</u>
	230 kV circuits (Devils		
	Brook - Trenton)		

Public Service Electric and Gas Company (cont.)

<u>Required Trai</u>	nsmission Enhancements Annua	a Revenue Requirement	Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		PSEG (100%)See sub-IDs for cost allocations
<u>b2837.1</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		<u>NEPTUNE (100%)</u>
<u>b2837.2</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		<u>NEPTUNE (100%)</u>
<u>b2837.3</u>	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		<u>NEPTUNE (100%)</u>
<u>b2837.4</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		<u>NEPTUNE (7.65%) / PSEG</u> (88.71%) / RECO (3.64%)
<u>b2837.5</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		<u>NEPTUNE (6.18%) / PSEG</u> (90.12%) / RECO (3.70%)
<u>b2837.6</u>	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		<u>NEPTUNE (100%)</u>

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138		
<u>b2837.7</u>	kV circuits to 230 kV circuits (Yardville - Ward Ave F)		<u>NEPTUNE (100%)</u>
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.8	(Trenton - Burlington) 138		NEPTUNE (100%)
02037.0	kV circuits to 230 kV		INEL TOTAL (10070)
	circuits (Ward Ave -		
	Convert the E 1259/7 1226		
	Convert the F-1358/Z-1326 and K-1363/Y-1325		
1.0007.0	(Trenton - Burlington) 138		NEPTUNE (9.14%) / PSEG
<u>b2837.9</u>	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		
	Williams Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.10	(Trenton - Burlington) 138		<u>NEPTUNE (7.50%) / PSEG</u>
32307713	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		
	Bustleton Z)		
	Convert the F-1358/Z-1326 and K-1363/Y-1325		
	(Trenton - Burlington) 138		NEPTUNE (5.89%) / PSEG
<u>b2837.11</u>	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		(30.1070) / INDEO (3.7170)
	Burlington Z)		
	Build new 138/26 kV		
	Newark GIS station in a		
b2870	building (layout #1A)		
	located adjacent to the		PSEG (100%)
	existing Newark Switch and		
	demolish the existing		
	Newark Switch		
1.0000	Third Source for		PSEG (100%)See sub-IDs for
b2933	Springfield Rd. and Stanley		cost allocations
	Terrace Stations		

Public Service Electric and Gas Company (cont.)

<u>Required Fran</u>	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.3	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace		PSEG (100%)
<u>b2933.31</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		<u>NEPTUNE (100%)</u>
<u>b2933.32</u>	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		PSEG (100%)
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)

Public Service Electric and Gas Company (cont.)

Convert Runnemede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemede 69 kV Wreck and rebuild the VFT - Warinanco - Aldene 230 kV circuit with paired conductor Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable Construct a 230/69 kV station and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale Construct a 69 kV network Construct a 69 kV network PSEG (100%) PSEG (100%) PSEG (100%) PSEG (100%)	Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2935.3 and construct a 69 kV line from Hilltop to Runnemede 69 kV Wreck and rebuild the VFT — Warinanco — Aldene 230 kV circuit with paired conductor Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable Construct a 230/69 kV station and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale b2982.1 Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale		Convert Runnemede's		
$\begin{array}{c} \text{from Hilltop to Runnemede} \\ 69 \text{ kV} \\ \\ \text{Wreck and rebuild the VFT} \\ - \text{Warinanco} - \text{Aldene 230} \\ \text{kV circuit with paired} \\ \text{conductor} \\ \\ \text{B2956} \\ \\ \text{B2956} \\ \\ \text{Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable} \\ \\ \text{Construct a 230/69 kV} \\ \text{station at Hillsdale} \\ \text{Substation and tie to} \\ \text{Paramus and Dumont at} \\ \text{69 kV} \\ \\ \text{Install a 69 kV ring bus and one (1) 230/69 kV} \\ \text{transformer at Hillsdale} \\ \\ \text{PSEG (100\%)} \\ \\ PSEG (100\%$		straight bus to a ring bus		
b2955 Wreck and rebuild the VFT - Warinanco - Aldene 230 kV circuit with paired conductor Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable Construct a 230/69 kV station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale b2982.1 Wreck and rebuild the VFT - Warinanco - Aldene 230 JCPL (93.78%) / NEPTUNE* (6.22%) JCPL (0.05%) / NEPTUNE* (0.01%) / PSEG (96.07%) / RE (3.87%) PSEG (100%) PSEG (100%)	b2935.3	and construct a 69 kV line		PSEG (100%)
b2955 Wreck and rebuild the VFT - Warinanco - Aldene 230 kV circuit with paired conductor Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable Construct a 230/69 kV station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale B2982.1 Wreck and rebuild the VFT - Warinanco - Aldene 230 JCPL (93.78%) / NEPTUNE* (6.22%) JCPL (0.05%) / NEPTUNE* (0.01%) / PSEG (96.07%) / RE (3.87%) PSEG (100%) PSEG (100%)		from Hilltop to Runnemede		,
b2955 - Warinanco - Aldene 230 kV circuit with paired conductor Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable Construct a 230/69 kV station at Hillsdale b2982 Substation and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale b2982.1 JCPL (0.05%) / NEPTUNE* (0.01%) / PSEG (96.07%) / RE (3.87%) PSEG (100%) PSEG (100%)		<u> </u>		
kV circuit with paired conductor Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable Construct a 230/69 kV station at Hillsdale b2982 Substation and tie to Paramus and Dumont at 69 kV install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale b2982.1 kV circuit with paired (6.22%) JCPL (0.05%) / NEPTUNE* (0.01%) / PSEG (96.07%) / RE (3.87%) PSEG (100%) PSEG (100%) PSEG (100%)		Wreck and rebuild the VFT		
kV circuit with paired conductor Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable Construct a 230/69 kV station at Hillsdale b2982 Substation and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale b2982.1 kV circuit with paired (6.22%) JCPL (0.05%) / NEPTUNE* (0.01%) / PSEG (96.07%) / RE (3.87%) PSEG (100%) PSEG (100%)	1 2055	– Warinanco – Aldene 230		JCPL (93.78%) / NEPTUNE*
conductor Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable Construct a 230/69 kV station at Hillsdale b2982 Substation and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale b2982.1 Conductor JCPL (0.05%) / NEPTUNE* (0.01%) / PSEG (96.07%) / RE (3.87%) PSEG (100%) PSEG (100%) PSEG (100%)	62955	kV circuit with paired		,
b2956 Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable Construct a 230/69 kV station at Hillsdale b2982 Substation and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale				,
b2956 Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable Construct a 230/69 kV station at Hillsdale b2982 Substation and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale		Replace existing cable on		ICDI (0.050/) /NEDELDIE
b2956 with 5000kcmil XLPE cable Construct a 230/69 kV station at Hillsdale b2982 Substation and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale				, ,
Construct a 230/69 kV station at Hillsdale PSEG (100%)	b2956			
Construct a 230/69 kV station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale				(3.87%)
station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale PSEG (100%) PSEG (100%)				
b2982 Substation and tie to Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale PSEG (100%) PSEG (100%) PSEG (100%)				
Paramus and Dumont at 69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale PSEG (100%)	h2982			PSFG (100%)
69 kV Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale PSEG (100%)	02702			1523 (10070)
b2982.1 Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale Install a 69 kV ring bus and PSEG (100%)				
b2982.1 one (1) 230/69 kV PSEG (100%) transformer at Hillsdale				
transformer at Hillsdale	h2982 1			PSFG (100%)
	02962.1			1 SEG (10070)
Construct a 65 k v network				
between Paramus, Dumont,				
b2982.2 and Hillsdale Substation PSEG (100%)	b2082.2			DSEC (100%)
using existing 69 kV	02902.2			1 SEG (10070)
circuits				
b2983 Convert Kuller Road to a PSEG (100%)	b2983			PSEG (100%)
69/13 KV station				
Install 69 kV ring bus and	b2983.1	_		
		` /		PSEG (100%)
transformers at Kuller Road				
Construct a 69 kV network				
between Kuller Road,		between Kuller Road,		
b2983.2 Passaic, Paterson, and PSEG (100%)	b2983.2	Passaic, Paterson, and		PSEG (100%)
Harvey (new Clifton area		Harvey (new Clifton area		
switching station)		switching station)		
Replace the existing		Replace the existing		
Roseland - Branchburg - PSEG (100%)See sub-IDs for	1,2007			PSEG (100%)See sub-IDs for
Pleasant Valley 230 kV cost allocations	b2986			cost allocations
corridor with new structures				

Public Service Electric and Gas Company (cont.)

Required Tran	nsmission Enhancements Annua	il Revenue Requirement	Responsible Customer(s)
<u>b2986.11</u>	Roseland-Branchburg 230 <u>kV corridor rebuild</u> (Roseland - Readington)		<u>PSEG (100%)</u>
<u>b2986.12</u>	Roseland-Branchburg 230kV corridor rebuild (Readington - Branchburg)		JCPL (100%)
<u>b2986.21</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (Branchburg - East Flemington)		<u>PECO (100%)</u>
<u>b2986.22</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (East Flemington - Pleasant Valley)		NEPTUNE (0.77%) / PECO (99.23%)
<u>b2986.23</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (Pleasant Valley - Rocktown)		JCPL (31.39%) / NEPTUNE (5.26%) / PECO (6.68%) / PSEG (54.43%) / RECO (2.23%)
<u>b2986.24</u>	Branchburg-Pleasant Valley 230kV corridor rebuild (the PSEG portion of Rocktown - Buckingham)		JCPL (37.95%) / NEPTUNE (4.70%) / PECO (5.38%) / PSEG (49.92%) / RECO (2.05%)
b3003	Construct a 230/69 kV station at Maywood		PSEG (100%)
b3003.1	Purchase properties at Maywood to accommodate new construction		PSEG (100%)
b3003.2	Extend Maywood 230 kV bus and install one (1) 230 kV breaker		PSEG (100%)
b3003.3	Install one (1) 230/69 kV transformer at Maywood		PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Trai	nsmission Ennancements Annua	a Revenue Requirement	Responsible Customer(s)
b3003.4	Install Maywood 69 kV ring bus		PSEG (100%)
b3003.5	Construct a 69 kV network between Spring Valley Road, Hasbrouck Heights, and Maywood		PSEG (100%)
b3004	Construct a 230/69/13 kV station by tapping the Mercer – Kuser Rd 230 kV circuit		PSEG (100%)
b3004.1	Install a new Clinton 230 kV ring bus with one (1) 230/69 kV transformer Mercer - Kuser Rd 230 kV circuit		PSEG (100%)
b3004.2	Expand existing 69 kV ring bus at Clinton Ave with two (2) additional 69 kV breakers		PSEG (100%)
b3004.3	Install two (2) 69/13 kV transformers at Clinton Ave		PSEG (100%)
b3004.4	Install 18 MVAR capacitor bank at Clinton Ave 69 kV		PSEG (100%)
b3025	Construct two (2) new 69/13 kV stations in the Doremus area and relocate the Doremus load to the new stations		PSEG (100%)

Public Service Electric and Gas Company (cont.)

	Install a new 69/13 kV	·
b3025.1	station (Vauxhall) with a	PSEG (100%)
	ring bus configuration	
	Install a new 69/13 kV	
b3025.2	station (19th Ave) with a	PSEG (100%)
	ring bus configuration	
	Construct a 69 kV network	
	between Stanley Terrace,	
b3025.3	Springfield Road,	PSEG (100%)
	McCarter, Federal Square,	F3EG (10070)
	and the two new stations	
	(Vauxhall & 19th Ave)	

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

equiled 11a	ansmission enhancements Annual	Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieive a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

Virginia Electric and Power Company (cont.)

Required 1	ransmission Ennancements An	nual Revenue Requirement	Responsible Customer(s)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: APS (43.13%) / Dominion
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		(56.87%) Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

xequileu 11a		nuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required 11	ansmission Enhancements Ani	nual Revenue Requirement	Responsible Customer(s)
b2471	Replace Midlothian 500 kV breaker 563T576 and motor operated switches with 3 breaker 500 kV ring bus. Terminate Lines # 563 Carson – Midlothian, #576 Midlothian –North Anna, Transformer #2 in new ring		Load-Ration Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / Dominion (13.30%) / DPL (2.53%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%)
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto-sectionalizing scheme		Dominion (100%) Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line		Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker		Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ti	ransmission Enhancements A	nnual Revenue Requirement	Responsible Customer(s)
b2565	Replace wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)
b2582	Rebuild the Elmont – Cunningham 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: BGE (6.39%) / Dominion (10081.64%) / PEPCO (11.97%)
b2583	Install 500 kV breaker at Ox Substation to remove Ox Tx#1 from H1T561 breaker failure outage.		Dominion (100%)
b2584	Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and Cartersville distribution station to #2027 (Bremo- Midlothian 230 kV) line		Dominion (100%)

Virginia Electric and Power Company (cont.)

b2585	Reconductor 7.63 miles of existing line between Cranes and Stafford, upgrade associated line switches at Stafford	DFAX Allocation: PEPCO (100%)
b2636	Install three 230 kV bus breakers and 230 kV, 100 MVAR Variable Shunt Reactor at Dahlgren to provide line protection during maintenance, remove the operational hazard and provide voltage reduction during light load conditions	Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annu	al Revenue Requirement	Responsible Customer(s)
b2647	Rebuild Boydton Plank Rd - Kerr Dam 115 kV Line #38 (8.3 miles) to current standards with summer		Dominion (100%)
	emergency rating of 353 MVA at 115 kV.		, ,
b2648	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7 miles) to current standards with summer		Dominion (100%)
	emergency rating of 353 MVA 115 kV.		. ,
b2649	Rebuild Clubhouse – Carolina 115 kV Line #130 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)

Virginia Electric and Power Company (cont.)

kequired I ran		al Revenue Requirement	Responsible Customer(s)
	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating		
b2654.1	of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three- breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)
b2686	Pratts Area Improvement		Dominion (100%)
b2686.1	Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW		Dominion (100%)
b2686.11	Upgrading sections of the Gordonsville – Somerset 115 kV circuit		Dominion (100%)
b2686.12	Upgrading sections of the Somerset – Doubleday 115 kV circuit		Dominion (100%)
b2686.13	Upgrading sections of the Orange – Somerset 115 kV circuit		Dominion (100%)
b2686.14	Upgrading sections of the Mitchell – Mt. Run 115 kV circuit		Dominion (100%)
b2686.2	Install a 3rd 230/115 kV transformer at Gordonsville Substation		Dominion (100%)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 11a		Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

Virginia Electric and Power Company (cont.)

required 11	ransmission Ennancements An	nuai Revenue Requirement	Responsible Customer(s)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements Ana	nual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA	•	Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

required Tre		nuar Neveriue Nequirement	responsible Cusionici(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements Ani	nual Revenue Requirement	Responsible Customer(s)
b2471	Replace Midlothian 500 kV breaker 563T576 and motor operated switches with 3 breaker 500 kV ring bus. Terminate Lines # 563 Carson – Midlothian, #576 Midlothian –North Anna, Transformer #2 in new ring		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%)
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto-sectionalizing scheme		Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line		Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker		Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2565	Replace wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)
b2582	Rebuild the Elmont – Cunningham 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: BGE (6.39%) / Dominion (10081.64%) / PEPCO (11.97%)
b2583	Install 500 kV breaker at Ox Substation to remove Ox Tx#1 from H1T561 breaker failure outage.		Dominion (100%)
b2584	Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and Cartersville distribution station to #2027 (Bremo- Midlothian 230 kV) line		Dominion (100%)

Virginia Electric and Power Company (cont.)

b2585	Reconductor 7.63 miles of existing line between Cranes and Stafford, upgrade associated line switches at Stafford	DFAX Allocation: PEPCO (100%)
b2620	Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; minimum rating 239 MVA normal/emergency, 275 MVA load dump rating	Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82		
1.2620	Everetts – Voice of America		
	(20.8 miles) to current		Daminian (1000/)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
b2630	GSU units #4 and #5. Install		Dominion (100%)
02030	two 230 kV CCVT's on		Dominion (10070)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
1.2626	Reactor at Dahlgren to		D :: (1000()
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
	(8.3 miles) to current		
b2647	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
	Dam 115 kV Line #90 (38.7		
b2648	miles) to current standards		Dominion (100%)
===	with summer emergency		2 5
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
b2649	Carolina 115 kV Line #130		
	(17.8 miles) to current		Dominian (1000/)
	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
b2650	Rebuild Twittys Creek –		
	Pamplin 115 kV Line #154		
	(17.8 miles) to current		Dominion (100%)
	standards with summer		Dominion (10070)
	emergency rating of 353		
	MVA at 115 kV.		

Virginia Electric and Power Company (cont.)

Required Trai		a Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tran	smission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd
			(12.38%) / ConEd (0.55%) /
			Dayton (2.02%) / DEOK
			(3.15%) / DL (1.72%) / DPL
			(2.53%) / Dominion (13.30%) /
	Rebuild the Cunningham –		ECP** (0.20%) / EKPC
b2665	Dooms 500 kV line		(2.14%) / HTP*** (0.20%) /
	Dooms 500 k v inic		· · · · · · · · · · · · · · · · · · ·
			JCPL (3.57%) / ME (1.72%) /
			<u>NEPTUNE* (0.41%) / PECO</u>
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%)
			/ PSEG (5.89%) / RE (0.24%)
			DFAX Allocation:
			Dominion (100 <u>71.81</u> %)/
			<u>PEPCO (28.19%)</u>
b2686	Pratts Area Improvement		Dominion (100%)
02080	Traus Area improvement		Dominion (10078)
	Build a 230 kV line from		
b2686.1	Remington Substation to		Dominion (100%)
02000.1	Gordonsville Substation		Deminion (10070)
	utilizing existing ROW Ungrading sections of the		
b2686.11	Upgrading sections of the Gordonsville – Somerset		Dominion (100%)
02000.11	115 kV circuit		Bollimon (10070)
	Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
	kV circuit		
b2686.13	Upgrading sections of the Orange – Somerset 115 kV		Daminian (1000/)
02080.13	circuit		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		()
	Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
	Substation		
	Upgrade Line 2088 between Gordonsville		
b2686.3	Substation and Louisa CT		Dominion (100%)
	Station		

^{*}Neptune Regional Transmission System, LLC

** East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Version: 8.3.0 Effective Date: June 16, 2016

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

required 118	ansmission ennancements Annual	Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

Virginia Electric and Power Company (cont.)

ransmission Ennancements An	nuai Revenue Requirement	Responsible Customer(s)
Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%)
Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		(56.87%) Dominion (100%)
Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
230 kV breaker '208192' with 63kA		Dominion (100%)
230 kV breaker '209592' with 63kA		Dominion (100%)
Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)
	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA Replace the Beaumeade 230 kV breaker '208192' with 63kA Replace the Beaumeade 230 kV breaker '209592' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA Replace the Beaumeade 230 kV breaker '208192' with 63kA Replace the Beaumeade 230 kV breaker '209592' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H-frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

xequileu 11a		nuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements Ani	nual Revenue Requirement	Responsible Customer(s)
b2471	Replace Midlothian 500 kV breaker 563T576 and motor operated switches with 3 breaker 500 kV ring bus. Terminate Lines # 563 Carson – Midlothian, #576 Midlothian –North Anna, Transformer #2 in new ring		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%)
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto-sectionalizing scheme		Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line		Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker		Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tr	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2565	Replace wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)
b2582	Rebuild the Elmont – Cunningham 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: BGE (6.39%) / Dominion (10081.64%) / PEPCO (11.97%)
b2583	Install 500 kV breaker at Ox Substation to remove Ox Tx#1 from H1T561 breaker failure outage.		Dominion (100%)
b2584	Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and Cartersville distribution station to #2027 (Bremo- Midlothian 230 kV) line		Dominion (100%)

Virginia Electric and Power Company (cont.)

b2585	Reconductor 7.63 miles of existing line between Cranes and Stafford, upgrade associated line switches at Stafford	DFAX Allocation: PEPCO (100%)
b2620	Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; minimum rating 239 MVA normal/emergency, 275 MVA load dump rating	Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82		
	Everetts – Voice of America		
1-2620	(20.8 miles) to current		Daminian (1000/)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
b2630	GSU units #4 and #5. Install		Dominion (100%)
02030	two 230 kV CCVT's on		Bommon (10070)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
1-2626	Reactor at Dahlgren to		Daminian (1000/)
b2636	provide line protection		Dominion (100%)
	during maintenance, remove the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
1.0.64=	(8.3 miles) to current		5 (1000)
b2647	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
	Dam 115 kV Line #90 (38.7		
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		, ,
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
b2649	(17.8 miles) to current		Dominion (100%)
02047	standards with summer		
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Twittys Creek –		
	Pamplin 115 kV Line #154		
b2650	(17.8 miles) to current standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
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Virginia Electric and Power Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

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^{*}Neptune Regional Transmission System, LLC

** East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station	Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty	AEC (1.96%) / BGE (14.37%) / Dominion (35.11%) / DPL (3.76%) / ECP (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME (2.51%) / Neptune (0.63%) / PECO (6.26%) / PEPCO (20.23%) / PPL (3.94%) /PSEG (7.29%)

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

equiled 11	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker	_	Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

Virginia Electric and Power Company (cont.)

required 11	ransmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: APS (43.13%) / Dominion (56.87%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H-frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

xequileu 11a		nuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements Ani	nual Revenue Requirement	Responsible Customer(s)
b2471	Replace Midlothian 500 kV breaker 563T576 and motor operated switches with 3 breaker 500 kV ring bus. Terminate Lines # 563 Carson – Midlothian, #576 Midlothian –North Anna, Transformer #2 in new ring		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%)
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto-sectionalizing scheme		Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line		Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker		Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements A	nnual Revenue Requirement	Responsible Customer(s)
b2565	Replace wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)
b2582	Rebuild the Elmont – Cunningham 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: BGE (6.39%) / Dominion (10081.64%) / PEPCO (11.97%)
b2583	Install 500 kV breaker at Ox Substation to remove Ox Tx#1 from H1T561 breaker failure outage.		Dominion (100%)
b2584	Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and Cartersville distribution station to #2027 (Bremo- Midlothian 230 kV) line		Dominion (100%)

Virginia Electric and Power Company (cont.)

b2585	Reconductor 7.63 miles of existing line between Cranes and Stafford, upgrade associated line switches at Stafford	DFAX Allocation: PEPCO (100%)
b2620	Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; minimum rating 239 MVA normal/emergency, 275 MVA load dump rating	Dominion (100%)

Virginia Electric and Power Company (cont.)

Requirea 1 ra		ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82		
1.2620	Everetts – Voice of America		
	(20.8 miles) to current		Daminian (1000/)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
b2630	GSU units #4 and #5. Install		Dominion (100%)
02030	two 230 kV CCVT's on		Bommon (10070)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
1-2626	Reactor at Dahlgren to		Daminian (1000/)
b2636	provide line protection		Dominion (100%)
	during maintenance, remove the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
1.0.64=	(8.3 miles) to current		5 (1000)
b2647	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
	Dam 115 kV Line #90 (38.7		
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		, ,
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
b2649	Carolina 115 kV Line #130		
	(17.8 miles) to current		Dominion (100%)
	standards with summer		
	emergency rating of 353		
	MVA at 115 kV.		
b2650	Rebuild Twittys Creek –		
	Pamplin 115 kV Line #154		
	(17.8 miles) to current standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
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Virginia Electric and Power Company (cont.)

Required Trai		ii Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tran	nsmission Enhancements Annua	l Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd
			(12.38%) / ConEd (0.55%) /
			Dayton (2.02%) / DEOK
			(3.15%) / DL (1.72%) / DPL
			(2.53%) / Dominion (13.30%) /
1.2665	Rebuild the Cunningham –		ECP** (0.20%) / EKPC
b2665	Dooms 500 kV line		(2.14%) / HTP*** (0.20%) /
			JCPL (3.57%) / ME (1.72%) /
			NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%)
			/ PSEG (5.89%) / RE (0.24%)
			DFAX Allocation:
			Dominion (100 71.81%)/
			PEPCO (28.19%)
b2686	Pratts Area Improvement		Daminian (1009/)
02080	Traus Area improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to		Dominion (100%)
	Gordonsville Substation utilizing existing ROW		
	Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit		
b2686.12	Upgrading sections of the Somerset – Doubleday 115		Dominion (100%)
02000.12	kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	circuit		
b2686.14	Upgrading sections of the Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		Dominion (10070)
	Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
	Substation		·

^{*}Neptune Regional Transmission System, LLC

^{**} East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

Kequiled 11ai	ISITIISSIOII EIIIIAIICEITIEIIIS A	Annuai Revenue Requiremen	it responsible cusionici(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.96%) / BGE (14.37%) / Dominion (35.11%) / DPL (3.76%) / ECP (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME (2.51%) / Neptune (0.63%) / PECO (6.26%) / PEPCO (20.23%) / PPL (3.94%) /PSEG (7.29%)

Virginia Electric and Power Company (cont.)

Acquirca Trai	ISHIISSIOH EHHANCEHIERIS AIIIUA	ai Kevenue Kequiremeni	Responsible Cusiomer(s)
b2744	Rebuild the Carson – Rogers Rd 500 kV circuit		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: Dominion (100%)
b2745	Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV		Dominion (100%)

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

<u>kequirea 1 ra</u>		Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

Virginia Electric and Power Company (cont.)

required 1	ransmission Ennancements An	inuai Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			Load-Ratio Share
			Allocation:
			AEC (1.69%) / AEP (14.17%)
			/ APS (5.50%) / ATSI (8.04%)
			/ BGE (4.16%) / ComEd
			(13.35%) / ConEd (0.57%) /
	Build a 2nd Loudoun -		Dayton (2.11%) / DEOK
	Brambleton 500 kV line		(3.35%) / DL (1.76%) /
	within the existing ROW.		Dominion (12.32%) / DPL
b2373	The Loudoun -		(2.60%) / ECP** (0.20%) /
02373	Brambleton 230 kV line		EKPC (1.82%) / HTP***
	will be relocated as an		
	underbuild on the new 500 kV line		(0.20%) / JCPL (3.76%) / ME
	K V IIIIC		(1.86%) / NEPTUNE*
			(0.42%) / PECO (5.27%) /
			PENELEC (1.84%) / PEPCO
			(4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			APS (35.00%) / BGE
			(16.48%) / Dominion
			(48.52%)
1.000=	Replace the Beaumeade		
b2397	230 kV breaker		Dominion (100%)
	'2079T2116' with 63kA Replace the Beaumeade		(
b2398	230 kV breaker		
02370	'2079T2130' with 63kA		Dominion (100%)
	Replace the Beaumeade		
b2399	230 kV breaker '208192'		Dominion (100%)
	with 63kA		Dominion (10070)
1.2400	Replace the Beaumeade 230 kV breaker '209592'		
b2400	with 63kA		Dominion (100%)
	Replace the Beaumeade		
b2401	230 kV breaker '211692'		D :: (1000/)
	with 63kA		Dominion (100%)
	Replace the Beaumeade		
b2402	230 kV breaker		Dominion (100%)
	'227T2130' with 63kA		2011111011 (10070)
b2403	Replace the Beaumeade 230 kV breaker		
02403	'274T2130' with 63kA		Dominion (100%)
	= , 11=150 WIMI 05M1	I .	

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA	•	Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H-frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		nual Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel	revenue requirement	Dominion (100%)
b2460.1	H-frames Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required 11	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2471	Replace Midlothian 500 kV breaker 563T576 and motor operated switches with 3 breaker 500 kV ring bus. Terminate Lines # 563 Carson – Midlothian, #576 Midlothian –North Anna, Transformer #2 in new ring		Load-Ratio Share Allocation: AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%)
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto- sectionalizing scheme		Dominion (100%) Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line		Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker		Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker		Dominion (100%)
b2565	Reconductor wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.69%) / AEP (14.17%) /
			APS (5.50%) / ATSI (8.04%) /
			BGE (4.16%) / ComEd
			(13.35%) / ConEd (0.57%) /
			Dayton (2.11%) / DEOK
			(3.35%) / DL (1.76%) /
			Dominion (12.32%) / DPL
	5 1 11 1 51		(2.60%) / ECP** (0.20%) /
b2582	Rebuild the Elmont –		EKPC (1.82%) / HTP***
	Cunningham 500 kV line		(0.20%) / JCPL (3.76%) / ME
			(1.86%) / NEPTUNE*
			(0.42%) / PECO (5.27%) /
			PENELEC (1.84%) / PEPCO
			(4.15%) / PPL (4.43%) / PSEG
			(6.18%) / RE (0.25%)
			DFAX Allocation:
			Dominion (100 93.16%)/
			<u>PEPCO (6.84%)</u>
	Install 500 kV breaker at		
b2583	Ox Substation to remove Ox Tx#1 from H1T561		Dominion (100%)
	breaker failure outage.		, ,
	Relocate the Bremo load		
	(transformer #5) to #2028		
1.2504	(Bremo-Charlottesville		D :: (1000/)
b2584	230 kV) line and Cartersville distribution		Dominion (100%)
	station to #2027 (Bremo-		
	Midlothian 230 kV) line		
	Reconductor 7.63 miles of		
1 2505	existing line between		DFAX Allocation:
b2585	Cranes and Stafford, upgrade associated line		PEPCO (100%)
	switches at Stafford		,
	Wreck and rebuild the		
	Chesapeake – Deep Creek		
b2620	- Bowers Hill - Hodges		
	Ferry 115 kV line;		Dominion (100%)
	minimum rating 239 MVA normal/emergency,		
	275 MVA load dump		
	rating		

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with		Dominion (100%)
	summer emergency rating of 353 MVA at 115 kV Rebuild Line #4 between		
b2623	Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82		
1.2620	Everetts – Voice of America		
	(20.8 miles) to current		Daminian (1000/)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		,
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
1.2620	GSU units #4 and #5. Install		Daminian (1000/)
b2630	two 230 kV CCVT's on		Dominion (100%)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
02017	standards with summer		Dominion (10070)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
1.2640	Dam 115 kV Line #90 (38.7		D :: (1000()
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
b2649	(17.8 miles) to current standards with summer		Dominion (100%)
	emergency rating of 353 MVA at 115 kV.		
	Rebuild Twittys Creek –		
	Pamplin 115 kV Line #154		
	(17.8 miles) to current		
b2650	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
	171 7 11 Wt 11 J IX 7 .		1

Virginia Electric and Power Company (cont.)

Required Trai		ii Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

required 11a	ismission emiancements Annua	ii Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.69%) / AEP (14.17%)
			/ APS (5.50%) / ATSI (8.04%)
			/ BGE (4.16%) / ComEd
			(13.35%) / ConEd (0.57%) /
			Dayton (2.11%) / DEOK
			(3.35%) / DL (1.76%) /
			Dominion (12.32%) / DPL
1.0665	Rebuild the Cunningham –		(2.60%) / ECP** (0.20%) /
b2665	Dooms 500 kV line		EKPC (1.82%) / HTP***
			(0.20%) / JCPL (3.76%) / ME
			(1.86%) / NEPTUNE*
			(0.42%) / PECO (5.27%) /
			PENELEC (1.84%) / PEPCO
			(4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			Dominion (10071.81%)/
			<u>PEPCO (28.19%)</u>
b2686	Pratts Area Improvement		Dominion (100%)
02000	_		Deminen (10070)
	Build a 230 kV line from		
b2686.1	Remington Substation to Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
	Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
02000:12	kV circuit		
b2686.13	Upgrading sections of the		-
	Orange – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		(- 0 0)
126062	Install a 3rd 230/115 kV		D :: (1000/)
b2686.2	transformer at Gordonsville Substation		Dominion (100%)
	Substation		

^{*}Neptune Regional Transmission System, LLC
** East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

required 11al	ismission Enhancements	Annual Revenue Requiremen	it responsible euswiner(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.96%) / BGE (14.37%) / Dominion (35.11%) / DPL (3.76%) / ECP (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME (2.51%) / Neptune (0.63%) / PECO (6.26%) / PEPCO (20.23%) / PPL (3.94%) /PSEG (7.29%)

Virginia Electric and Power Company (cont.)

required Trui	isitiissioii Liitaiteettettis Attitua	if the vertue frequirement - frespons	siole Cusionici(s)
			Load-Ratio Share
			Allocation:
			AEC (1.69%) / AEP
		(14	4.17%) / APS (5.50%) /
			ATSI (8.04%) / BGE
		(4.1)	6%) / ComEd (13.35%) /
		Co	onEd (0.57%) / Dayton
		(2.1	11%) / DEOK (3.35%) /
		D	L (1.76%) / Dominion
1-2744	Rebuild the Carson – Rogers Rd 500 kV circuit	(12	2.32%) / DPL (2.60%) /
b2744		E	CP** (0.20%) / EKPC
		(1.8)	2%) / HTP*** (0.20%) /
		JCP	L (3.76%) / ME (1.86%)
		/ 1	NEPTUNE* (0.42%) /
		PEC	CO (5.27%) / PENELEC
		(1.8	34%) / PEPCO (4.15%) /
		I	PPL (4.43%) / PSEG
		((6.18%) / RE (0.25%)
			DFAX Allocation:
			Dominion (100%)
b2745	Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV		Dominion (100%)
	230 K V		

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

required 118	ansmission Ennancements Annual	Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

Virginia Electric and Power Company (cont.)

Required 11	ransmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.69%) / AEP
			(14.17%) / APS (5.50%) /
			ATSI (8.04%) / BGE
			(4.16%) / ComEd (13.35%) /
			ConEd (0.57%) / Dayton
	D 111 2 11 1		(2.11%) / DEOK (3.35%) /
	Build a 2nd Loudoun - Brambleton 500 kV line		DL (1.76%) / Dominion
	within the existing ROW.		(12.32%) / DPL (2.60%) /
1 2272	The Loudoun -		ECP** (0.20%) / EKPC
b2373	Brambleton 230 kV line		(1.82%) / HTP*** (0.20%) /
	will be relocated as an		JCPL (3.76%) / ME (1.86%)
	underbuild on the new 500 kV line		/ NEPTUNE* (0.42%) /
	K v IIIIe		PECO (5.27%) / PENELEC
			(1.84%) / PEPCO (4.15%) /
			PPL (4.43%) / PSEG
			(6.18%) / RÉ (0.25%)
			DFAX Allocation:
			APS (35.00%) / BGE
		(16.48%) / Dominion	
			(48.52%)
	Replace the Beaumeade		, ,
b2397	230 kV breaker		Dominion (100%)
	'2079T2116' with 63kA Replace the Beaumeade		Dominion (10070)
b2398	230 kV breaker		
02370	'2079T2130' with 63kA		Dominion (100%)
	Replace the Beaumeade		
b2399	230 kV breaker '208192'		Dominion (100%)
	with 63kA Replace the Beaumeade		(2007.0)
b2400	230 kV breaker '209592'		
02100	with 63kA		Dominion (100%)
	Replace the Beaumeade		
b2401	230 kV breaker '211692'		Dominion (100%)
	with 63kA Replace the Beaumeade		()
b2402	230 kV breaker		-
02102	'227T2130' with 63kA		Dominion (100%)
	Replace the Beaumeade		
b2403	230 kV breaker		Dominion (100%)
	'274T2130' with 63kA		2011111011 (10070)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
	Replace the Beaumeade	•	
b2404	230 kV breaker		Dominion (100%)
	'227T2095' with 63kA		Dominion (10070)
1.0.40.5	Replace the Pleasant view		
b2405	230 kV breaker '203T274'		Dominion (100%)
	with 63kA		_ = ===================================
	Construct new underground 230 kV line		
	from Glebe to Station C,		
	rebuild Glebe Substation,		
b2443	construct 230 kV high		Dominion (97.11%) / ME
	side bus at Station C with		(0.18%) / PEPCO (2.71%)
	option to install 800 MVA		
	PAR		
	Replace the Idylwood 230		
b2443.1	kV breaker '203512' with		Dominion (100%)
	50kA		Dominion (10070)
1 2 4 4 2 2	Replace the Ox 230 kV		
b2443.2	breaker '206342' with		Dominion (100%)
	63kA breaker		
			DEAV Allegadien
b2443.3	Glebe – Station C PAR		DFAX Allocation:
			Dominion (22.57%) /
			PEPCO (77.43%)
	Replace 24 115 kV wood		
	h-frames with 230 kV		
b2457	Dominion pole H-frame structures on the		Dominion (100%)
	Clubhouse – Purdy 115		Dominion (10076)
	kV line		
	Replace 12 wood H-frame		
	structures with steel H-		
	frame structures and		
b2458.1	install shunts on all		Dominion (100%)
	conductor splices on		Dominion (10070)
	Carolina – Woodland 115		
	kV Upgrade all line switches		
	and substation		
104505	components at Carolina		
b2458.2	115 kV to meet or exceed		Dominion (100%)
	new conductor rating of		Deminion (10070)
	174 MVA		
	Replace 14 wood H-frame		
b2458.3	structures on Carolina –		Dominion (100%)
	Woodland 115 kV		20111111011 (10070)
12450 4	Replace 2.5 miles of static wire on Carolina –		
b2458.4	Woodland 115 kV		Dominion (100%)
	W Oodiand 113 KV		` '

Virginia Electric and Power Company (cont.)

required 112		nuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
ь2471	Replace Midlothian 500 kV breaker 563T576 and motor operated switches with 3 breaker 500 kV ring bus. Terminate Lines # 563 Carson – Midlothian, #576 Midlothian –North Anna, Transformer #2 in new ring		Load-Ratio Share Allocation: AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%)
			Dominion (100%)
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto- sectionalizing scheme		Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line		Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker		Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker		Dominion (100%)
b2565	Reconductor wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.69%) / AEP (14.17%)
			/ APS (5.50%) / ATSI (8.04%)
			/ BGE (4.16%) / ComEd
			(13.35%) / ConEd (0.57%) /
			Dayton (2.11%) / DEOK
			(3.35%) / DL (1.76%) /
			Dominion (12.32%) / DPL
1.2502	Rebuild the Elmont –		(2.60%) / ECP** (0.20%) /
b2582	Cunningham 500 kV line		EKPC (1.82%) / HTP***
			(0.20%) / JCPL (3.76%) / ME
			(1.86%) / NEPTUNE*
			(0.42%) / PECO (5.27%) /
			PENELEC (1.84%) / PEPCO
			(4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			Dominion (100 93.16%) /
			PEPCO (6.84%)
	Install 500 kV breaker at		
b2583	Ox Substation to remove		Dominion (100%)
	Ox Tx#1 from H1T561 breaker failure outage.		
	Relocate the Bremo load		
	(transformer #5) to #2028		
	(Bremo-Charlottesville		
b2584	230 kV) line and		Dominion (100%)
	Cartersville distribution station to #2027 (Bremo-		
	Midlothian 230 kV) line		
	Reconductor 7.63 miles of		
	existing line between		DFAX Allocation:
b2585	Cranes and Stafford,		PEPCO (100%)
	upgrade associated line switches at Stafford		1 LI CO (10070)
	Wreck and rebuild the		
	Chesapeake – Deep Creek		
b2620	– Bowers Hill – Hodges		
	Ferry 115 kV line;		Dominion (100%)
	minimum rating 239		
	MVA normal/emergency,		
	275 MVA load dump rating		
	Tailing		

Virginia Electric and Power Company (cont.)

Required 11a		ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82 Everetts – Voice of America		
b2628	(20.8 miles) to current		Dominion (100%)
	standards with a summer emergency rating of 261		,
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
b2629	Greenwich 115 kV to Burton 115 kV Structure 27/280 to		Dominion (100%)
02029	current standard with a		Dominion (10078)
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
b2630	GSU units #4 and #5. Install		Dominion (100%)
	two 230 kV CCVT's on Lines #2407 and #2408 for		,
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
1.2626	Reactor at Dahlgren to		D :: (1000()
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
02047	standards with summer		Bommon (10070)
	emergency rating of 353		
	MVA at 115 kV. Rebuild Carolina – Kerr		
	Dam 115 kV Line #90 (38.7		
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		,
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse – Carolina 115 kV Line #130		
b2649	(17.8 miles) to current		
	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Twittys Creek –		
	Pamplin 115 kV Line #154 (17.8 miles) to current		
b2650	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		

Virginia Electric and Power Company (cont.)

Required Trai		ii Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

required Tra	isilission Emianeements Amitua	ii Revenue Requirement	Responsible Cusionici(s)
			Load-Ratio Share
			Allocation:
			AEC (1.69%) / AEP (14.17%)
			/ APS (5.50%) / ATSI (8.04%)
			/ BGE (4.16%) / ComEd
			(13.35%) / ConEd (0.57%) /
			<u>Dayton (2.11%) / DEOK</u>
			(3.35%) / DL (1.76%) /
			<u>Dominion (12.32%) / DPL</u>
b2665	Rebuild the Cunningham –		(2.60%) / ECP** (0.20%) /
02003	Dooms 500 kV line		EKPC (1.82%) / HTP***
			(0.20%) / JCPL (3.76%) / ME
			(1.86%) / NEPTUNE*
			(0.42%) / PECO (5.27%) /
			PENELEC (1.84%) / PEPCO
			(4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			Dominion (100 <u>71.81</u> %)/
			<u>PEPCO (28.19%)</u>
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
1.2606.1	Remington Substation to		D :: (1000/)
b2686.1	Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
1.2000 11	Upgrading sections of the		Daninian (1000/)
b2686.11	Gordonsville – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
	kV circuit		
h2696 12	Upgrading sections of the Orange – Somerset 115 kV		Dominion (1000/)
b2686.13	circuit		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		
b2686.2	Install a 3rd 230/115 kV transformer at Gordonsville		Dominion (100%)
02000.2	Substation		Dominion (10070)
	i .	i	

^{*}Neptune Regional Transmission System, LLC

^{**} East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

required 11al		Annual Revenue Requiremen	it responsible euswiner(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.96%) / BGE (14.37%) / Dominion (35.11%) / DPL (3.76%) / ECP (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME (2.51%) / Neptune (0.63%) / PECO (6.26%) / PEPCO (20.23%) / PPL (3.94%) / PSEG (7.29%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.69%) / AEP
			(14.17%) / APS (5.50%) /
			ATSI (8.04%) / BGE
			(4.16%) / ComEd (13.35%) /
			ConEd (0.57%) / Dayton
			(2.11%) / DEOK (3.35%) /
			DL (1.76%) / DPL (2.60%) /
b2744	Rebuild the Carson – Rogers		ECP** (0.20%) / Dominion
02/44	Rd 500 kV circuit		(12.32%) / EKPC (1.82%) /
			HTP*** (0.20%) / JCPL
			(3.76%) / ME (1.86%) /
			NEPTUNE* (0.42%) /
			PECO (5.27%) / PENELEC
			(1.84%) / PEPCO (4.15%) /
			PPL (4.43%) / PSEG
			(6.18%) / RE (0.25%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 21.32 miles of		
b2745	existing line between Chesterfield – Lakeside 230 kV		Dominion (100%)
	Rebuild Line #137 Ridge Rd		
b2746.1	– Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer		Dominion (100%)
0271011			
	emergency rating Rebuild Line #1009 Ridge Rd		
1.0746.0	- Chase City 115 kV, 9.5		Daminian (1000/)
b2746.2	miles, for 346 MVA summer		Dominion (100%)
	emergency rating Install a second 4.8 MVAR		
b2746.3	capacitor bank on the 13.8 kV		
	bus of each transformer at		Dominion (100%)
	Ridge Rd		
	Install a Motor Operated		
b2747	Switch and SCADA control		Daminian (1000/)
	between Dominion's Gordonsville 115 kV bus and	Dominion (100%)	Dominion (100%)
	FirstEnergy's 115 kV line		
L		1	

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Ira		Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker	Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker	Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker	Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

Virginia Electric and Power Company (cont.)

Required 11	ransmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: APS (35.00%) / BGE (16.48%) / Dominion (48.52%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA	•	Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H-frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		nual Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel	revenue requirement	Dominion (100%)
b2460.1	H-frames Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required 113	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2471	Replace Midlothian 500 kV breaker 563T576 and motor operated switches with 3 breaker 500 kV ring bus. Terminate Lines # 563 Carson – Midlothian, #576 Midlothian –North Anna, Transformer #2 in new ring		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%)
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto- sectionalizing scheme		Dominion (100%) Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line		Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker		Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker		Dominion (100%)
b2565	Reconductor wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Ani	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			<u>AEC (1.70%) / AEP</u>
			(14.25%) / APS (5.53%) /
			ATSI (8.09%) / BGE
			(4.19%) / ComEd (13.43%) /
			Dayton (2.12%) / DEOK
			(3.37%) / DL (1.77%) /
			Dominion (12.39%) / DPL
			(2.62%) / ECP** (0.20%) /
b2582	Rebuild the Elmont –		EKPC (1.82%) / HTP***
02382	Cunningham 500 kV line		
			(0.20%) / JCPL (3.78%) /
			ME (1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			<u>PENELEC (1.84%) /</u>
			<u>PEPCO (4.18%) / PPL</u>
			(4.46%) / PSEG (6.22%) /
			<u>RE (0.25%)</u>
			DFAX Allocation:
			Dominion (100 <u>93.16</u> %)/
	* 11 -00 1 * 1		<u>PEPCO (6.84%)</u>
	Install 500 kV breaker at		
b2583	Ox Substation to remove Ox Tx#1 from H1T561		Dominion (100%)
	breaker failure outage.		
	Relocate the Bremo load		
	(transformer #5) to #2028		
	(Bremo-Charlottesville		
b2584	230 kV) line and		Dominion (100%)
	Cartersville distribution station to #2027 (Bremo-		
	Midlothian 230 kV) line		
	Reconductor 7.63 miles of		
	existing line between		DFAX Allocation:
b2585	Cranes and Stafford,		PEPCO (100%)
	upgrade associated line		1 El CO (10070)
	switches at Stafford Wreck and rebuild the		
	Chesapeake – Deep Creek		
b2620	- Bowers Hill - Hodges		
	Ferry 115 kV line;		Dominion (100%)
	minimum rating 239		Dominion (100%)
	MVA normal/emergency,		
	275 MVA load dump		
	rating		

Virginia Electric and Power Company (cont.)

Required Tra		ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82 Everetts – Voice of America		
b2628	(20.8 miles) to current		Dominion (100%)
	standards with a summer emergency rating of 261		,
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
b2629	Greenwich 115 kV to Burton 115 kV Structure 27/280 to		Dominion (100%)
02029	current standard with a		Dominion (10078)
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
b2630	GSU units #4 and #5. Install		Dominion (100%)
	two 230 kV CCVT's on Lines #2407 and #2408 for		,
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
1.2626	Reactor at Dahlgren to		D :: (1000()
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
02047	standards with summer		Bommon (10070)
	emergency rating of 353		
	MVA at 115 kV. Rebuild Carolina – Kerr		
	Dam 115 kV Line #90 (38.7		
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		,
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse – Carolina 115 kV Line #130		
b2649	(17.8 miles) to current		
	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Twittys Creek –		
	Pamplin 115 kV Line #154 (17.8 miles) to current		
b2650	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		

Virginia Electric and Power Company (cont.)

Required Trai		ii Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

required 11a	ismission emiancements Annua	ii Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			<u>AEC (1.70%) / AEP</u>
			(14.25%) / APS (5.53%) /
			ATSI (8.09%) / BGE
			(4.1 9%) / ComEd (13.43 %) /
			Dayton (2.12%) / DEOK
			(3.37%) / DL (1.77%) /
			Dominion (12.39%) / DPL
	Rebuild the Cunningham –		(2.62%) / ECP** (0.20%) /
b2665	Dooms 500 kV line		EKPC (1.82%) / HTP***
	Booms 200 M v Imie		(0.20%) / JCPL (3.78%) /
			ME (1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) /
			PSEG (6.22%) / RE (0.25%)
			DFAX Allocation:
			Dominion (10071.81%)/
			<u>PEPCO (28.19%)</u>
b2686	Pratts Area Improvement		Dominion (100%)
02000	_		Dominion (10070)
	Build a 230 kV line from		
b2686.1	Remington Substation to Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
	Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit		
1,2696 12	Upgrading sections of the		Daminian (1000/)
b2686.12	Somerset – Doubleday 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	circuit		` ′
b2686.14	Upgrading sections of the		D (1000()
	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
02000.2	Substation		2 5

^{*}Neptune Regional Transmission System, LLC

^{**} East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

Kequiled 11ai	ISITIISSIOII EIIIIAIICEITIEIIIS A	Annuai Revenue Requiremen	it responsible cusionici(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.96%) / BGE (14.37%) / Dominion (35.11%) / DPL (3.76%) / ECP (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME (2.51%) / Neptune (0.63%) / PECO (6.26%) / PEPCO (20.23%) / PPL (3.94%) /PSEG (7.29%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2744	Rebuild the Carson – Rogers Rd 500 kV circuit		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: Dominion (100%)
b2745	Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV		Dominion (100%)
b2746.1	Rebuild Line #137 Ridge Rd - Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer emergency rating		Dominion (100%)
b2746.2	Rebuild Line #1009 Ridge Rd - Chase City 115 kV, 9.5 miles, for 346 MVA summer emergency rating		Dominion (100%)
b2746.3	Install a second 4.8 MVAR capacitor bank on the 13.8 kV bus of each transformer at Ridge Rd		Dominion (100%)
b2747	Install a Motor Operated Switch and SCADA control between Dominion's Gordonsville 115 kV bus and FirstEnergy's 115 kV line		Dominion (100%)

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

required 118	ansmission Ennancements Annual	Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b	2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b	2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b	2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

Virginia Electric and Power Company (cont.)

Build a 2nd Loudoun	Required 1	ransmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / ABF (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / Comed (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL within the existing ROW. The Loudoun-Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 mEAX Allocation: APS (35.00%) / PECO (5.30%) / PECO (5.30%) / PEGE (6.22%) / RE (0.25%) DFAX Allocation: APS (35.00%) / BGE (16.48%) / Dominion (100%) PSEG (6.22%) / RE (0.25%) DFAX Allocation: APS (35.00%) / BGE (16.48%) / Dominion (100%) PSEG (6.22%) / RE (0.25%) PSEG (6.22%) PSEG (6.22%) PS				
Build a 2nd Loudoun-Brambleton 500 kV line within the existing ROW. The Loudoun-Brambleton 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the Beaumeade b230 kV breaker '2079712116' with 63kA Replace the Beaumeade b2400 Replace the Beaumeade b2401 Replace the Beaumeade b2402 Replace the Beaumeade b2402 Replace the Beaumeade b2402 Replace the Beaumeade b2403 kV breaker '22772130' with 63kA Replace the Beaumeade b2404 Replace the Beaumeade b2404 Replace the Beaumeade b2405 Replace the Beaumeade b2406 Replace the Beaumeade b2407 Replace the Beaumeade b2408 Replace the Beaumeade b2408 Replace the Beaumeade b2409 Replace the Beaumeade b2400 Replace the Beaumeade				
Build a 2nd Loudoun - Brambleton 500 kV line Within the existing ROW. The Loudoun - Brambleton 230 kV line William to the new 500 kV line William to the				` /
Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line PENELEC (1.82%) / HETO (3.37%) / DEPL (3.78%) / PENELEC (1.84%) / PEPCO (4.18%) / PEPCO (4.				(14.25%) / APS (5.53%) /
Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: APS (35.00%) / BGE (16.48%) / Dominion (100%) Dominion (100%				
Build a 2nd Loudoun				(4.19%) / ComEd (13.43%) /
Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 method (0.42%) / PEPCO (4.18%) / PEPCO (4.				Dayton (2.12%) / DEOK
within the existing ROW. The Loudoun Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: APS (35.00%) / BGE (16.48%) / Dominion (48.52%) Dominion (100%) PSEG (6.22%) / RE (0.25%) DFAX Allocation: APS (35.00%) / BGE (16.48%) / Dominion (100%) DFAX Allocation: APS (35.00%) / BGE (16.48%) / Dominion (100%) Dom		Build a 2nd Loudoun -		(3.37%) / DL (1.77%) /
The Loudoun				Dominion (12.39%) / DPL
Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PEPCO (4.18%) / PEPCO (4.18%) / PEG (6.22%) / RE (0.25%) DFAX Allocation: APS (35.00%) / BGE (16.48%) / Dominion (48.52%) Dominion (100%) PERPLEC (1.84%) / Dominion (48.52%) Dominion (100%) PERPLEC (1.84%) / PEPCO (4.18%) / PEPCO				
will be relocated as an underbuild on the new 500 kV line	b2373			EKPC (1.82%) / HTP***
Underbuild on the new 500 kV line				(0.20%) / JCPL (3.78%) /
PENELEC (1.84%) / PEPCO (4.18%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)		underbuild on the new 500		ME (1.87%) / NEPTUNE*
(4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)		kV line		(0.42%) / PECO (5.30%) /
PSEG (6.22%) / RE (0.25%) DFAX Allocation: APS (35.00%) / BGE (16.48%) / Dominion (48.52%)				` ,
DFAX Allocation: APS (35.00%) / BGE (16.48%) / Dominion (48.52%)				(4.18%) / PPL (4.46%) /
APS (35.00%) / BGE (16.48%) / Dominion (48.52%)				PSEG (6.22%) / RE (0.25%)
Commission (100%) Replace the Beaumeade 230 kV breaker 2079T2116' with 63kA Dominion (100%)				DFAX Allocation:
Replace the Beaumeade 230 kV breaker 2079T2130' with 63kA Dominion (100%)				APS (35.00%) / BGE
Replace the Beaumeade 230 kV breaker 2079T2116' with 63kA Dominion (100%)				(16.48%) / Dominion
b2397				(48.52%)
'2079T2116' with 63kA Dominion (100%)	1 2205	Replace the Beaumeade		
Replace the Beaumeade 230 kV breaker 2079T2130' with 63kA Dominion (100%)	b2397			Dominion (100%)
b2398				` ,
Replace the Beaumeade 230 kV breaker '208192' with 63kA Dominion (100%)	b2398			Daminian (1000/)
b2399				Dominion (100%)
with 63kA Replace the Beaumeade 230 kV breaker '209592' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker '227T2130' with 63kA Replace the Beaumeade 230 kV breaker Dominion (100%)	1 2200			
Replace the Beaumeade 230 kV breaker '209592' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker '227T2130' with 63kA Replace the Beaumeade 230 kV breaker 230 kV breaker Pominion (100%)	62399			Dominion (100%)
b2400				
Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker 230 kV breaker b2402 Replace the Beaumeade 230 kV breaker b2403 Replace the Beaumeade 230 kV breaker Pominion (100%)	b2400	230 kV breaker '209592'		Dominion (100%)
b2401				Dominion (10070)
with 63kA Replace the Beaumeade 230 kV breaker '227T2130' with 63kA Replace the Beaumeade b2403 Replace the Beaumeade 230 kV breaker Participant (100%)	h2401	Keplace the Beaumeade		
Replace the Beaumeade 230 kV breaker '227T2130' with 63kA Replace the Beaumeade 230 kV breaker Participation (100%)	02401			Dominion (100%)
b2402		Replace the Beaumeade		
Replace the Beaumeade b2403	b2402	230 kV breaker		Dominion (100%)
b2403 230 kV breaker				Dominion (10070)
	h2403	230 kV breaker		
	02703			Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H-frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

required 112		nuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2471	Replace Midlothian 500 kV breaker 563T576 and motor operated switches with 3 breaker 500 kV ring bus. Terminate Lines # 563 Carson – Midlothian, #576 Midlothian –North Anna, Transformer #2 in new ring		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)
			DFAX Allocation: Dominion (100%)
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto- sectionalizing scheme		Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line		Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker		Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker		Dominion (100%)
b2565	Reconductor wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements And	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			<u>AEC (1.70%) / AEP</u>
			(14.25%) / APS (5.53%) /
			<u>ATSI (8.09%) / BGE</u>
			(4.19%) / ComEd (13.43%) /
			<u>Dayton (2.12%) / DEOK</u>
			(3.37%) / DL (1.77%) /
			Dominion (12.39%) / DPL
b2582	Rebuild the Elmont –		(2.62%) / ECP** (0.20%) /
02382	Cunningham 500 kV line		EKPC (1.82%) / HTP***
			(0.20%) / JCPL (3.78%) /
			ME (1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) /
			PSEG (6.22%) / RE (0.25%)
			DFAX Allocation:
			Dominion (100 93.16%)/
			<u>PEPCO (6.84%)</u>
	Install 500 kV breaker at		
b2583	Ox Substation to remove Ox Tx#1 from H1T561		Dominion (100%)
	breaker failure outage.		,
	Relocate the Bremo load		
	(transformer #5) to #2028		
1.2504	(Bremo-Charlottesville		D :: (1000/)
b2584	230 kV) line and Cartersville distribution		Dominion (100%)
	station to #2027 (Bremo-		
	Midlothian 230 kV) line		
	Reconductor 7.63 miles of		
1.2505	existing line between		DFAX Allocation:
b2585	Cranes and Stafford, upgrade associated line		PEPCO (100%)
	switches at Stafford		
	Wreck and rebuild the		
b2620	Chesapeake – Deep Creek		
	- Bowers Hill - Hodges		
	Ferry 115 kV line; minimum rating 239		Dominion (100%)
	MVA normal/emergency,		
	275 MVA load dump		
	rating		

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82		
	Everetts – Voice of America		
1-2620	(20.8 miles) to current		Daminian (1000/)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
b2630	GSU units #4 and #5. Install		Dominion (100%)
02030	two 230 kV CCVT's on		Bommon (10070)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
1-2626	Reactor at Dahlgren to		Daminian (1000/)
b2636	provide line protection		Dominion (100%)
	during maintenance, remove the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
1.0.64=	(8.3 miles) to current		5 (1000)
b2647	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
	Dam 115 kV Line #90 (38.7		
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		, ,
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
b2649	(17.8 miles) to current		Dominion (100%)
	standards with summer		
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Twittys Creek –		
	Pamplin 115 kV Line #154		
b2650	(17.8 miles) to current standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
L	IVI V A at II J K V .		

Virginia Electric and Power Company (cont.)

Required Trai		a Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annua	I Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			<u>AEC (1.70%) / AEP</u>
			(14.25%) / APS (5.53%) /
			<u>ATSI (8.09%) / BGE</u>
			(4.19%) / ComEd (13.43%) /
			<u>Dayton (2.12%) / DEOK</u>
			(3.37%) / DL (1.77%) /
			<u>Dominion (12.39%) / DPL</u>
b2665	Rebuild the Cunningham –		(2.62%) / ECP** (0.20%) /
02003	Dooms 500 kV line		EKPC (1.82%) / HTP***
			(0.20%) / JCPL (3.78%) /
			ME (1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) /
			PSEG (6.22%) / RE (0.25%)
			DFAX Allocation:
			Dominion (100 <u>71.81</u> %)/
			<u>PEPCO (28.19%)</u>
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
	Remington Substation to		
b2686.1	Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
1260611	Upgrading sections of the		D :: (1000/)
b2686.11	Gordonsville – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
	kV circuit		` ′
L2696 12	Upgrading sections of the		Dominia: (1000/)
b2686.13	Orange – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		
b2686.2	Install a 3rd 230/115 kV transformer at Gordonsville		Dominion (100%)
02080.2	Substation		Dominion (10070)
	i		

^{*}Neptune Regional Transmission System, LLC

^{**} East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

Kequiled 11ai	ISITIISSIOII EIIIIAIICEITIEIIIS A	Annuai Revenue Requiremen	it responsible cusionici(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.96%) / BGE (14.37%) / Dominion (35.11%) / DPL (3.76%) / ECP (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME (2.51%) / Neptune (0.63%) / PECO (6.26%) / PEPCO (20.23%) / PPL (3.94%) /PSEG (7.29%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2744	Rebuild the Carson – Rogers Rd 500 kV circuit		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%)
b2745	Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV		Dominion (100%)
b2746.1	Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer		Dominion (100%)
b2746.2	Rebuild Line #1009 Ridge Rd - Chase City 115 kV, 9.5 miles, for 346 MVA summer emergency rating		Dominion (100%)
b2746.3	Install a second 4.8 MVAR capacitor bank on the 13.8 kV bus of each transformer at Ridge Rd		Dominion (100%)
b2747	Install a Motor Operated Switch and SCADA control between Dominion's Gordonsville 115 kV bus and FirstEnergy's 115 kV line	_	Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tran		al Revenue Requirement I	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
b2758	Rebuild Line #549 Dooms – Valley 500kV		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: APS (0.09%) / DL (0.03%) / Dominion (10099.88%)
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: APS (87.50%) / ATSI (0.37%) / DL (0.19%) / Dominion (1001.04%) / EKPC (10.90%)

Virginia Electric and Power Company (cont.)

b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end-of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating	Dominion (100%)
b2815	of 393 MVA at 115kV Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus	Dominion (100%)

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Tra	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 11	ansmission ennancements Annual	Revenue Requirement Responsible Customer(s)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker	Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA	Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA	Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA	Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA	Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA	Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA	Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA	Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Ana	nual Revenue Requirement	Responsible Customer(s)
	Replace the Beaumeade	-	
b2404	230 kV breaker		D :: (1000/)
	'227T2095' with 63kA		Dominion (100%)
	Replace the Pleasant view		
b2405	230 kV breaker '203T274'		D (1000/)
	with 63kA		Dominion (100%)
	Construct new		
	underground 230 kV line		
	from Glebe to Station C,		
10440	rebuild Glebe Substation,		D : : (07.110/) /3.6F
b2443	construct 230 kV high		Dominion (97.11%) / ME
	side bus at Station C with		(0.18%) / PEPCO (2.71%)
	option to install 800 MVA		
	PAR		
	Replace the Idylwood 230		
b2443.1	kV breaker '203512' with		
02113.1	50kA		Dominion (100%)
	Replace the Ox 230 kV		
b2443.2	breaker '206342' with		
02113.2	63kA breaker		Dominion (100%)
	00111 1 010111101		
			DFAX Allocation:
b2443.3	Glebe – Station C PAR		
			Dominion (22.57%) /
			PEPCO (77.43%)
	Replace 24 115 kV wood		
	h-frames with 230 kV		
b2457	Dominion pole H-frame		
02437	structures on the		Dominion (100%)
	Clubhouse – Purdy 115		
	kV line		
	Replace 12 wood H-frame		
	structures with steel H-		
	frame structures and		
b2458.1	install shunts on all		Dominion (100%)
	conductor splices on		Dominion (10070)
	Carolina – Woodland 115		
	kV		
	Upgrade all line switches		
	and substation		
b2458.2	components at Carolina		D
02 13 0.2	115 kV to meet or exceed		Dominion (100%)
	new conductor rating of		
	174 MVA		
104503	Replace 14 wood H-frame		
b2458.3	structures on Carolina –		Dominion (100%)
	Woodland 115 kV		20111111011 (10070)
	Replace 2.5 miles of static		
b2458.4	wire on Carolina –		Dominion (100%)
	Woodland 115 kV		Dominion (10070)

Virginia Electric and Power Company (cont.)

Required Tra		nual Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel	revenue requirement	Dominion (100%)
b2460.1	H-frames Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
ь2471	Replace Midlothian 500 kV breaker 563T576 and motor operated switches with 3 breaker 500 kV ring bus. Terminate Lines # 563 Carson – Midlothian, #576 Midlothian –North Anna, Transformer #2 in new ring		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%)
			DFAX Allocation: Dominion (100%)
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto- sectionalizing scheme		Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line		Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker		Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker		Dominion (100%)
b2565	Reconductor wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements And	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			<u>AEC (1.70%) / AEP</u>
			(14.25%) / APS (5.53%) /
			ATSI (8.09%) / BGE
			(4.19%) / ComEd (13.43%) /
			Dayton (2.12%) / DEOK
			(3.37%) / DL (1.77%) /
			Dominion (12.39%) / DPL
1.2502	Rebuild the Elmont –		(2.62%) / ECP** (0.20%) /
b2582	Cunningham 500 kV line		EKPC (1.82%) / HTP***
			(0.20%) / JCPL (3.78%) /
			ME (1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) /
			PSEG (6.22%) / RE (0.25%)
			DFAX Allocation:
			Dominion (100 93.16%) /
			PEPCO (6.84%)
	Install 500 kV breaker at		
b2583	Ox Substation to remove Ox Tx#1 from H1T561		Dominion (100%)
	breaker failure outage.		
	Relocate the Bremo load		
	(transformer #5) to #2028		
1.0504	(Bremo-Charlottesville		D :: (1000/)
b2584	230 kV) line and Cartersville distribution		Dominion (100%)
	station to #2027 (Bremo-		
	Midlothian 230 kV) line		
	Reconductor 7.63 miles of		
1.2505	existing line between		DFAX Allocation:
b2585	Cranes and Stafford, upgrade associated line		PEPCO (100%)
	switches at Stafford		, , ,
	Wreck and rebuild the		
b2620	Chesapeake – Deep Creek		
	– Bowers Hill – Hodges Ferry 115 kV line;		
	minimum rating 239		Dominion (100%)
	MVA normal/emergency,		
	275 MVA load dump		
	rating		

Virginia Electric and Power Company (cont.)

Required 1ra		ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82		
12620	Everetts – Voice of America		
	(20.8 miles) to current		Daminian (1000/)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		,
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
1.2620	GSU units #4 and #5. Install		Daminian (1000/)
b2630	two 230 kV CCVT's on		Dominion (100%)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
02017	standards with summer		Dominion (10070)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
1.2640	Dam 115 kV Line #90 (38.7		D :: (1000()
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
b2649	(17.8 miles) to current standards with summer		Dominion (100%)
	emergency rating of 353 MVA at 115 kV.		
	Rebuild Twittys Creek –		
	Pamplin 115 kV Line #154		
b2650	(17.8 miles) to current		
	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
	171 7 11 Wt 11 J IX 7 .		1

Virginia Electric and Power Company (cont.)

Required Trai		ii Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annua	I Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			<u>AEC (1.70%) / AEP</u>
			(14.25%) / APS (5.53%) /
			<u>ATSI (8.09%) / BGE</u>
			(4.19%) / ComEd (13.43%) /
			<u>Dayton (2.12%) / DEOK</u>
			(3.37%) / DL (1.77%) /
			<u>Dominion (12.39%) / DPL</u>
b2665	Rebuild the Cunningham –		(2.62%) / ECP** (0.20%) /
02003	Dooms 500 kV line		EKPC (1.82%) / HTP***
			(0.20%) / JCPL (3.78%) /
			ME (1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) /
			PSEG (6.22%) / RE (0.25%)
			DFAX Allocation:
			Dominion (100 <u>71.81</u> %)/
			<u>PEPCO (28.19%)</u>
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
	Remington Substation to		
b2686.1	Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
1260611	Upgrading sections of the		D :: (1000/)
b2686.11	Gordonsville – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
	kV circuit		` ′
L2696 12	Upgrading sections of the		Dominia: (1000/)
b2686.13	Orange – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		
b2686.2	Install a 3rd 230/115 kV transformer at Gordonsville		Dominion (100%)
02000.2	Substation		Dominion (10070)
	i		

^{*}Neptune Regional Transmission System, LLC

^{**} East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements	Annual Revenue Requiremen	it Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.96%) / BGE (14.37%) / Dominion (35.11%) / DPL (3.76%) / ECP (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME (2.51%) / Neptune (0.63%) / PECO (6.26%) / PEPCO (20.23%) / PPL (3.94%) /PSEG (7.29%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2744	Rebuild the Carson – Rogers Rd 500 kV circuit		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%)
b2745	Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV		Dominion (100%) Dominion (100%)
b2746.1	Rebuild Line #137 Ridge Rd - Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer emergency rating		Dominion (100%)
b2746.2	Rebuild Line #1009 Ridge Rd - Chase City 115 kV, 9.5 miles, for 346 MVA summer emergency rating		Dominion (100%)
b2746.3	Install a second 4.8 MVAR capacitor bank on the 13.8 kV bus of each transformer at Ridge Rd		Dominion (100%)
b2747	Install a Motor Operated Switch and SCADA control between Dominion's Gordonsville 115 kV bus and FirstEnergy's 115 kV line		Dominion (100%)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

K	equired 1 ran	ismission Enhancements Annua	Revenue Requirement	Responsible Customer(s)
				Load-Ratio Share
				Allocation:
				AEC (1.70%) / AEP (14.25%)
				APS (5.53%) / ATSI (8.09%)
				/ BGE (4.19%) / ComEd
				(13.43%) / Dayton (2.12%) /
				DEOK (3.37%) / DL (1.77%)
				/ Dominion (12.39%) / DPL
				(2.62%) / ECP** (0.20%) /
	b2758	Rebuild Line #549 Dooms –		EKPC (1.82%) / HTP***
	02730	Valley 500kV		(0.20%) / JCPL (3.78%) / ME
				(1.87%) / NEPTUNE*
				(0.42%) / PECO (5.30%) /
				PENELEC (1.84%) / PEPCO
				(4.18%) / PPL (4.46%) /
				PSEG (6.22%) / RE (0.25%)
				DFAX Allocation:
				APS (0.09%) / DL (0.03%) /
				Dominion (10099.88%)
ŀ				Load-Ratio Share
				Allocation:
				AEC (1.70%) / AEP (14.25%)
				APS (5.53%) / ATSI (8.09%)
				/ BGE (4.19%) / ComEd
				· ,
				(13.43%) / Dayton (2.12%) /
		Rebuild Line #550 Mt.		DEOK (3.37%) / DL (1.77%)
				/ Dominion (12.39%) / DPL
				(2.62%) / ECP** (0.20%) /
	b2759			EKPC (1.82%) / HTP***
	02,09	Storm – Valley 500kV		(0.20%) / JCPL (3.78%) / ME
				(1.87%) / NEPTUNE*
				(0.42%) / PECO (5.30%) /
				PENELEC (1.84%) / PEPCO
				(4.18%) / PPL (4.46%) /
				PSEG (6.22%) / RE (0.25%)
				DFAX Allocation:
				APS (87.50%) / ATSI (0.37%)
				/ DL (0.19%) / Dominion
				(100 1.04%) / EKPC (10.90%)
Į				$(100\underline{1.01},0)$ $/$ LIKI \times $(10.50,0)$

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annua	I Revenue Requirement	Responsible Customer(s)
	Rebuild Line #171 from		
	Chase City – Boydton Plank		
	Road tap by removing end- of-life facilities and		
b2802	installing 9.4 miles of new conductor. The conductor		Dominion (100%)
	used will be at current		
	standards with a summer		
	emergency rating of 393		
	MVA at 115kV		
	Build a new Pinewood		
	115kV switching station at		
b2815	the tap serving North		Dominion (100%)
02013	Doswell DP with a 115kV		Dominion (10070)
	four breaker ring bus		
	Update the nameplate for		
b2842	Mount Storm 500 kV		Dominion (100%)
02042	"57272" to be 50kA breaker		Dominion (10070)
	Replace the Mount Storm		
b2843	500 kV "G2TY" with 50kA		Dominion (100%)
020.0	breaker		
	Replace the Mount		
b2844	Storm 500 kV "G2TZ" with		Dominion (100%)
	50kA breaker		
	Update the nameplate for		
b2845	Mount Storm 500 kV		Dominion (100%)
02043	"G3TSX1" to be 50kA		Dominion (10070)
	breaker		
4.504.6	Update the nameplate for		
b2846	Mount Storm 500 kV		Dominion (100%)
	"SX172" to be 50kA breaker		
1.20.45	Update the nameplate for		D :: (1000()
b2847	Mount Storm 500 kV "Y72"		Dominion (100%)
	to be 50kA breaker		
1.2040	Replace the Mount		D :: (1000/)
b2848	Storm 500 kV "Z72" with		Dominion (100%)
	50kA breaker Rebuild 230 kV line #247		
b2871	from Swamp to Suffolk (31 miles) to current		
	standards with a summer		Dominion (100%)
	emergency rating of 1047		, , ,
	MVA at 230 kV		
	IVI V FI at LJU K V		

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required 1ra		Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
ь1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 11		Revenue Requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

	aal Revenue Requirement	Responsible Customer(s)
Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)
230 kV breaker '227T2095' with 63kA		Dominion (100%)
230 kV breaker '203T274' with 63kA		Dominion (100%)
230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
kV breaker '203512' with 50kA		Dominion (100%)
Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
Replace 24 115 kV wood h- frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
structures on Carolina – Woodland 115 kV		Dominion (100%)
Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)
	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA Replace the Beaumeade 230 kV breaker '227T2095' with 63kA Replace the Pleasant view 230 kV breaker '203T274' with 63kA Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR Replace the Idylwood 230 kV breaker '203512' with 50kA Replace the Ox 230 kV breaker '206342' with 63kA breaker Glebe – Station C PAR Replace 24 115 kV wood h- frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA Replace 14 wood H-frame structures on Carolina – Woodland 115 kV Replace 2.5 miles of static wire on Carolina –	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA Replace the Beaumeade 230 kV breaker '227T2095' with 63kA Replace the Pleasant view 230 kV breaker '203T274' with 63kA Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR Replace the Idylwood 230 kV breaker '203512' with 50kA Replace the Ox 230 kV breaker '206342' with 63kA breaker Glebe – Station C PAR Replace 24 115 kV wood h- frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA Replace 14 wood H-frame structures on Carolina – Woodland 115 kV Replace 2.5 miles of static wire on Carolina –

Virginia Electric and Power Company (cont.)

Required Tra		nual Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel	revenue requirement	Dominion (100%)
b2460.1	H-frames Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

required 11	ansmission Emancements Amuai	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI (7.88%)
			/ BGE (4.22%) / ComEd
	Replace Midlothian 500 kV		(13.31%) / Dayton (2.11%) /
	breaker 563T576 and motor		DEOK (3.29%) / DL (1.75%) /
	operated switches with 3		DPL (2.50%) / Dominion
b2471	breaker 500 kV ring bus.		(12.86%) / EKPC (1.87%) /
024/1	Terminate Lines # 563 Carson		JCPL (3.74%) / ME (1.90%) /
	– Midlothian, #576		` ' ' ` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
	Midlothian –North Anna,		NEPTUNE* (0.44%) / PECO
	Transformer #2 in new ring		(5.34%) / PENELEC (1.89%) /
			PEPCO (3.99%) / PPL (4.84%)
			/ PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 115 kV Line #32		
	from Halifax-South Boston (6		
b2504	miles) for min. of 240 MVA and transfer Welco tap to Line		
02304	#32. Moving Welco to Line		Dominion (100%)
	#32 requires disabling auto-		
	sectionalizing scheme		
	Install structures in river to		
b2505	remove the 115 kV #65 line		
62303	(Whitestone-Harmony Village 115 kV) from bridge and		Dominion (100%)
	improve reliability of the line		
	Replace the Loudoun 500 kV		
b2542	'H2T502' breaker with a		Dominion (100%)
	50kA breaker		Dominion (10070)
h2542	Replace the Loudoun 500 kV 'H2T584' breaker with a		
b2543	50kA breaker		Dominion (100%)
	Reconductor wave trap at		` , ,
b2565	Carver Substation with a		Daminia (1000/)
	2000A wave trap		Dominion (100%)
	Reconductor 1.14 miles of		
b2566	existing line between ACCA		D (1000/)
02200	and Hermitage and upgrade		Dominion (100%)
	associated terminal equipment		

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%) /
			APS (5.73%) / ATSI (7.88%) /
			BGE (4.22%) / ComEd
			(13.31%) / Dayton (2.11%) /
			DEOK (3.29%) / DL (1.75%) /
			DPL (2.50%) / Dominion
b2582	Rebuild the Elmont –		(12.86%) / EKPC (1.87%) /
02002	Cunningham 500 kV line		JCPL (3.74%) / ME (1.90%) /
			NEPTUNE* (0.44%) / PECO
			(5.34%) / PENELEC (1.89%) /
			PEPCO (3.99%) / PPL (4.84%)
			/ PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Install 500 kV breaker at		2 0 (10070)
b2583	Ox Substation to remove		Daminian (1009/)
02383	Ox Tx#1 from H1T561		Dominion (100%)
	breaker failure outage.		
	Relocate the Bremo load		
	(transformer #5) to #2028 (Bremo-Charlottesville		
b2584	230 kV) line and		Dominion (100%)
02304	Cartersville distribution		Bollimon (10070)
	station to #2027 (Bremo-		
	Midlothian 230 kV) line		
	Reconductor 7.63 miles of		
1 2505	existing line between		DFAX Allocation:
b2585	Cranes and Stafford, upgrade associated line		PEPCO (100%)
	switches at Stafford		,
	Wreck and rebuild the		
b2620	Chesapeake – Deep Creek		
	– Bowers Hill – Ĥodges		
	Ferry 115 kV line;		Dominion (100%)
	minimum rating 239		20111111011 (10070)
	MVA normal/emergency,		
	275 MVA load dump rating		
	Tuilig		

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82		
1.2729	Everetts – Voice of America		
	(20.8 miles) to current		Daminian (1000/)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		,
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
1.2620	GSU units #4 and #5. Install		Daminian (1000/)
b2630	two 230 kV CCVT's on		Dominion (100%)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
02017	standards with summer		Dominion (10070)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
1.2640	Dam 115 kV Line #90 (38.7		D :: (1000()
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
b2649	(17.8 miles) to current standards with summer		Dominion (100%)
	emergency rating of 353 MVA at 115 kV.		
	Rebuild Twittys Creek –		
	Pamplin 115 kV Line #154		
b2650	(17.8 miles) to current		
	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
	171 7 11 Wt 11 J IX 7 .		1

Virginia Electric and Power Company (cont.)

Required Trai		ii Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			<u>AEC (1.66%) / AEP</u>
			(14.16%) / APS (5.73%) /
			<u>ATSI (7.88%) / BGE</u>
			(4.22%) / ComEd (13.31%) /
			<u>Dayton (2.11%) / DEOK</u>
			(3.29%) / DL (1.75%) / DPL
	Rebuild the Cunningham –		(2.50%) / Dominion
b2665	Dooms 500 kV line		(12.86%) / EKPC (1.87%) /
			JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			PECO (5.34%) / PENELEC
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100 71.81%)/
			PEPCO (28.19%)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
	Upgrading sections of the Gordonsville – Somerset		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
	kV circuit		2 5333351 (10070)
1.0606.13	Upgrading sections of the		D :: (1000()
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		
b2686.2	Install a 3rd 230/115 kV transformer at Gordonsville		Dominion (100%)
02080.2	Substation		Dominion (10070)
L		<u> </u>	l .

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Trai		Annuai Revenue Requiremen	it responsible customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
b2744	Rebuild the Carson – Rogers		Dominion (12.86%) / EKPC
02/44	Rd 500 kV circuit		(1.87%) / JCPL (3.74%) / ME
			(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 21.32 miles of		
b2745	existing line between		Dominion (100%)
	Chesterfield – Lakeside 230 kV		
	Rebuild Line #137 Ridge Rd		
b2746.1	– Kerr Dam 115 kV, 8.0		Dominion (100%)
02/40.1	miles, for 346 MVA summer		Bollimon (10070)
	emergency rating Rebuild Line #1009 Ridge Rd		
	- Chase City 115 kV, 9.5		
b2746.2	miles, for 346 MVA summer		Dominion (100%)
	emergency rating		
	Install a second 4.8 MVAR		
b2746.3	capacitor bank on the 13.8 kV bus of each transformer at		Dominion (100%)
	Ridge Rd		
	Install a Motor Operated		
1.05.45	Switch and SCADA control		5 (1000)
b2747	between Dominion's Gordonsville 115 kV bus and		Dominion (100%)
	FirstEnergy's 115 kV line		
	I How mergy of 115 KV mile		

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual Re	evenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
b2758	Rebuild Line #549 Dooms – Valley 500kV		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (0.09%) / DL (0.03%) / Dominion (10099.88%)
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%)

Virginia Electric and Power Company (cont.)

Required I rai	nsmission Enhancements Annual Re	evenue Requirement	Responsible Customer(s)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end-of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)

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SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

cequirea 11	ansmission Ennancements Annual R	Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right-of- way Construct 230 kV OH line		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 11	ansmission enhancements Annual P	cevenue requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (33.33%) / Dominion (66.67%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

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Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA	-	Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		nual Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel	revenue requirement	Dominion (100%)
b2460.1	H-frames Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

required 11	ansmission Emancements Amuai	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI (7.88%)
			/ BGE (4.22%) / ComEd
	Replace Midlothian 500 kV		(13.31%) / Dayton (2.11%) /
	breaker 563T576 and motor		DEOK (3.29%) / DL (1.75%) /
	operated switches with 3		DPL (2.50%) / Dominion
b2471	breaker 500 kV ring bus.		(12.86%) / EKPC (1.87%) /
024/1	Terminate Lines # 563 Carson		JCPL (3.74%) / ME (1.90%) /
	– Midlothian, #576		` ' ' ` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
	Midlothian –North Anna,		NEPTUNE* (0.44%) / PECO
	Transformer #2 in new ring		(5.34%) / PENELEC (1.89%) /
			PEPCO (3.99%) / PPL (4.84%)
			/ PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 115 kV Line #32		
	from Halifax-South Boston (6		
b2504	miles) for min. of 240 MVA and transfer Welco tap to Line		
02304	#32. Moving Welco to Line		Dominion (100%)
	#32 requires disabling auto-		
	sectionalizing scheme		
	Install structures in river to		
b2505	remove the 115 kV #65 line		
62303	(Whitestone-Harmony Village 115 kV) from bridge and		Dominion (100%)
	improve reliability of the line		
	Replace the Loudoun 500 kV		
b2542	'H2T502' breaker with a		Dominion (100%)
	50kA breaker		Dominion (10070)
h2542	Replace the Loudoun 500 kV 'H2T584' breaker with a		
b2543	50kA breaker		Dominion (100%)
	Reconductor wave trap at		` , ,
b2565	Carver Substation with a		Daminia (1000/)
02303	2000A wave trap		Dominion (100%)
	Reconductor 1.14 miles of		
b2566	existing line between ACCA		D (1000/)
02200	and Hermitage and upgrade		Dominion (100%)
	associated terminal equipment		

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements And	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
b2582	Rebuild the Elmont – Cunningham 500 kV line		Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)
	Install 500 kV breaker at		DFAX Allocation: Dominion (100%)
b2583	Ox Substation to remove Ox Tx#1 from H1T561 breaker failure outage.		Dominion (100%)
b2584	Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and Cartersville distribution station to #2027 (Bremo- Midlothian 230 kV) line		Dominion (100%)
b2585	Reconductor 7.63 miles of existing line between Cranes and Stafford, upgrade associated line switches at Stafford		DFAX Allocation: PEPCO (100%)
b2620	Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; minimum rating 239 MVA normal/emergency, 275 MVA load dump rating		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2628	Rebuild 115 kV Line #82 Everetts – Voice of America (20.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2629	Rebuild the 115 kV Lines #27 and #67 lines from Greenwich 115 kV to Burton 115 kV Structure 27/280 to current standard with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2630	Install circuit switchers on Gravel Neck Power Station GSU units #4 and #5. Install two 230 kV CCVT's on Lines #2407 and #2408 for loss of source sensing		Dominion (100%)
b2636	Install three 230 kV bus breakers and 230 kV, 100 MVAR Variable Shunt Reactor at Dahlgren to provide line protection during maintenance, remove the operational hazard and provide voltage reduction during light load conditions		Dominion (100%)
b2647	Rebuild Boydton Plank Rd – Kerr Dam 115 kV Line #38 (8.3 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2648	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7 miles) to current standards with summer emergency rating of 353 MVA 115 kV.		Dominion (100%)
b2649	Rebuild Clubhouse – Carolina 115 kV Line #130 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Virginia Electric and Power Company (cont.)

tequired Tit	distribusion Emilarcements Amilia	ii ite vende itequirement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai		ii Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required I ran	smission Enhancements Annua	l Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP
			(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			Dayton (2.11%) / DEOK
			(3.29%) / DL (1.75%) / DPL
	Dahuild the Cunninghem		(2.50%) / Dominion
b2665	Rebuild the Cunningham – Dooms 500 kV line		(12.86%) / EKPC (1.87%) /
	Booms 200 R v IIII		JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			<u>PECO (5.34%) / PENELEC</u>
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (10071.81%)/
			<u>PEPCO (28.19%)</u>
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to		Dominion (100%)
	Gordonsville Substation utilizing existing ROW		
	Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit		
b2686.12	Upgrading sections of the Somerset – Doubleday 115		Dominion (100%)
02000.12	kV circuit		Dominion (10070)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	circuit Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		(- 0 0 : 0)
1.0000.2	Install a 3rd 230/115 kV		D : : (1000()
b2686.2	transformer at Gordonsville Substation		Dominion (100%)
	Substation		

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Train	ismission Enhancements	Annual Revenue Requiremen	it Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Virginia Electric and Power Company (cont.)

Bebuild the Carson – Rogers Rd 500 kV circuit Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV	Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
Bebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (3.99%) / PPL (4.84%) / PSEG (6.26%) / PECO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) PSEG (6.26%) / RE (0.26%) Dominion (100%) Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%) Dominion				Load-Ratio Share
Bebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild (1.87%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				Allocation:
Bebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild (1.87%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				AEC (1.66%) / AEP (14.16%)
Bebuild the Carson – Rogers Rd 500 kV circuit Comed (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
Bebuild the Carson – Rogers Rebuild the Carson – Rogers Rebuild the Carson – Rogers Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) PFAX Allocation: Dominion (100%)				` /
Rebuild the Carson – Rogers Rd 500 kV circuit				` ' '
Rebuild the Carson – Rogers Rebuild the Carson – Rogers Rebuild the Carson – Rogers DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
Dominion (12.86%) / EKPC				
Rd 500 kV circuit (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)	1.07.44	Rebuild the Carson – Rogers		
(1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: Dominion (100%) Bebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV	62744	Rd 500 kV circuit		
(0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
(3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
b2745 Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer PSEG (6.26%) / RE (0.26%) Dominion (100%) Dominion (100%) Dominion (100%)				` ,
b2745 Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer DFAX Allocation: Dominion (100%) Dominion (100%)				
b2745 Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%) Dominion (100%)				PSEG (0.20%) / RE (0.20%)
b2745 Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%) Dominion (100%)				DFAX Allocation:
b2745 existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%) Dominion (100%)				
Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd - Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%)				
Chesterheid – Lakeside 230 kV Rebuild Line #137 Ridge Rd - Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%)	b2745	existing line between		Dominion (100%)
Bebuild Line #137 Ridge Rd - Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%)	02713			Bommon (10070)
b2746.1				
b2/46.1 miles, for 346 MVA summer Dominion (100%)	105461	- Kerr Dam 115 kV, 8.0		5 (1000()
emergency rating	b2746.1	miles, for 346 MVA summer		Dominion (100%)
		emergency rating Rebuild Line #1009 Ridge Rd		
Rebuild Line #1009 Ridge Rd		Rebuild Line #1009 Ridge Rd		
b2746.2	b2746.2	- Chase City 115 kV, 9.5		Dominion (100%)
emergency rating				,
Install a second 4.8 MVAR		Install a second 4.8 MVAR		
b2746.3 capacitor bank on the 13.8 kV Dominion (100%)	h2746 2	capacitor bank on the 13.8 kV		Daminian (1009/)
bus of each transformer at	62/46.3			Dominion (100%)
Ridge Rd				
Install a Motor Operated Switch and SCADA control				
b2747 between Dominion's Dominion (100%)	b2747			Dominion (100%)
Gordonsville 115 kV bus and	02/4/			Dominion (10070)
FirstEnergy's 115 kV line				

Virginia Electric and Power Company (cont.)

Required Irai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
b2758	Rebuild Line #549 Dooms – Valley 500kV		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (0.09%) / DL (0.03%) / Dominion (10099.88%)
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (87.50%) / ATSI (0.37%) / DL (0.19%) / Dominion (1001.04%) / EKPC (10.90%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker	_	Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

Virginia Electric and Power Company (cont.)

Re	equired Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
	b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)
	b2928	Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace the river crossing conductor with 3-1534 ACSR. This will increase the line #567 line rating from 1954 MVA to 2600 MVA		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%)
	b2929	Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards with a standard conductor (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

required 118	ansmission Ennancements Annual	Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 118	ansmission Enhancements Annual F	Revenue Requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (33.33%) / Dominion (66.67%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA	-	Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		nual Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel	revenue requirement	Dominion (100%)
b2460.1	H-frames Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

required 11	ansmission Emancements Amuai	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI (7.88%)
			/ BGE (4.22%) / ComEd
	Replace Midlothian 500 kV		(13.31%) / Dayton (2.11%) /
	breaker 563T576 and motor		DEOK (3.29%) / DL (1.75%) /
	operated switches with 3		DPL (2.50%) / Dominion
b2471	breaker 500 kV ring bus.		(12.86%) / EKPC (1.87%) /
024/1	Terminate Lines # 563 Carson		JCPL (3.74%) / ME (1.90%) /
	– Midlothian, #576		` ' ' ` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
	Midlothian –North Anna,		NEPTUNE* (0.44%) / PECO
	Transformer #2 in new ring		(5.34%) / PENELEC (1.89%) /
			PEPCO (3.99%) / PPL (4.84%)
			/ PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 115 kV Line #32		
	from Halifax-South Boston (6		
b2504	miles) for min. of 240 MVA and transfer Welco tap to Line		
02304	#32. Moving Welco to Line		Dominion (100%)
	#32 requires disabling auto-		
	sectionalizing scheme		
	Install structures in river to		
b2505	remove the 115 kV #65 line		
62303	(Whitestone-Harmony Village 115 kV) from bridge and		Dominion (100%)
	improve reliability of the line		
	Replace the Loudoun 500 kV		
b2542	'H2T502' breaker with a		Dominion (100%)
	50kA breaker		Dominion (10070)
h2542	Replace the Loudoun 500 kV 'H2T584' breaker with a		
b2543	50kA breaker		Dominion (100%)
	Reconductor wave trap at		` , ,
b2565	Carver Substation with a		Daminia (1000/)
	2000A wave trap		Dominion (100%)
	Reconductor 1.14 miles of		
b2566	existing line between ACCA		D (1000/)
02200	and Hermitage and upgrade		Dominion (100%)
	associated terminal equipment		

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			<u>AEC (1.66%) / AEP</u>
			(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			<u>Dayton (2.11%) / DEOK</u>
			(3.29%) / DL (1.75%) / DPL
b2582	Rebuild the Elmont –		(2.50%) / Dominion
02362	Cunningham 500 kV line		(12.86%) / EKPC (1.87%) /
			JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			<u>PECO (5.34%) / PENELEC</u>
			(1.89%) / PEPCO (3.99%) /
			<u>PPL (4.84%) / PSEG</u>
			(6.26%) / RE (0.26%)
			DFAX Allocation:
	11.500.137.1		Dominion (100%)
	Install 500 kV breaker at Ox Substation to remove		
b2583	Ox Tx#1 from H1T561		Dominion (100%)
	breaker failure outage.		
	Relocate the Bremo load		
	(transformer #5) to #2028 (Bremo-Charlottesville		
b2584	230 kV) line and		Dominion (100%)
	Cartersville distribution		2 (100,0)
	station to #2027 (Bremo-		
	Midlothian 230 kV) line Reconductor 7.63 miles of		
	existing line between		DEAV AU 4
b2585	Cranes and Stafford,		DFAX Allocation:
	upgrade associated line		PEPCO (100%)
	switches at Stafford Wreck and rebuild the		
	Chesapeake – Deep Creek		
b2620	- Bowers Hill - Hodges		
	Ferry 115 kV line;		Dominion (100%)
	minimum rating 239		Dominion (10070)
	MVA normal/emergency, 275 MVA load dump		
	rating		
			•

Virginia Electric and Power Company (cont.)

Required 1ra		ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82	_	
	Everetts – Voice of America		
1.2620	(20.8 miles) to current		D :: (1000/)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
02027	current standard with a		Dominion (10070)
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
	GSU units #4 and #5. Install		
b2630			Dominion (100%)
	two 230 kV CCVT's on Lines #2407 and #2408 for		,
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
1.2626	Reactor at Dahlgren to		D :: (1000/)
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
02017	standards with summer		Bommon (10070)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
1.0640	Dam 115 kV Line #90 (38.7		5
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
b2649	(17.8 miles) to current		Dominion (100%)
	standards with summer		Dominion (10070)
	emergency rating of 353		
	MVA at 115 kV.		

Virginia Electric and Power Company (cont.)

required 11		ii Revenue Requirement	responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Irai		al Revenue Requirement	Responsible Customer(s)
	Rebuild Buggs Island –		
	Plywood 115 kV Line #127		
	(25.8 miles) to current		
b2651	standards with summer		Daminian (1000/)
02031	emergency rating of 353		Dominion (100%)
	MVA at 115 kV. The line		
	should be rebuilt for 230		
	kV and operated at 115 kV.		
	Rebuild Greatbridge –		
	Hickory 115 kV Line #16		
	and Greatbridge –		
b2652	Chesapeake E.C. to current		Dominion (100%)
	standard with summer		, ,
	emergency rating of 353		
	MVA at 115 kV.		
	Build 20 mile 115 kV line		
	from Pantego to		
b2653.1	Trowbridge with summer		Dominion (100%)
	emergency rating of 353		,
	MVA.		
106500	Install 115 kV four-breaker		D :: (1000()
b2653.2	ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at		Dominion (100%)
02033.3	Trowbridge		Deminion (10070)
	Build 15 mile 115 kV line		
	from Scotland Neck to S		
	Justice Branch with		
	summer emergency rating		
b2654.1	of 353 MVA. New line will		Dominion (100%)
	be routed to allow HEMC		, ,
	to convert Dawson's		
	Crossroads RP from 34.5		
	kV to 115 kV.		
1.06540	Install 115 kV three-breaker		D
b2654.2	ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)
	Scottand Neck		` '

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			<u>AEC (1.66%) / AEP</u>
			(14.16%) / APS (5.73%) /
			<u>ATSI (7.88%) / BGE</u>
			(4.22%) / ComEd (13.31%) /
			<u>Dayton (2.11%) / DEOK</u>
			(3.29%) / DL (1.75%) / DPL
	Rebuild the Cunningham –		(2.50%) / Dominion
b2665	Dooms 500 kV line		(12.86%) / EKPC (1.87%) /
			JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			PECO (5.34%) / PENELEC
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100 71.81%)/
			PEPCO (28.19%)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
	Upgrading sections of the Gordonsville – Somerset		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
	kV circuit		2 5333351 (10070)
1.0606.13	Upgrading sections of the		D :: (1000()
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		
b2686.2	Install a 3rd 230/115 kV transformer at Gordonsville		Dominion (100%)
02080.2	Substation		Dominion (10070)
L		<u> </u>	l .

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Trai		Annuai Revenue Requiremen	it responsible customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Virginia Electric and Power Company (cont.)

Bebuild the Carson – Rogers Rd 500 kV circuit Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV	Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
Bebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (3.99%) / PPL (4.84%) / PSEG (6.26%) / PECO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) PSEG (6.26%) / RE (0.26%) Dominion (100%) Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%) Dominion				Load-Ratio Share
Bebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild (1.87%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				Allocation:
Bebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild (1.87%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				AEC (1.66%) / AEP (14.16%)
Bebuild the Carson – Rogers Rd 500 kV circuit Comed (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
Bebuild the Carson – Rogers Rebuild the Carson – Rogers Rebuild the Carson – Rogers Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) PFAX Allocation: Dominion (100%)				` /
Rebuild the Carson – Rogers Rd 500 kV circuit				` ' '
Rebuild the Carson – Rogers Rebuild the Carson – Rogers Rebuild the Carson – Rogers DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
Dominion (12.86%) / EKPC				
Rd 500 kV circuit (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)	1.07.44	Rebuild the Carson – Rogers		
(1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: Dominion (100%) Bebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV	62744	Rd 500 kV circuit		
(0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
(3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
b2745 Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer PSEG (6.26%) / RE (0.26%) Dominion (100%) Dominion (100%) Dominion (100%)				` ,
b2745 Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer DFAX Allocation: Dominion (100%) Dominion (100%)				
b2745 Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%) Dominion (100%)				PSEG (6.26%) / RE (0.26%)
b2745 Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%) Dominion (100%)				DFAX Allocation:
b2745 existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%) Dominion (100%)				
Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd - Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%)				
Chesterheid – Lakeside 230 kV Rebuild Line #137 Ridge Rd - Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%)	b2745	existing line between		Dominion (100%)
Bebuild Line #137 Ridge Rd - Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%)	02713			Bommon (10070)
b2746.1				
b2/46.1 miles, for 346 MVA summer Dominion (100%)	105461	- Kerr Dam 115 kV, 8.0		5 (1000()
emergency rating	b2746.1	miles, for 346 MVA summer		Dominion (100%)
		emergency rating Rebuild Line #1009 Ridge Rd		
Rebuild Line #1009 Ridge Rd		Rebuild Line #1009 Ridge Rd		
b2746.2	b2746.2	- Chase City 115 kV, 9.5		Dominion (100%)
emergency rating				,
Install a second 4.8 MVAR		Install a second 4.8 MVAR		
capacitor bank on the 13.8 kV	b2746.3	capacitor bank on the 13.8 kV		Daminian (1009/)
bus of each transformer at		bus of each transformer at		Dominion (100%)
Ridge Rd				
Install a Motor Operated Switch and SCADA control				
b2747 between Dominion's Dominion (100%)	b2747			Dominion (100%)
Gordonsville 115 kV bus and	02/4/			Dominion (10070)
FirstEnergy's 115 kV line				

Virginia Electric and Power Company (cont.)

Required Irai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
b2758	Rebuild Line #549 Dooms – Valley 500kV		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (0.09%) / DL (0.03%) / Dominion (10099.88%)
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (87.50%) / ATSI (0.37%) / DL (0.19%) / Dominion (1001.04%) / EKPC (10.90%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker	_	Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
Ь2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2928	Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace the river crossing conductor with 3-1534 ACSR. This will increase the line #567 line rating from 1954 MVA to 2600 MVA		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: Dominion (100%)
b2929	Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards with a standard conductor (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2960	Replace fixed series capacitors on 500 kV Line #547 at Lexington and on 500 kV Line #548 at Valley		Dominion (100%)See sub-IDs for cost allocations

Virginia Electric and Power Company (cont.)

Required Trai	ismission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
1.0000.1	Replace fixed series		Dominion (12.86%) / EKPC
<u>b2960.1</u>	capacitors on 500 kV Line #547 at Lexington		(1.87%) / JCPL (3.74%) / ME
	#347 at Lexington		(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			DEOK (6.04%) / Dominion
			(91.37%) / EKPC (2.59%)
			Load-Ratio Share
	Replace fixed series capacitors on 500 kV Line #548 at Valley		Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
1-2060.2			Dominion (12.86%) / EKPC
<u>b2960.2</u>			(1.87%) / JCPL (3.74%) / ME
	m540 at valley		(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			DEOK (29.79%) / Dominion
			(60.32%) / EKPC (9.89%)

Virginia Electric and Power Company (cont.)

Ttoquirea 11a	and the state of t	respensione e disterner (b)
b2961	Rebuild approximately 3 miles of Line #205 & Line #2003 from Chesterfield to Locks & Poe respectively	Dominion (100%)
b2962	Split Line #227 (Brambleton – Beaumeade 230 kV) and terminate into existing Belmont substation	Dominion (100%)
b2963	Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and replace line terminal equipment at Possum Point, Woodbridge, and Occoquan	Dominion (100%)

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SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Ira		Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 11	ansmission Enhancements Annual		Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker	7	Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / Dominion (12.86%) / DPL (2.50%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (33.33%) / Dominion (66.67%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA	7	Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA	7	Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA	7	Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

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Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Ana	nual Revenue Requirement	Responsible Customer(s)
	Replace the Beaumeade	-	
b2404	230 kV breaker		D :: (1000/)
	'227T2095' with 63kA		Dominion (100%)
	Replace the Pleasant view		
b2405	230 kV breaker '203T274'		D (1000/)
	with 63kA		Dominion (100%)
	Construct new		
	underground 230 kV line		
	from Glebe to Station C,		
10440	rebuild Glebe Substation,		D : : (07.110/) /3.6F
b2443	construct 230 kV high		Dominion (97.11%) / ME
	side bus at Station C with		(0.18%) / PEPCO (2.71%)
	option to install 800 MVA		
	PAR		
	Replace the Idylwood 230		
b2443.1	kV breaker '203512' with		
02113.1	50kA		Dominion (100%)
	Replace the Ox 230 kV		
b2443.2	breaker '206342' with		
02113.2	63kA breaker		Dominion (100%)
	00111 1 010 111101		
			DFAX Allocation:
b2443.3	Glebe – Station C PAR		
			Dominion (22.57%) /
			PEPCO (77.43%)
	Replace 24 115 kV wood		
	h-frames with 230 kV		
b2457	Dominion pole H-frame		
02437	structures on the		Dominion (100%)
	Clubhouse – Purdy 115		
	kV line		
	Replace 12 wood H-frame		
	structures with steel H-		
	frame structures and		
b2458.1	install shunts on all		Dominion (100%)
	conductor splices on		Dominion (10070)
	Carolina – Woodland 115		
	kV		
	Upgrade all line switches		
	and substation		
b2458.2	components at Carolina		D
02 13 0.2	115 kV to meet or exceed		Dominion (100%)
	new conductor rating of		
	174 MVA		
104503	Replace 14 wood H-frame		
b2458.3	structures on Carolina –		Dominion (100%)
	Woodland 115 kV		20111111011 (10070)
10450 4	Replace 2.5 miles of static		
b2458.4	wire on Carolina –		Dominion (100%)
	Woodland 115 kV		Dominion (10070)

Virginia Electric and Power Company (cont.)

Required Tra		nual Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel	revenue requirement	Dominion (100%)
b2460.1	H-frames Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required 11	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI (7.88%)
			/ BGE (4.22%) / ComEd
	D 1 M:11 (1: 500 1 X)		(13.31%) / Dayton (2.11%) /
	Replace Midlothian 500 kV breaker 563T576 and motor		DEOK (3.29%) / DL (1.75%) /
	operated switches with 3		DPL (2.50%) / Dominion
1 2 4 7 1	breaker 500 kV ring bus.		(12.86%) / EKPC (1.87%) /
b2471	Terminate Lines # 563 Carson		JCPL (3.74%) / ME (1.90%) /
	– Midlothian, #576		NEPTUNE* (0.44%) / PECO
	Midlothian –North Anna, Transformer #2 in new ring		(5.34%) / PENELEC (1.89%) /
	Transformer #2 in new ring		PEPCO (3.99%) / PPL (4.84%)
			/ PSEG (6.26%) / RE (0.26%)
			7 1 5EG (0.2070) 7 RE (0.2070)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 115 kV Line #32		, , ,
	from Halifax-South Boston (6		
b2504	miles) for min. of 240 MVA		
02304	and transfer Welco tap to Line #32. Moving Welco to Line		Dominion (100%)
	#32 requires disabling auto-		
	sectionalizing scheme		
	Install structures in river to		
b2505	remove the 115 kV #65 line		
02303	(Whitestone-Harmony Village 115 kV) from bridge and		Dominion (100%)
	improve reliability of the line		
	Replace the Loudoun 500 kV		
b2542	'H2T502' breaker with a		Dominion (100%)
	50kA breaker		Dominion (10070)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a		
02343	50kA breaker		Dominion (100%)
	Reconductor wave trap at		
b2565	Carver Substation with a		Dominion (100%)
	2000A wave trap		Dominion (10070)
	Reconductor 1.14 miles of		
b2566	existing line between ACCA and Hermitage and upgrade		Dominion (100%)
	associated terminal equipment		
L			

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			<u>AEC (1.66%) / AEP</u>
			(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			<u>Dayton (2.11%) / DEOK</u>
			(3.29%) / DL (1.75%) / DPL
b2582	Rebuild the Elmont –		(2.50%) / Dominion
02362	Cunningham 500 kV line		(12.86%) / EKPC (1.87%) /
			JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			<u>PECO (5.34%) / PENELEC</u>
			(1.89%) / PEPCO (3.99%) /
			<u>PPL (4.84%) / PSEG</u>
			(6.26%) / RE (0.26%)
			DFAX Allocation:
	11.500.137.1		Dominion (100%)
	Install 500 kV breaker at Ox Substation to remove		
b2583	Ox Tx#1 from H1T561		Dominion (100%)
	breaker failure outage.		
	Relocate the Bremo load		
	(transformer #5) to #2028 (Bremo-Charlottesville		
b2584	230 kV) line and		Dominion (100%)
	Cartersville distribution		2 (100,0)
	station to #2027 (Bremo-		
	Midlothian 230 kV) line Reconductor 7.63 miles of		
	existing line between		DEAV AU 4
b2585	Cranes and Stafford,		DFAX Allocation:
	upgrade associated line		PEPCO (100%)
	switches at Stafford Wreck and rebuild the		
	Chesapeake – Deep Creek		
	- Bowers Hill - Hodges		
b2620	Ferry 115 kV line;		Dominion (100%)
02020	minimum rating 239		Dominion (10070)
	MVA normal/emergency, 275 MVA load dump		
	rating		
			•

Virginia Electric and Power Company (cont.)

Required 11a		ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82	_	
	Everetts – Voice of America		
1.2620	(20.8 miles) to current		D :: (1000/)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
02027	current standard with a		Dominion (10070)
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
	GSU units #4 and #5. Install		
b2630			Dominion (100%)
	two 230 kV CCVT's on Lines #2407 and #2408 for		,
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
1.2626	Reactor at Dahlgren to		D :: (1000/)
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
02047	standards with summer		Bommon (10070)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
1.0640	Dam 115 kV Line #90 (38.7		5
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
b2649	(17.8 miles) to current		Dominion (100%)
	standards with summer		Dominion (10070)
	emergency rating of 353		
	MVA at 115 kV.		

Virginia Electric and Power Company (cont.)

Required 11		il Revenue Requirement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Irai		al Revenue Requirement	Responsible Customer(s)
	Rebuild Buggs Island –		
	Plywood 115 kV Line #127		
	(25.8 miles) to current		
b2651	standards with summer		Daminian (1000/)
02031	emergency rating of 353		Dominion (100%)
	MVA at 115 kV. The line		
	should be rebuilt for 230		
	kV and operated at 115 kV.		
	Rebuild Greatbridge –		
	Hickory 115 kV Line #16		
	and Greatbridge –		
b2652	Chesapeake E.C. to current		Dominion (100%)
	standard with summer		, ,
	emergency rating of 353		
	MVA at 115 kV.		
	Build 20 mile 115 kV line		
	from Pantego to		
b2653.1	Trowbridge with summer		Dominion (100%)
	emergency rating of 353		,
	MVA.		
106500	Install 115 kV four-breaker		D :: (1000()
b2653.2	ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at		Dominion (100%)
02055.5	Trowbridge		Deminion (10070)
	Build 15 mile 115 kV line		
	from Scotland Neck to S		
	Justice Branch with		
	summer emergency rating		
b2654.1	of 353 MVA. New line will		Dominion (100%)
	be routed to allow HEMC		, ,
	to convert Dawson's		
	Crossroads RP from 34.5		
	kV to 115 kV.		
1.06540	Install 115 kV three-breaker		D
b2654.2	ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)
	Scottand Neck		` '

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			<u>AEC (1.66%) / AEP</u>
			(14.16%) / APS (5.73%) /
			<u>ATSI (7.88%) / BGE</u>
			(4.22%) / ComEd (13.31%) /
			<u>Dayton (2.11%) / DEOK</u>
			(3.29%) / DL (1.75%) / DPL
	Rebuild the Cunningham –		(2.50%) / Dominion
b2665	Dooms 500 kV line		(12.86%) / EKPC (1.87%) /
			JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			PECO (5.34%) / PENELEC
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100 71.81%)/
			PEPCO (28.19%)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
	Upgrading sections of the Gordonsville – Somerset		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
	kV circuit		2 5333351 (10070)
1.0606.13	Upgrading sections of the		D :: (1000()
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		
b2686.2	Install a 3rd 230/115 kV transformer at Gordonsville		Dominion (100%)
02000.2	Substation		Dominion (10070)
L		<u> </u>	l .

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Trai		Annuai Revenue Requiremen	it responsible customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Virginia Electric and Power Company (cont.)

Bebuild the Carson – Rogers Rd 500 kV circuit Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV	Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
Bebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (3.99%) / PPL (4.84%) / PSEG (6.26%) / PECO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) PSEG (6.26%) / RE (0.26%) Dominion (100%) Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%) Dominion				Load-Ratio Share
Bebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild (1.87%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				Allocation:
Bebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild (1.87%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				AEC (1.66%) / AEP (14.16%)
Bebuild the Carson – Rogers Rd 500 kV circuit Comed (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
Bebuild the Carson – Rogers Rebuild the Carson – Rogers Rebuild the Carson – Rogers Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) PFAX Allocation: Dominion (100%)				` /
Rebuild the Carson – Rogers Rd 500 kV circuit				` ' '
Rebuild the Carson – Rogers Rebuild the Carson – Rogers Rebuild the Carson – Rogers DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
Dominion (12.86%) / EKPC				
Rd 500 kV circuit (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)	1.07.44	Rebuild the Carson – Rogers		
(1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: Dominion (100%) Bebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV	62744	Rd 500 kV circuit		
(0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
(3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				
b2745 Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer PSEG (6.26%) / RE (0.26%) Dominion (100%) Dominion (100%) Dominion (100%)				` ,
b2745 Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer DFAX Allocation: Dominion (100%) Dominion (100%)				
b2745 Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%) Dominion (100%)				PSEG (0.20%) / RE (0.20%)
b2745 Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%) Dominion (100%)				DFAX Allocation:
b2745 existing line between Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%) Dominion (100%)				
Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd - Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%)				
Chesterheid – Lakeside 230 kV Rebuild Line #137 Ridge Rd - Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%)	b2745	existing line between		Dominion (100%)
Bebuild Line #137 Ridge Rd - Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer Dominion (100%)	02713			Bommon (10070)
b2746.1				
b2/46.1 miles, for 346 MVA summer Dominion (100%)	105461	- Kerr Dam 115 kV, 8.0		5 (1000()
emergency rating	b2746.1	miles, for 346 MVA summer		Dominion (100%)
		emergency rating Rebuild Line #1009 Ridge Rd		
Rebuild Line #1009 Ridge Rd		Rebuild Line #1009 Ridge Rd		
b2746.2	b2746.2	- Chase City 115 kV, 9.5		Dominion (100%)
emergency rating	,			,
Install a second 4.8 MVAR		Install a second 4.8 MVAR		
b2746.3 capacitor bank on the 13.8 kV Dominion (100%)	h2746 2	capacitor bank on the 13.8 kV		Daminian (1009/)
bus of each transformer at	02/40.3			Dominion (100%)
Ridge Rd				
Install a Motor Operated Switch and SCADA control				
b2747 between Dominion's Dominion (100%)	b2747			Dominion (100%)
Gordonsville 115 kV bus and	02/4/			Dominion (10070)
FirstEnergy's 115 kV line				

Virginia Electric and Power Company (cont.)

Required Irai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
b2758	Rebuild Line #549 Dooms – Valley 500kV		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (0.09%) / DL (0.03%) / Dominion (10099.88%)
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (87.50%) / ATSI (0.37%) / DL (0.19%) / Dominion (1001.04%) / EKPC (10.90%)

Virginia Electric and Power Company (cont.)

Required Tra		Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
Ь2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2928	Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace the river crossing conductor with 3-1534 ACSR. This will increase the line #567 line rating from 1954 MVA to 2600 MVA		Dominion (100%)
b2929	Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards with a standard conductor (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2960	Replace fixed series capacitors on 500 kV Line #547 at Lexington and on 500 kV Line #548 at Valley		See sub-IDs for cost allocations Dominion (100%)
<u>b2960.1</u>	Replace fixed series capacitors on 500 kV Line #547 at Lexington		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: DEOK (6.04%) / Dominion (91.37%) / EKPC (2.59%)

Virginia Electric and Power Company (cont.)

Required Tran	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
<u>b2960.2</u>	Replace fixed series capacitors on 500 kV Line #548 at Valley		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: DEOK (29.79%) / Dominion (60.32%) / EKPC (9.89%)
b2961	Rebuild approximately 3 miles of Line #205 & Line #2003 from Chesterfield to Locks & Poe respectively		Dominion (100%)
b2962	Split Line #227 (Brambleton – Beaumeade 230 kV) and terminate into existing Belmont substation		Dominion (100%)
b2963	Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and replace line terminal equipment at Possum Point, Woodbridge, and Occoquan		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required 11a	nsmission Ennancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP
			(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			Dayton (2.11%) / DEOK
	Install 2-125 MVAR		(3.29%) / DL (1.75%) /
	STATCOMs at Rawlings and		Dominion (12.86%) / DPL
b2978	1-125 MVAR STATCOM at		(2.50%) / EKPC (1.87%) /
	Clover 500 kV substations		JCPL (3.74%) / ME (1.90%)
	Clovel 500 k v substations		, , , ,
			/ NEPTUNE* (0.44%) /
			PECO (5.34%) / PENELEC
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 115 kV Line #43		
	between Staunton and		
1,2000	Harrisonburg (22.8 miles) to		Dominion (100%)
b2980	current standards with a		
	summer emergency rating of		
	261 MVA at 115 kV		
	Rebuild 115 kV Line #29		
	segment between		
	Fredericksburg and Aquia		
b2981	Harbor to current 230 kV		
	standards (operating at 115		
	kV) utilizing steel H-frame		Dominion (100%)
	structures with 2-636 ACSR		20111111011 (10070)
	to provide a normal		
	continuous summer rating of		
	524 MVA at 115 kV (1047		
	MVA at 230 kV)		
	MIVA at 230 KV)		

^{*}Neptune Regional Transmission System, LLC

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

required 118	ansmission Ennancements Annual	Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 11	ansmission Enhancements Annual		Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker	7	Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / Dominion (12.86%) / DPL (2.50%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (33.33%) / Dominion (66.67%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA	7	Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA	7	Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA	7	Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA	-	Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		nual Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel	revenue requirement	Dominion (100%)
b2460.1	H-frames Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

required In	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI (7.88%)
			/ BGE (4.22%) / ComEd
	Replace Midlothian 500 kV		(13.31%) / Dayton (2.11%) /
	breaker 563T576 and motor		DEOK (3.29%) / DL (1.75%) /
	operated switches with 3		DPL (2.50%) / Dominion
b2471	breaker 500 kV ring bus.		(12.86%) / EKPC (1.87%) /
	Terminate Lines # 563 Carson – Midlothian, #576		JCPL (3.74%) / ME (1.90%) /
	Midlothian –North Anna,		NEPTUNE* (0.44%) / PECO
	Transformer #2 in new ring		(5.34%) / PENELEC (1.89%) /
			PEPCO (3.99%) / PPL (4.84%)
			/ PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 115 kV Line #32		(100/0)
	from Halifax-South Boston (6		
1050	miles) for min. of 240 MVA		
b2504	and transfer Welco tap to Line		Dominion (100%)
	#32. Moving Welco to Line #32 requires disabling auto-		
	sectionalizing scheme		
	Install structures in river to		
	remove the 115 kV #65 line		
b2505	(Whitestone-Harmony Village		Dominion (100%)
	115 kV) from bridge and improve reliability of the line		(
	Replace the Loudoun 500 kV		
b2542	'H2T502' breaker with a		Deminio (1000)
	50kA breaker		Dominion (100%)
10-:-	Replace the Loudoun 500 kV		
b2543	H2T584' breaker with a		Dominion (100%)
	50kA breaker Reconductor wave trap at		(2007.5)
b2565	Carver Substation with a		
02303	2000A wave trap		Dominion (100%)
	Reconductor 1.14 miles of		
b2566	existing line between ACCA		
02300	and Hermitage and upgrade		Dominion (100%)
	associated terminal equipment		

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			<u>AEC (1.66%) / AEP</u>
			(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			<u>Dayton (2.11%) / DEOK</u>
			(3.29%) / DL (1.75%) / DPL
b2582	Rebuild the Elmont –		(2.50%) / Dominion
02362	Cunningham 500 kV line		(12.86%) / EKPC (1.87%) /
			JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			<u>PECO (5.34%) / PENELEC</u>
			(1.89%) / PEPCO (3.99%) /
			<u>PPL (4.84%) / PSEG</u>
			(6.26%) / RE (0.26%)
			DFAX Allocation:
	11.500.137.1		Dominion (100%)
	Install 500 kV breaker at Ox Substation to remove		
b2583	Ox Tx#1 from H1T561		Dominion (100%)
	breaker failure outage.		
	Relocate the Bremo load		
	(transformer #5) to #2028 (Bremo-Charlottesville		
b2584	230 kV) line and		Dominion (100%)
	Cartersville distribution		2 (100,0)
	station to #2027 (Bremo-		
	Midlothian 230 kV) line Reconductor 7.63 miles of		
	existing line between		DEAV AU 4
b2585	Cranes and Stafford,		DFAX Allocation:
	upgrade associated line		PEPCO (100%)
	switches at Stafford Wreck and rebuild the		
	Chesapeake – Deep Creek		
b2620	- Bowers Hill - Hodges		
	Ferry 115 kV line;		Dominion (100%)
	minimum rating 239		Dominion (10070)
	MVA normal/emergency, 275 MVA load dump		
	rating		
			•

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with		Dominion (100%)
b2623	summer emergency rating of 353 MVA at 115 kV Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261		Dominion (100%)
b2624	MVA at 115 kV Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required 11		al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82		
1,2729	Everetts – Voice of America		
	(20.8 miles) to current		Dominion (1009/)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
1.2620	GSU units #4 and #5. Install		D :: (1000/)
b2630	two 230 kV CCVT's on		Dominion (100%)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Daminian (100%)
02047	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
	Dam 115 kV Line #90 (38.7		
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
b2649	(17.8 miles) to current		Dominion (100%)
	standards with summer		Dominion (10070)
	emergency rating of 353		
	MVA at 115 kV.		

Virginia Electric and Power Company (cont.)

Required 11		ii Revenue Requirement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required I rai	nsmission Enhancements – Annua	al Revenue Requirement	Responsible Customer(s)
	Rebuild Buggs Island – Plywood 115 kV Line #127		
b2651	(25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			<u>AEC (1.66%) / AEP</u>
			(14.16%) / APS (5.73%) /
			<u>ATSI (7.88%) / BGE</u>
			(4.22%) / ComEd (13.31%) /
			<u>Dayton (2.11%) / DEOK</u>
			(3.29%) / DL (1.75%) / DPL
	Rebuild the Cunningham –		(2.50%) / Dominion
b2665	Dooms 500 kV line		(12.86%) / EKPC (1.87%) /
			JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			PECO (5.34%) / PENELEC
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100 71.81%)/
			PEPCO (28.19%)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
	Upgrading sections of the Gordonsville – Somerset		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
	kV circuit		2 5333351 (10070)
1.0606.13	Upgrading sections of the		D :: (1000()
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		
b2686.2	Install a 3rd 230/115 kV transformer at Gordonsville		Dominion (100%)
02080.2	Substation		Dominion (10070)
L		<u> </u>	l .

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements	Annual Revenue Requiremen	it Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
	D-1		DL (1.75%) / DPL (2.50%) /
b2744	Rebuild the Carson – Rogers Rd 500 kV circuit		Dominion (12.86%) / EKPC
	Ru 300 k v cheuit		(1.87%) / JCPL (3.74%) / ME
			(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 21.32 miles of		
b2745	existing line between Chesterfield – Lakeside		Dominion (100%)
	230 kV		
	Rebuild Line #137 Ridge Rd		
b2746.1	– Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer		Dominion (100%)
02710.1			
	emergency rating Rebuild Line #1009 Ridge Rd		
1.0746.0	- Chase City 115 kV, 9.5		D :: (1000/)
b2746.2	miles, for 346 MVA summer		Dominion (100%)
	emergency rating		
b2746.3	Install a second 4.8 MVAR capacitor bank on the 13.8 kV		
	bus of each transformer at		Dominion (100%)
	Ridge Rd		
	Install a Motor Operated		
1 27 47	Switch and SCADA control		D :: (1000/)
b2747	between Dominion's Gordonsville 115 kV bus and		Dominion (100%)
	FirstEnergy's 115 kV line		
	63 :		

Virginia Electric and Power Company (cont.)

Required Irai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
b2758	Rebuild Line #549 Dooms – Valley 500kV		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (0.09%) / DL (0.03%) / Dominion (10099.88%)
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (87.50%) / ATSI (0.37%) / DL (0.19%) / Dominion (1001.04%) / EKPC (10.90%)

Virginia Electric and Power Company (cont.)

Required Tra		Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
Ь2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tran	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2928	Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace the river crossing conductor with 3-1534 ACSR. This will increase the line #567 line rating from 1954 MVA to 2600 MVA		Dominion (100%)
b2929	Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards with a standard conductor (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2960	Replace fixed series capacitors on 500 kV Line #547 at Lexington and on 500 kV Line #548 at Valley		Dominion (100%)See sub-IDs for cost allocations
<u>b2960.1</u>	Replace fixed series capacitors on 500 kV Line #547 at Lexington		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: DEOK (6.04%) / Dominion (91.37%) / EKPC (2.59%)

Virginia Electric and Power Company (cont.)

Required I rai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
<u>b2960.2</u>	Replace fixed series capacitors on 500 kV Line #548 at Valley		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: DEOK (29.79%) / Dominion (60.32%) / EKPC (9.89%)
b2961	Rebuild approximately 3 miles of Line #205 & Line #2003 from Chesterfield to Locks & Poe respectively		Dominion (100%)
b2962	Split Line #227 (Brambleton – Beaumeade 230 kV) and terminate into existing Belmont substation		Dominion (100%)
b2962.1	Replace the Beaumeade 230 kV breaker "274T2081" with 63kA breaker		Dominion (100%)
b2962.2	Replace the NIVO 230 kV breaker "2116T2130" with 63kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2963	Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and replace line terminal equipment at Possum Point, Woodbridge, and Occoquan		Dominion (100%)
b2978	Install 2-125 MVAR STATCOMs at Rawlings and 1-125 MVAR STATCOM at Clover 500 kV substations		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / Dominion (12.86%) / DPL (2.50%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation:
b2980	Rebuild 115 kV Line #43 between Staunton and Harrisonburg (22.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV Rebuild 115 kV Line #29 segment between Fredericksburg and Aquia		Dominion (100%) Dominion (100%)
b2981	Harbor to current 230 kV standards (operating at 115 kV) utilizing steel H-frame structures with 2-636 ACSR to provide a normal continuous summer rating of 524 MVA at 115 kV (1047 MVA at 230 kV)		Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Trai		Revenue Requirement	Responsible Customer(s)
b2989	Install a second 230/115 kV Transformer (224 MVA) approximately 1 mile north of Bremo and tie 230 kV Line #2028 (Bremo – Charlottesville) and 115 kV Line #91 (Bremo - Sherwood) together. A three breaker 230 kV ring bus will split Line #2028 into two lines and Line #91 will also be split into two lines with a new three breaker 115 kV ring bus. Install a temporary 230/115 kV transformer at Bremo substation for the interim until the new substation is complete		Dominion (100%)
b2990	Chesterfield to Basin 230 kV line – Replace 0.14 miles of 1109 ACAR with a conductor which will increase the line rating to approximately 706 MVA		Dominion (100%)
b2991	Chaparral to Locks 230 kV line – Replace breaker lead		Dominion (100%)
b2994	Acquire land and build a new switching station (Skippers) at the tap serving Brink DP with a 115 kV four breaker ring to split Line #130 and terminate the end points		Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
1 2010	Rebuild 500 kV Line #552		Dominion (12.86%) / EKPC
b3019	Bristers to Chancellor – 21.6 miles long		(1.87%) / JCPL (3.74%) / ME
	innes long		(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100 89.20%) /
			PEPCO (10.80%)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
	D-1		Dominion (12.86%) / EKPC
b3020	Rebuild 500 kV Line #574 Ladysmith to Elmont – 26.2		(1.87%) / JCPL (3.74%) / ME
03020	miles long		(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			<u>APS (16.36%) / DEOK</u>
			(11.61%) / Dominion
			(100 <u>51.27</u> %) / EKPC (5.30%)
			<u>/ PEPCO (15.46%)</u>

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Virginia Electric and Power Company (cont.)

required frai	ISTITISSIOTI LITITATICCITICITAS TATITAAT	revenue requirement	responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP (14.16%)
			<u>/ APS (5.73%) / ATSI</u>
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
	Rebuild 500 kV Line #581	DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC	
b3021	Ladysmith to Chancellor –		Dominion (12.86%) / EKPC
	15.2 miles long		(1.87%) / JCPL (3.74%) / ME
			(1.90%) / NEPTUNE*
		(0.44%) / PECO (5.34%)	(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Ira	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 11		Revenue Requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H-frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		nuai Revenue Requirement	Responsible Customer(s)
	Replace 4.5 miles of conductor between		
b2458.5	Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) /
/ APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) /
/ APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) /
/ BGE (4.11%) / ComEd Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) /
Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) /
breaker 563T576 and motor DEOK (3.22%) / DL (1.73%) /
operated switches with 3 DPL (2.48%) / Dominion
h2471 breaker 500 kV ring bus. (12 17%) / FVDC (2 12%) /
Terminate Lines # 563 Carson — Midlothian, #576 Terminate Lines # 563 Carson JCPL (3.71%) / ME (1.88%) /
Midlothian –North Anna, NEPTUNE* (0.42%) / PECO
Transformer #2 in new ring (5.34%) / PENELEC (1.86%) /
PEPCO (3.98%) / PPL (4.76%)
/ PSEG (6.19%) / RE (0.26%)
DFAX Allocation:
Dominion (100%)
Rebuild 115 kV Line #32
from Halifax-South Boston (6
miles) for min. of 240 MVÅ
b2504 and transfer Welco tap to Line #32 Moving Welco to Line Dominion (100%)
#32. Woving welco to Line
#32 requires disabling auto- sectionalizing scheme
Install structures in river to
remove the 115 kV #65 line
b2505 (Whitestone-Harmony Village)
113 kV) from orage and
improve reliability of the line
Replace the Loudoun 500 kV 'H2T502' breaker with a
50kA breaker Dominion (100%)
Replace the Loudoun 500 kV
b2543 'H2T584' breaker with a
Dominion (100%)
Reconductor wave trap at
b2565 Carver Substation with a Dominion (100%)
2000A wave trap Reconductor 1.14 miles of
existing line between ACCA
b2566 and Hermitage and upgrade Dominion (100%)
associated terminal equipment

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
	D 1 11.1 D1		
b2582	Rebuild the Elmont –		(13.17%) / EKPC (2.13%) /
	Cunningham 500 kV line		JCPL (3.71%) / ME (1.88%) /
			<u>NEPTUNE* (0.42%) / PECO</u>
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			<u>APS (9.27%) / Dominion</u>
			(100 90.73%)
	Install 500 kV breaker at		
b2583	Ox Substation to remove		Dominion (100%)
02303	Ox Tx#1 from H1T561		
	breaker failure outage. Relocate the Bremo load		
	(transformer #5) to #2028		
	(Bremo-Charlottesville		
b2584	230 kV) line and		Dominion (100%)
	Cartersville distribution		, ,
	station to #2027 (Bremo-		
	Midlothian 230 kV) line		
	Reconductor 7.63 miles of existing line between		
b2585	Cranes and Stafford,		DFAX Allocation:
02363	upgrade associated line		PEPCO (100%)
	switches at Stafford		
	Wreck and rebuild the		
	Chesapeake – Deep Creek		
	– Bowers Hill – Hodges		
b2620	Ferry 115 kV line;		Dominion (100%)
=====	minimum rating 239		2 3(10070)
	MVA normal/emergency, 275 MVA load dump		
	rating		
	raing		

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82 Everetts – Voice of America		
4.5.5.0	(20.8 miles) to current		7 (1000)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
b2630	GSU units #4 and #5. Install two 230 kV CCVT's on		Dominion (100%)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
	standards with summer		
	emergency rating of 353		
	MVA at 115 kV. Rebuild Carolina – Kerr		
	Dam 115 kV Line #90 (38.7		
b2648	miles) to current standards		Dominion (100%)
02046	with summer emergency		Dominion (10070)
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
b2649	(17.8 miles) to current		Daminia: (1000/)
02049	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		

Virginia Electric and Power Company (cont.)

Required 11		ii Revenue Requirement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Virginia Electric and Power Company (cont.)

required Trai		ii Kevenue Kequitement	Responsible Cusiomer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

required 11ai	ISHIISSIOH EHHAHCEHICHES AHHUA	ii Kevenue Kequirement	Responsible Cusiomer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
b2665	Rebuild the Cunningham – Dooms 500 kV line		(13.17%) / EKPC (2.13%) /
	Dooms 300 kv ille		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
1.0000	D " A I		D : (1000()
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to		Dominion (100%)
02000.1	Gordonsville Substation		Bommon (10070)
	utilizing existing ROW Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit		(1 1)
1000010	Upgrading sections of the		D :: (1000()
b2686.12	Somerset – Doubleday 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	circuit		, ,
1-2606 14	Upgrading sections of the Mitchell – Mt. Run 115 kV		Daminia: (1000/)
b2686.14	circuit		Dominion (100%)
	Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
	Substation		, ,

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement Responsible Customer(s)	
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
1.07.44	Rebuild the Carson – Rogers		(13.17%) / EKPC (2.13%) /
b2744	Rd 500 kV circuit		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 21.32 miles of		
b2745	existing line between Chesterfield – Lakeside 230 kV		Dominion (100%)
327.0			2 0111111011 (10070)
	Rebuild Line #137 Ridge Rd		
b2746.1	– Kerr Dam 115 kV, 8.0		Dominion (100%)
02/40.1	miles, for 346 MVA summer		Dominion (100%)
	emergency rating Rebuild Line #1009 Ridge Rd		
	- Chase City 115 kV, 9.5		
b2746.2	miles, for 346 MVA summer		Dominion (100%)
	emergency rating		
	Install a second 4.8 MVAR		
b2746.3	capacitor bank on the 13.8 kV bus of each transformer at		Dominion (100%)
	Ridge Rd		, ,
	Install a Motor Operated		
4	Switch and SCADA control		
b2747	between Dominion's		Dominion (100%)
	Gordonsville 115 kV bus and FirstEnergy's 115 kV line		
	I HOLLINGRY STID KV IIIIC		

Virginia Electric and Power Company (cont.)

Required Trai	ismission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
b2758	Rebuild Line #549 Dooms – Valley 500kV		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation: APS (0.09%) / DL (0.03%) /
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		Dominion (10099.88%) Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation: APS (87.50%) / ATSI (0.37%) / DL (0.19%) / Dominion (1001.04%) / EKPC (10.90%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
ь2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	nsmission Ennancements Annual I	Revenue Requirement	Responsible Customer(s)
b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2928	Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace the river crossing conductor with 3-1534 ACSR. This will increase the line #567 line rating from 1954 MVA to 2600 MVA		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b2929	Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards with a standard conductor (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%) Dominion (100%)
b2960	Replace fixed series capacitors on 500 kV Line #547 at Lexington and on 500 kV Line #548 at Valley		Dominion (100%)See sub-IDs for cost allocations

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annua	al Revenue Requirement Responsible Customer(s)	
		Load-Ratio Share Allocati	ion:
		AEC (1.61%) / AEP (14.10%)	/ APS
		(5.79%) / ATSI (7.95%) / B	<u> BGE</u>
		(4.11%) / ComEd (13.24%) / I	<u>Dayton</u>
		(2.07%) / DEOK (3.22%) /	DL
		(1.73%) / DPL (2.48%) / Don	<u>ninion</u>
	Replace fixed series	(13.17%) / EKPC (2.13%) / .	<u> JCPL</u>
<u>b2960.1</u>	capacitors on 500 kV Line	(3.71%) / ME (1.88%) / NEPT	<u>'UNE*</u>
	#547 at Lexington	(0.42%) / PECO (5.34%)	/
		<u>PENELEC (1.86%) / PEPO</u>	<u>CO</u>
		(3.98%) / PPL (4.76%) / PS	<u>SEG</u>
		(6.19%) / RE (0.26%)	
		DFAX Allocation:	
		<u>DEOK (6.04%) / Dominio</u>	
		(91.37%) / EKPC (2.59%)	<u>(a)</u>
		Load-Ratio Share Allocat	
		AEC (1.61%) / AEP (14.10%)	
	Replace fixed series	(5.79%) / ATSI (7.95%) / B	
		(4.11%) / ComEd (13.24%) / I	
		(2.07%) / DEOK (3.22%) /	
		(1.73%) / DPL (2.48%) / Don	
		(13.17%) / EKPC (2.13%) / 3	
<u>b2960.2</u>	capacitors on 500 kV Line	(3.71%) / ME (1.88%) / NEPT	
	#548 at Valley	(0.42%) / PECO (5.34%)	_
		<u>PENELEC (1.86%) / PEPO</u>	
		(3.98%) / PPL (4.76%) / PS	<u>SEG</u>
		(6.19%) / RE (0.26%)	
		DFAX Allocation:	
		<u>DEOK (29.79%) / Domini</u>	
	D-111 2	(60.32%) / EKPC (9.89%)	<u>o)</u>
	Rebuild approximately 3 miles of Line #205 & Line		
b2961	#2003 from Chesterfield to	Dominion (100%)	
	Locks & Poe respectively		
	Split Line #227		
b2962	(Brambleton – Beaumeade	Dominion (100%)	
	230 kV) and terminate into existing Belmont substation		
	Replace the Beaumeade		
b2962.1	¹ 230 kV breaker	Dominion (100%)	
02902.1	"274T2081" with 63kA	Dominion (100%)	
	breaker Parlace the NIVO 220 kV		
b2962.2	Replace the NIVO 230 kV breaker "2116T2130" with	Dominion (100%)	
02702.2	63kA breaker	Bollillion (10070)	

Virginia Electric and Power Company (cont.)

Required Tra	nsmission Enhancements Annu	al Revenue Requiremen	t Responsible Customer(s)
b2963	Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and replace line terminal equipment at Possum Point, Woodbridge, and Occoquan		Dominion (100%)
b2978	Install 2-125 MVAR STATCOMs at Rawlings and 1-125 MVAR STATCOM at Clover 500 kV substations		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation:
b2980	Rebuild 115 kV Line #43 between Staunton and Harrisonburg (22.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%) Dominion (100%)
b2981	Rebuild 115 kV Line #29 segment between Fredericksburg and Aquia Harbor to current 230 kV standards (operating at 115 kV) utilizing steel H-frame structures with 2-636 ACSR to provide a normal continuous summer rating of 524 MVA at 115 kV (1047 MVA at 230 kV)		Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Tra	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2989	Install a second 230/115 kV Transformer (224 MVA) approximately 1 mile north of Bremo and tie 230 kV Line #2028 (Bremo – Charlottesville) and 115 kV Line #91 (Bremo - Sherwood) together. A three breaker 230 kV ring bus will split Line #2028 into two lines and Line #91 will also be split into two lines with a new three breaker 115 kV ring bus. Install a temporary 230/115 kV transformer at Bremo substation for the interim until the new substation is complete		Dominion (100%)
b2990	Chesterfield to Basin 230 kV line – Replace 0.14 miles of 1109 ACAR with a conductor which will increase the line rating to approximately 706 MVA		Dominion (100%)
b2991	Chaparral to Locks 230 kV line – Replace breaker lead		Dominion (100%)
b2994	Acquire land and build a new switching station (Skippers) at the tap serving Brink DP with a 115 kV four breaker ring to split Line #130 and terminate the end points		Dominion (100%)
b3019	Rebuild 500 kV Line #552 Bristers to Chancellor – 21.6 miles long		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation: Dominion (10089.20%) / PEPCO (10.80%)

Virginia Electric and Power Company (cont.)

Required I rar	smission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			<u>DPL (2.48%) / Dominion</u>
	D 1 11 500 1 7 7 7 1 1 1 5 7 1		(13.17%) / EKPC (2.13%) /
b3020	Rebuild 500 kV Line #574		JCPL (3.71%) / ME (1.88%) /
03020	Ladysmith to Elmont – 26.2 miles long		<u>NEPTUNE* (0.42%) / PECO</u>
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			<u>APS (16.36%) / DEOK</u>
			(11.61%) / Dominion
			(100 <u>51.27</u> %) / EKPC (5.30%) /
			<u>PEPCO (15.46%)</u>
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			<u>/ APS (5.79%) / ATSI (7.95%)</u>
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
	Rebuild 500 kV Line #581		DPL (2.48%) / Dominion
b3021	Ladysmith to Chancellor –		(13.17%) / EKPC (2.13%) /
	15.2 miles long		JCPL (3.71%) / ME (1.88%) /
			<u>NEPTUNE* (0.42%) / PECO</u>
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Fra	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required Tra	ansmission Enhancements Annual R	Revenue Requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
	Replace the Beaumeade		-
b2404	230 kV breaker		Daminian (1000/)
	'227T2095' with 63kA		Dominion (100%)
	Replace the Pleasant view		
b2405	230 kV breaker '203T274'		D :: (1000/)
	with 63kA		Dominion (100%)
	Construct new		
	underground 230 kV line		
	from Glebe to Station C,		
1 0 4 40	rebuild Glebe Substation,		D : : (07.110/) / ME
b2443	construct 230 kV high		Dominion (97.11%) / ME
	side bus at Station C with		(0.18%) / PEPCO (2.71%)
	option to install 800 MVA		
	PAR		
	Replace the Idylwood 230		
b2443.1	kV breaker '203512' with		D (1000/)
9211011	50kA		Dominion (100%)
	Replace the Ox 230 kV		
b2443.2	breaker '206342' with		D (1000/)
	63kA breaker		Dominion (100%)
			DFAX Allocation:
b2443.3	Glebe – Station C PAR		Dominion (22.57%) / PEPCO
			,
	D 1 24 117 1 1		(77.43%)
	Replace 24 115 kV wood		
	h-frames with 230 kV		
b2457	Dominion pole H-frame		D :: (1000/)
	structures on the		Dominion (100%)
	Clubhouse – Purdy 115		
	kV line		
	Replace 12 wood H-frame		
	structures with steel H-		
1 2 4 5 0 1	frame structures and		
b2458.1	install shunts on all		Dominion (100%)
	conductor splices on		_ ::::::: (= ; : :)
	Carolina – Woodland 115		
	kV Upgrade all line switches		
	and substation		
	components at Carolina		
b2458.2	115 kV to meet or exceed		Dominian (1009/)
	new conductor rating of		Dominion (100%)
	174 MVA		
	Replace 14 wood H-frame		
b2458.3	structures on Carolina –		
02730.3	Woodland 115 kV		Dominion (100%)
	Replace 2.5 miles of static		`
b2458.4	wire on Carolina –		
02730.4	Woodland 115 kV		Dominion (100%)
	Woodiana 112 KV	<u> </u>	` ,

Virginia Electric and Power Company (cont.)

Required Tra		nuai Revenue Requirement	Responsible Customer(s)
	Replace 4.5 miles of conductor between		
b2458.5	Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
	Replace Midlothian 500 kV		(13.24%) / Dayton (2.07%) /
	breaker 563T576 and motor		DEOK (3.22%) / DL (1.73%) /
	operated switches with 3		DPL (2.48%) / Dominion
b2471	breaker 500 kV ring bus.		(13.17%) / EKPC (2.13%) /
32.,1	Terminate Lines # 563 Carson – Midlothian, #576		JCPL (3.71%) / ME (1.88%) /
	Midlothian –North Anna,		NEPTUNE* (0.42%) / PECO
	Transformer #2 in new ring		(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 115 kV Line #32		Dominion (10070)
	from Halifax-South Boston (6		
	miles) for min. of 240 MVA		
b2504	and transfer Welco tap to Line		Dominion (100%)
	#32. Moving Welco to Line		Bommon (10070)
	#32 requires disabling auto- sectionalizing scheme		
	Install structures in river to		
	remove the 115 kV #65 line		
b2505	(Whitestone-Harmony Village		Dominion (100%)
	115 kV) from bridge and		Dominion (10070)
	improve reliability of the line		
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a		
02372	50kA breaker		Dominion (100%)
	Replace the Loudoun 500 kV		
b2543	'H2T584' breaker with a		Dominion (100%)
	50kA breaker		Dominion (10078)
1,2565	Reconductor wave trap at Carver Substation with a		
b2565	2000A wave trap		Dominion (100%)
	Reconductor 1.14 miles of		
1-2566	existing line between ACCA		
b2566	and Hermitage and upgrade		Dominion (100%)
	associated terminal equipment		, ,

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			<u>/ APS (5.79%) / ATSI (7.95%)</u>
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
1.2502	Rebuild the Elmont –		(13.17%) / EKPC (2.13%) /
b2582	Cunningham 500 kV line		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			APS (9.27%) / Dominion
			(100 90.73%)
	Install 500 kV breaker at		
b2583	Ox Substation to remove		Dominion (100%)
02303	Ox Tx#1 from H1T561		Dominion (10070)
	breaker failure outage. Relocate the Bremo load		
	(transformer #5) to #2028		
	(Bremo-Charlottesville		
b2584	230 kV) line and		Dominion (100%)
	Cartersville distribution		
	station to #2027 (Bremo-		
	Midlothian 230 kV) line Reconductor 7.63 miles of		
	existing line between		DEAVAR 4
b2585	Cranes and Stafford,		DFAX Allocation:
	upgrade associated line		PEPCO (100%)
	switches at Stafford		
	Wreck and rebuild the		
b2620	Chesapeake – Deep Creek – Bowers Hill – Hodges		
	Ferry 115 kV line;		D
	minimum rating 239		Dominion (100%)
	MVA normal/emergency,		
	275 MVA load dump		
	rating		

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2628	Rebuild 115 kV Line #82 Everetts – Voice of America (20.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2629	Rebuild the 115 kV Lines #27 and #67 lines from Greenwich 115 kV to Burton 115 kV Structure 27/280 to current standard with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2630	Install circuit switchers on Gravel Neck Power Station GSU units #4 and #5. Install two 230 kV CCVT's on Lines #2407 and #2408 for loss of source sensing		Dominion (100%)
b2636	Install three 230 kV bus breakers and 230 kV, 100 MVAR Variable Shunt Reactor at Dahlgren to provide line protection during maintenance, remove the operational hazard and provide voltage reduction during light load conditions		Dominion (100%)
b2647	Rebuild Boydton Plank Rd – Kerr Dam 115 kV Line #38 (8.3 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2648	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7 miles) to current standards with summer emergency rating of 353 MVA 115 kV.		Dominion (100%)
b2649	Rebuild Clubhouse – Carolina 115 kV Line #130 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		il Revenue Requirement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tran		al Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

required Trai	ISHIISSIOH EHHANCEHICHS AHIIUA	ii Kevenue Kequitement	Responsible Cusiomer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
b2665	Rebuild the Cunningham – Dooms 500 kV line		(13.17%) / EKPC (2.13%) /
	Dooms 300 k v line		JCPL (3.71%) / ME (1.88%) /
			<u>NEPTUNE* (0.42%) / PECO</u>
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
4.5			
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to		Dominion (100%)
02000.1	Gordonsville Substation		Dominion (10070)
	utilizing existing ROW Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit		2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
1 2 60 6 4 5	Upgrading sections of the		7
b2686.12	Somerset – Doubleday 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	circuit		()
b2686.14	Upgrading sections of the		D :: (1000)
	Mitchell – Mt. Run 115 kV circuit		Dominion (100%)
	Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
	Substation		(/

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Trai		Annuai Nevenue Nequiten	ient Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Virginia Electric and Power Company (cont.)

Required I rai	ismission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
b2744	Rebuild the Carson – Rogers		(13.17%) / EKPC (2.13%) /
02/44	Rd 500 kV circuit		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			, , , ,
			DFAX Allocation:
	D 1 '1101 20 '1 C		Dominion (100%)
	Rebuild 21.32 miles of		
b2745	existing line between Chesterfield – Lakeside		Dominion (100%)
	230 kV		
	Rebuild Line #137 Ridge Rd		
b2746.1	– Kerr Dam 115 kV, 8.0		Dominion (100%)
02710.1	miles, for 346 MVA summer		Bommon (10070)
	emergency rating Rebuild Line #1009 Ridge Rd		
	- Chase City 115 kV, 9.5		
b2746.2	miles, for 346 MVA summer		Dominion (100%)
	emergency rating Install a second 4.8 MVAR		
b2746.3	capacitor bank on the 13.8 kV		Dominion (100%)
	bus of each transformer at Ridge Rd		,
	Install a Motor Operated		
	Switch and SCADA control		
b2747	between Dominion's		Dominion (100%)
	Gordonsville 115 kV bus and		
	FirstEnergy's 115 kV line		

Virginia Electric and Power Company (cont.)

required Trai	Ishnission Ehhancements Ahnuar	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
b2758	Rebuild Line #549 Dooms – Valley 500kV		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		APS (0.09%) / DL (0.03%) / Dominion (10099.88%) Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation: APS (87.50%) / ATSI (0.37%) / DL (0.19%) / Dominion (1001.04%) / EKPC (10.90%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
ь2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Ennancements Annual	Revenue Requirement	Responsible Customer(s)
b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2928	Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace the river crossing conductor with 3-1534 ACSR. This will increase the line #567 line rating from 1954 MVA to 2600 MVA		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation: Dominion (100%)
b2929	Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards with a standard conductor (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2960	Replace fixed series capacitors on 500 kV Line #547 at Lexington and on 500 kV Line #548 at Valley		Dominion (100%)See sub-IDs for cost allocations

Virginia Electric and Power Company (cont.)

Required Trai	ismission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
1.0000.1	Replace fixed series		(13.17%) / EKPC (2.13%) /
<u>b2960.1</u>	capacitors on 500 kV Line #547 at Lexington		JCPL (3.71%) / ME (1.88%) /
	#347 at Lexington		NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			DEOK (6.04%) / Dominion
			(91.37%) / EKPC (2.59%)
	Replace fixed series capacitors on 500 kV Line #548 at Valley		Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
1.2060.2			(13.17%) / EKPC (2.13%) /
<u>b2960.2</u>			JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			DEOK (29.79%) / Dominion
			(60.32%) / EKPC (9.89%)
	Rebuild approximately 3		
b2961	miles of Line #205 & Line		Dominion (100%)
02701	#2003 from Chesterfield to		20111111011 (10070)
1	Locks & Poe respectively		

Virginia Electric and Power Company (cont.)

		
b2962	Split Line #227 (Brambleton – Beaumeade 230 kV) and terminate into existing Belmont substation	Dominion (100%)
b2962.1	Replace the Beaumeade 230 kV breaker "274T2081" with 63kA breaker	Dominion (100%)
b2962.2	Replace the NIVO 230 kV breaker "2116T2130" with 63kA breaker	Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra	nsmission Enhancements Annu	al Revenue Requiremen	t Responsible Customer(s)
b2963	Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and replace line terminal equipment at Possum Point, Woodbridge, and Occoquan		Dominion (100%)
			Load-Ratio Share
			Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI
			(7.95%) / BGE (4.11%) /
			ComEd (13.24%) / Dayton
	Install 2-125 MVAR		(2.07%) / DEOK (3.22%) /
	STATCOMs at Rawlings		DL (1.73%) / DPL (2.48%) /
b2978	and 1-125 MVAR		Dominion (13.17%) / EKPC
	STATCOM at Clover 500		(2.13%) / JCPL (3.71%) / ME
	kV substations		(1.88%) / NEPTUNE*
			(0.42%) / PECO (5.34%) /
			PENELEC (1.86%) / PEPCO
			(3.98%) / PPL (4.76%) /
			PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 115 kV Line #43		`
	between Staunton and		
1-2000	Harrisonburg (22.8 miles)		Daminian (1000/)
b2980	to current standards with a		Dominion (100%)
	summer emergency rating		
	of 261 MVA at 115 kV		
	Rebuild 115 kV Line #29		
	segment between		
	Fredericksburg and Aquia		
b2981	Harbor to current 230 kV		
	standards (operating at 115		
	kV) utilizing steel H-frame		Dominion (100%)
	structures with 2-636		` '
	ACSR to provide a normal		
	continuous summer rating		
	of 524 MVA at 115 kV		
	(1047 MVA at 230 kV)		

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required I rai		Revenue Requirement	Responsible Customer(s)
b2989	Install a second 230/115 kV Transformer (224 MVA) approximately 1 mile north of Bremo and tie 230 kV Line #2028 (Bremo – Charlottesville) and 115 kV Line #91 (Bremo - Sherwood) together. A three breaker 230 kV ring bus will split Line #2028 into two lines and Line #91 will also be split into two lines with a new three breaker 115 kV ring bus. Install a temporary 230/115 kV transformer at Bremo substation for the interim until the new substation is complete		Dominion (100%)
b2990	Chesterfield to Basin 230 kV line – Replace 0.14 miles of 1109 ACAR with a conductor which will increase the line rating to approximately 706 MVA		Dominion (100%)
b2991	Chaparral to Locks 230 kV line – Replace breaker lead		Dominion (100%)
b2994	Acquire land and build a new switching station (Skippers) at the tap serving Brink DP with a 115 kV four breaker ring to split Line #130 and terminate the end points		Dominion (100%)
b3018	Rebuild Line #49 between New Road and Middleburg substations with single circuit steel structures to current 115 kV standards with a minimum summer emergency rating of 261 MVA		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required T	ransmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
	D 1 111 TOO 1777 1 1/2TO		DPL (2.48%) / Dominion
1-2010	Rebuild 500 kV Line #552 Bristers to Chancellor – 21.6		(13.17%) / EKPC (2.13%) /
b3019	miles long		JCPL (3.71%) / ME (1.88%) /
	innes rong		<u>NEPTUNE* (0.42%) / PECO</u>
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100 <u>89.20</u> %)/
			<u>PEPCO (10.80%)</u>
			Load-Ratio Share Allocation:
			<u>AEC (1.61%) / AEP (14.10%)</u>
			<u>/ APS (5.79%) / ATSI (7.95%)</u>
			/ BGE (4.11%) / ComEd
	D. L. : 11 500 LV I :		(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			<u>DPL (2.48%) / Dominion</u>
			(13.17%) / EKPC (2.13%) /
b3020	Rebuild 500 kV Line #574 Ladysmith to Elmont – 26.2		JCPL (3.71%) / ME (1.88%) /
03020	miles long		<u>NEPTUNE* (0.42%) / PECO</u>
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			<u>APS (16.36%) / DEOK</u>
			(11.61%) / Dominion
			(100 <u>51.27</u> %) / EKPC (5.30%) /
			PEPCO (15.46%)

Virginia Electric and Power Company (cont.)

Required Trai	ismission emancements Annuar	Revenue Requirement	Responsible Customer(s)
b3021	Rebuild 500 kV Line #581 Ladysmith to Chancellor – 15.2 miles long		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation: Dominion (100%)
b3026	Reconductor Line #274 (Pleasant View – Ashburn – Beaumeade 230 kV) with a minimum rating of 1200 MVA. Also upgrade terminal equipment		Dominion (100%)

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required 1ra		Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
ь1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 11		Revenue Requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H-frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		nuai Revenue Requirement	Responsible Customer(s)
	Replace 4.5 miles of conductor between		
b2458.5	Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) /
/ APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) /
/ APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) /
/ BGE (4.11%) / ComEd Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) /
Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) /
breaker 563T576 and motor DEOK (3.22%) / DL (1.73%) /
operated switches with 3 DPL (2.48%) / Dominion
h2471 breaker 500 kV ring bus. (12 17%) / FVDC (2 12%) /
Terminate Lines # 563 Carson — Midlothian, #576 Terminate Lines # 563 Carson JCPL (3.71%) / ME (1.88%) /
Midlothian –North Anna, NEPTUNE* (0.42%) / PECO
Transformer #2 in new ring (5.34%) / PENELEC (1.86%) /
PEPCO (3.98%) / PPL (4.76%)
/ PSEG (6.19%) / RE (0.26%)
DFAX Allocation:
Dominion (100%)
Rebuild 115 kV Line #32
from Halifax-South Boston (6
miles) for min. of 240 MVÅ
b2504 and transfer Welco tap to Line #32 Moving Welco to Line Dominion (100%)
#32. Woving welco to Line
#32 requires disabling auto- sectionalizing scheme
Install structures in river to
remove the 115 kV #65 line
b2505 (Whitestone-Harmony Village)
113 kV) from orage and
improve reliability of the line
Replace the Loudoun 500 kV 'H2T502' breaker with a
50kA breaker Dominion (100%)
Replace the Loudoun 500 kV
b2543 'H2T584' breaker with a
Dominion (100%)
Reconductor wave trap at
b2565 Carver Substation with a Dominion (100%)
2000A wave trap Reconductor 1.14 miles of
existing line between ACCA
b2566 and Hermitage and upgrade Dominion (100%)
associated terminal equipment

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
	5 1 11 1 51		<u>DPL (2.48%) / Dominion</u>
b2582	Rebuild the Elmont –		(13.17%) / EKPC (2.13%) /
32032	Cunningham 500 kV line		JCPL (3.71%) / ME (1.88%) /
			<u>NEPTUNE* (0.42%) / PECO</u>
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			APS (9.27%) / Dominion
			(100 90.73%)
	Install 500 kV breaker at		(100 <u>20178</u> 73)
b2583	Ox Substation to remove		Dominian (1000/)
02383	Ox Tx#1 from H1T561		Dominion (100%)
	breaker failure outage.		
	Relocate the Bremo load		
	(transformer #5) to #2028 (Bremo-Charlottesville		
b2584	230 kV) line and		Dominion (100%)
02364	Cartersville distribution		Dominion (10070)
	station to #2027 (Bremo-		
	Midlothian 230 kV) line		
	Reconductor 7.63 miles of		
10505	existing line between		DFAX Allocation:
b2585	Cranes and Stafford,		PEPCO (100%)
	upgrade associated line		12100 (10070)
	switches at Stafford Wreck and rebuild the		
	Chesapeake – Deep Creek		
	- Bowers Hill - Hodges		
1-2620	Ferry 115 kV line;		Daminian (1000/)
b2620	minimum rating 239		Dominion (100%)
	MVA normal/emergency,		
	275 MVA load dump		
	rating		

Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Ira	ansmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82 Everetts – Voice of America		
1.0.000	(20.8 miles) to current		7 (1000)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
b2630	GSU units #4 and #5. Install two 230 kV CCVT's on		Dominion (100%)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
	standards with summer		
	emergency rating of 353		
	MVA at 115 kV. Rebuild Carolina – Kerr		
	Dam 115 kV Line #90 (38.7		
b2648	miles) to current standards		Dominion (100%)
02046	with summer emergency		Dominion (10070)
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
b2649	(17.8 miles) to current		Daminia: (1000/)
02049	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		

Virginia Electric and Power Company (cont.)

Required 11		il Revenue Requirement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai		al Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Virginia Electric and Power Company (cont.)

required Trai	Ishnission Emancements Amida	ii Kevenue Kequirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
	D 1 314 C 1		DPL (2.48%) / Dominion
b2665	Rebuild the Cunningham – Dooms 500 kV line		(13.17%) / EKPC (2.13%) /
	Dooms 300 k v mic		JCPL (3.71%) / ME (1.88%) /
			<u>NEPTUNE* (0.42%) / PECO</u>
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
1.2606	D 4 A T		D :: (1000()
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to		Dominion (100%)
02000.1	Gordonsville Substation		Bommon (10070)
	utilizing existing ROW Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit		()
1260612	Upgrading sections of the		D :: (1000()
b2686.12	Somerset – Doubleday 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	circuit		(,
1260614	Upgrading sections of the		D :: (1000/)
b2686.14	Mitchell – Mt. Run 115 kV circuit		Dominion (100%)
	Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
	Substation		

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Train		Annuai Revenue Requiren	nent Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
b2744	Rebuild the Carson – Rogers		(13.17%) / EKPC (2.13%) /
	Rd 500 kV circuit		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 21.32 miles of		
b2745	existing line between		Dominion (100%)
027.10	Chesterfield – Lakeside 230 kV		2 0(10070)
	Rebuild Line #137 Ridge Rd		
b2746.1	– Kerr Dam 115 kV, 8.0		Dominion (100%)
02/40.1	miles, for 346 MVA summer		Dominion (10078)
	emergency rating Rebuild Line #1009 Ridge Rd		
	- Chase City 115 kV, 9.5		
b2746.2	miles, for 346 MVA summer		Dominion (100%)
	emergency rating		
	Install a second 4.8 MVAR		
b2746.3	capacitor bank on the 13.8 kV bus of each transformer at		Dominion (100%)
	Ridge Rd		, ,
	Install a Motor Operated		
	Switch and SCADA control		
b2747	between Dominion's		Dominion (100%)
	Gordonsville 115 kV bus and FirstEnergy's 115 kV line		
	Install a +/-125 MVAr		
b2757	Statcom at Colington 230 kV		Dominion (100%)
	State of the Configuration 250 KV		

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Ennancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
b2758	Rebuild Line #549 Dooms –		(13.17%) / EKPC (2.13%) /
02/38	Valley 500kV		JCPL (3.71%) / ME (1.88%) /
			<u>NEPTUNE* (0.42%) / PECO</u>
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			APS (0.09%) / DL (0.03%) /
			Dominion (100 <u>99.88</u> %)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
			AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd
			AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) /
			AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) /
			AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion
	Rebuild Line #550 Mt. Storm		AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) /
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) /
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO
b2759			AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) /
b2759			AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%)
b2759			AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)
b2759			AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation:
b2759			AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation: APS (87.50%) / ATSI (0.37%)
b2759			AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation:

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)
b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)

JCPL (3.71%) / ME (1.88%) /

NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DEOK (6.04%) / Dominion (91.37%) / EKPC (2.59%)

Virginia Electric and Power Company (cont.)

#547 at Lexington

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd Rebuild four structures of 500 (13.24%) / Dayton (2.07%) / kV line #567 from DEOK (3.22%) / DL (1.73%) / Chickahominy to Surry using DPL (2.48%) / Dominion galvanized steel and replace (13.17%) / EKPC (2.13%) / the river crossing conductor b2928 with 3-1534 ACSR. This will JCPL (3.71%) / ME (1.88%) / increase the line #567 line NEPTUNE* (0.42%) / PECO rating from 1954 MVA to (5.34%) / PENELEC (1.86%) / 2600 MVA PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** Dominion (100%) Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards b2929 with a standard conductor Dominion (100%) (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV Replace fixed series Dominion (100%)See sub-IDs capacitors on 500 kV Line b2960 #547 at Lexington and on 500 for cost allocations kV Line #548 at Valley **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion Replace fixed series (13.17%) / EKPC (2.13%) / b296<u>0.1</u> capacitors on 500 kV Line

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
	D - 1 6 1 1		DPL (2.48%) / Dominion
<u>b2960.2</u>	Replace fixed series capacitors on 500 kV Line		(13.17%) / EKPC (2.13%) /
02900.2	#548 at Valley		JCPL (3.71%) / ME (1.88%) /
			<u>NEPTUNE* (0.42%) / PECO</u>
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
		/ PSEG (6.19%) / RE (0.26%)	
			DFAX Allocation:
			<u>DEOK (29.79%) / Dominion</u>
			(60.32%) / EKPC (9.89%)
	Rebuild approximately 3		
b2961	miles of Line #205 & Line #2003 from Chesterfield to		Dominion (100%)
	Locks & Poe respectively		
	Split Line #227 (Brambleton		
b2962	– Beaumeade 230 kV) and		Dominion (100%)
02902	terminate into existing		Dominion (10070)
	Belmont substation		
b2962.1	Replace the Beaumeade 230 kV breaker "274T2081" with		Dominion (100%)
	63kA breaker		Dominion (10070)
	Replace the NIVO 230 kV		
b2962.2	breaker "2116T2130" with		Dominion (100%)
	63kA breaker		

Virginia Electric and Power Company (cont.)

Required Tr	ansmission Enhancements Annu	al Revenue Requiremen	t Responsible Customer(s)
b2963	Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and replace line terminal equipment at Possum Point, Woodbridge, and Occoquan		Dominion (100%)
			Load-Ratio Share
			Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI
			(7.95%) / BGE (4.11%) /
			ComEd (13.24%) / Dayton
	Install 2-125 MVAR		(2.07%) / DEOK (3.22%) /
	STATCOMs at Rawlings		DL (1.73%) / DPL (2.48%) /
b2978	and 1-125 MVAR		Dominion (13.17%) / EKPC
	STATCOM at Clover 500		(2.13%) / JCPL (3.71%) / ME
	kV substations		(1.88%) / NEPTUNE*
			(0.42%) / PECO (5.34%) /
			PENELEC (1.86%) / PEPCO
			(3.98%) / PPL (4.76%) /
			PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 115 kV Line #43		
	between Staunton and		
b2980	Harrisonburg (22.8 miles) to		Dominion (100%)
02980	current standards with a		Dominion (10078)
	summer emergency rating of		
	261 MVA at 115 kV		
	Rebuild 115 kV Line #29		
	segment between		
	Fredericksburg and Aquia		
	Harbor to current 230 kV		
	standards (operating at 115		
b2981	kV) utilizing steel H-frame		Dominion (100%)
	structures with 2-636 ACSR		
	to provide a normal		
	continuous summer rating of		
	524 MVA at 115 kV (1047		
	MVA at 230 kV)		

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required I rai		Revenue Requirement	Responsible Customer(s)
b2989	Install a second 230/115 kV Transformer (224 MVA) approximately 1 mile north of Bremo and tie 230 kV Line #2028 (Bremo – Charlottesville) and 115 kV Line #91 (Bremo - Sherwood) together. A three breaker 230 kV ring bus will split Line #2028 into two lines and Line #91 will also be split into two lines with a new three breaker 115 kV ring bus. Install a temporary 230/115 kV transformer at Bremo substation for the interim until the new substation is complete		Dominion (100%)
b2990	Chesterfield to Basin 230 kV line – Replace 0.14 miles of 1109 ACAR with a conductor which will increase the line rating to approximately 706 MVA		Dominion (100%)
b2991	Chaparral to Locks 230 kV line – Replace breaker lead		Dominion (100%)
b2994	Acquire land and build a new switching station (Skippers) at the tap serving Brink DP with a 115 kV four breaker ring to split Line #130 and terminate the end points		Dominion (100%)
b3018	Rebuild Line #49 between New Road and Middleburg substations with single circuit steel structures to current 115 kV standards with a minimum summer emergency rating of 261 MVA		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Irai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
	D 1 1115001777 4550		DPL (2.48%) / Dominion
b3019	Rebuild 500 kV Line #552 Bristers to Chancellor – 21.6		(13.17%) / EKPC (2.13%) /
03019	miles long		JCPL (3.71%) / ME (1.88%) /
	mines rong		<u>NEPTUNE* (0.42%) / PECO</u>
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100 <u>89.20</u> %)/
			<u>PEPCO (10.80%)</u>
			Load-Ratio Share Allocation:
	Rebuild 500 kV Line #574 Ladysmith to Elmont – 26.2		AEC (1.61%) / AEP (14.10%)
			<u>/ APS (5.79%) / ATSI (7.95%)</u>
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
			(13.17%) / EKPC (2.13%) /
b3020			JCPL (3.71%) / ME (1.88%) /
03020	miles long		<u>NEPTUNE* (0.42%) / PECO</u>
	8		(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			<u>APS (16.36%) / DEOK</u>
			(11.61%) / Dominion
			(100 <u>51.27</u> %) / EKPC (5.30%) /
			<u>PEPCO (15.46%)</u>

Virginia Electric and Power Company (cont.)

required Trai	ISHIISSIOH EHHAHCCHICHS AHHUAI	Kevenue Kequiternent	Responsible Cuswiner(s)
Required Trai	ISTRISSION ETHICHECTICIES ATTITUAL	Revenue requirement	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b3021	Rebuild 500 kV Line #581 Ladysmith to Chancellor – 15.2 miles long		/ BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) Dominion (100%)

Virginia Electric and Power Company (cont.)

required Trai	ISHIISSIOH EHHAHCCHICHIS AHHUAI	Revenue Requirement	responsible Cusionici(s)
b3026	Reconductor Line #274 (Pleasant View – Ashburn – Beaumeade 230 kV) with a minimum rating of 1200 MVA. Also upgrade terminal equipment		Dominion (100%)
b3027.1	Add a 2nd 500/230 kV 840 MVA transformer at Dominion's Ladysmith substation		Dominion (100%)
b3027.2	Reconductor 230 kV Line #2089 between Ladysmith and Ladysmith CT substations to increase the line rating from 1047 MVA to 1225 MVA		Dominion (100%)
b3027.3	Replace the Ladysmith 500 kV breaker "H1T581" with 50kA breaker		Dominion (100%)
b3027.4	Update the nameplate for Ladysmith 500 kV breaker "H1T575" to be 50kA breaker		Dominion (100%)
b3027.5	Update the nameplate for Ladysmith 500 kV breaker "568T574" (will be renumbered as "H2T568") to be 50kA breaker		Dominion (100%)
b3056	Partial rebuild 230 kV Line #2113 Waller to Lightfoot		Dominion (100%)
b3057	Rebuild 230 kV Lines #2154 and #19 Waller to Skiffes Creek		Dominion (100%)
b3058	Partial rebuild of 230 kV Lines #265, #200 and #2051		Dominion (100%)

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SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Fra	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 118		Revenue Requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

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Virginia Electric and Power Company (cont.)

Required Tra	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2443.6	Install a second 500/230 kV transformer at Possum Point substation and replace bus work and associated equipment as needed		Dominion (100%)
b2443.7	Replace 19 63kA 230 kV breakers with 19 80kA 230 kV breakers		Dominion (100%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tra		nual Revenue Requirement	Responsible Customer(s)
	Upgrade all line switches and substation components at Carolina		
b2458.2	115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Virginia Electric and Power Company (cont.)

Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd Replace Midlothian 500 kV breaker 563T576 and motor DEOK (3.22%) / DL (1.73%) /
/ APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / Breaker 563T576 and motor DEOK (3.22%) / DL (1.73%) /
Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) /
Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) /
breaker 563T576 and motor DEOK (3.22%) / DL (1.73%) /
operated switches with 3 DPL (2.48%) / Dominion
h2471 breaker 500 kV ring bus. (12 170/) / EVDC (2 120/) /
Terminate Lines # 563 Carson — Midlothian, #576 Terminate Lines # 563 Carson JCPL (3.71%) / ERFC (2.13%) / JCPL (3.71%) / ME (1.88%) /
Midlothian –North Anna, NEPTUNE* (0.42%) / PECO
Transformer #2 in new ring (5.34%) / PENELEC (1.86%) /
PEPCO (3.98%) / PPL (4.76%)
/ PSEG (6.19%) / RE (0.26%)
DFAX Allocation:
Dominion (100%)
Rebuild 115 kV Line #32
from Halifax-South Boston (6
miles) for min. of 240 MVA
b2504 and transfer Welco tap to Line #32 Moving Welco to Line Dominion (100%)
#32. Woving welco to Line
#32 requires disabling auto- sectionalizing scheme
Install structures in river to
remove the 115 kV #65 line
b2505 (Whitestone-Harmony Village)
113 kV) from orige and
improve reliability of the line
Replace the Loudoun 500 kV 'H2T502' breaker with a
Dominion (100%)
Replace the Loudoun 500 kV
b2543 'H2T584' breaker with a
50kA breaker Dominion (100%)
Reconductor wave trap at
b2565 Carver Substation with a 2000A wave trap Dominion (100%)
Reconductor 1.14 miles of
ovicting line between ACCA
and Hermitage and upgrade Dominion (100%)
associated terminal equipment

Virginia Electric and Power Company (cont.)

Required Tr	ansmission Enhancements An	nual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
1.2502	Rebuild the Elmont –		(13.17%) / EKPC (2.13%) /
b2582	Cunningham 500 kV line		JCPL (3.71%) / ME (1.88%) /
	_		NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			APS (9.27%) / Dominion
			(100 90.73%)
	Install 500 kV breaker at		
b2583	Ox Substation to remove		Dominion (100%)
02303	Ox Tx#1 from H1T561		Bommon (10070)
	breaker failure outage. Relocate the Bremo load		
	(transformer #5) to #2028		
	(Bremo-Charlottesville		
b2584	230 kV) line and		Dominion (100%)
	Cartersville distribution		
	station to #2027 (Bremo- Midlothian 230 kV) line		
	Reconductor 7.63 miles of		
	existing line between		DFAX Allocation:
b2585	Cranes and Stafford,		
	upgrade associated line		PEPCO (100%)
	switches at Stafford		
	Wreck and rebuild the Chesapeake – Deep Creek		
	- Bowers Hill - Hodges		
1.2620	Ferry 115 kV line;		Daninia (1000/)
b2620	minimum rating 239		Dominion (100%)
	MVA normal/emergency,		
	275 MVA load dump		
1	rating		

Virginia Electric and Power Company (cont.)

Required 1ra		ual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required 1ra	ansmission Enhancements Annua	ıl Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82		
	Everetts – Voice of America		
1-2629	(20.8 miles) to current		Daminian (1000/)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		, ,
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
1.2620	GSU units #4 and #5. Install		D (1000/)
b2630	two 230 kV CCVT's on		Dominion (100%)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions Rebuild Boydton Plank Rd –		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Daminian (1000/)
02047	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
	Dam 115 kV Line #90 (38.7		
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
b2649	(17.8 miles) to current		Dominion (100%)
02047	standards with summer		Dominion (10070)
	emergency rating of 353		
	MVA at 115 kV.		

Virginia Electric and Power Company (cont.)

Required 118		ii Kevenue Kequiremeni	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)
<u>b2654.3</u>	Install a 2nd 224 MVA 230/115 kV transformer at Hathaway		Dominion (100%)

Virginia Electric and Power Company (cont.)

required Trai	ISHIISSIOH EHHANCEHICHG AHITU	ai Revenue Requirement	Responsible Cusiomer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
b2665	Rebuild the Cunningham –		(13.17%) / EKPC (2.13%) /
02003	Dooms 500 kV line		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
1.00001	Remington Substation to		D :: (1000()
b2686.1	Gordonsville Substation	5	Dominion (100%)
	utilizing existing ROW		
1,2696 11	Upgrading sections of the Gordonsville – Somerset		Daminian (1000/)
b2686.11	Gordonsville – Somerset 115 kV circuit		Dominion (100%)
b2686.12	Upgrading sections of the Somerset – Doubleday 115		Dominion (100%)
	kV circuit		` ,
b2686.13	Upgrading sections of the Orange – Somerset 115 kV		Dominion (1009/)
02080.13	circuit		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		` ,
1-2696.2	Install a 3rd 230/115 kV		Daminian (1000/)
b2686.2	transformer at Gordonsville Substation		Dominion (100%)
	Substation		

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Train		Annuai Revenue Requiren	nent Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
		/ APS (5.79%) / ATSI (7.95%)	
			/ BGE (4.11%) / ComEd
		(13.24%) / Dayton (2.07%) /	
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
b2744	b2744 Rebuild the Carson – Rogers	(13.17%) / EKPC (2.13%) /	
02711	Rd 500 kV circuit		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 21 32 miles of		Dominion (10078)
1 27 4 5			Dominion (100%)
b2745	Chesterfield – Lakeside		
	230 kV		
	Rebuild Line #137 Ridge Rd		
b2746.1			Dominion (100%)
	Rebuild Line #1009 Ridge Rd		
b2746.2	– Chase City 115 kV, 9.5		Dominion (100%)
02/40.2			Dominion (10070)
	Install a second 4.8 MVAP		
b2746.3	bus of each transformer at		Dominion (100%)
	Ridge Rd		
	Install a Motor Operated		
1.2747			Danisian (1000/)
b2747			Dominion (100%)
		Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV ebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 illes, for 346 MVA summer emergency rating build Line #1009 Ridge Rd – Chase City 115 kV, 9.5 illes, for 346 MVA summer emergency rating build Line #1009 Ridge Rd – Chase City 115 kV, 9.5 illes, for 346 MVA summer emergency rating nstall a second 4.8 MVAR pacitor bank on the 13.8 kV bus of each transformer at	
L		I .	

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
b2758	Rebuild Line #549 Dooms – Valley 500kV		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation: APS (0.09%) / DL (0.03%) / Dominion (10099.88%)
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation: APS (87.50%) / ATSI (0.37%) / DL (0.19%) / Dominion (1001.04%) / EKPC (10.90%)

Virginia Electric and Power Company (cont.)

Required Tra	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	nsmission Ennancements Annual	Revenue Requirement	Responsible Customer(s)
b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2928	Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace the river crossing conductor with 3-1534 ACSR. This will increase the line #567 line rating from 1954 MVA to 2600 MVA		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation: Dominion (100%)
b2929	Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards with a standard conductor (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2960	Replace fixed series capacitors on 500 kV Line #547 at Lexington and on 500 kV Line #548 at Valley		Dominion (100%)See sub-IDs for cost allocations

Virginia Electric and Power Company (cont.)

Required Trai	ismission Enhancements Annual	Revenue Requirement	Responsible Customer(s)	
			Load-Ratio Share Allocation:	
			AEC (1.61%) / AEP (14.10%)	
			/ APS (5.79%) / ATSI (7.95%)	
			/ BGE (4.11%) / ComEd	
			(13.24%) / Dayton (2.07%) /	
			DPL (2.48%) / Dominion	
1.00.00.4	Replace fixed series			
<u>b2960.1</u>	capacitors on 500 kV Line		JCPL (3.71%) / ME (1.88%) /	
	#547 at Lexington			
			AEC (1.61%) / AEP (14.10%)	
			/ APS (5.79%) / ATSI (7.95%)	
			/ BGE (4.11%) / ComEd	
			(13.24%) / Dayton (2.07%) /	
			DEOK (3.22%) / DL (1.73%) /	
			DPL (2.48%) / Dominion	
	Replace fixed series		(13.17%) / EKPC (2.13%) /	
<u>b2960.2</u>	Replace fixed series capacitors on 500 kV Line		JCPL (3.71%) / ME (1.88%) /	
<u>02700.2</u>	#548 at Valley			
			<u>NEPTUNE* (0.42%) / PECO</u> (5.34%) / PENELEC (1.86%) /	
			PEPCO (3.98%) / PPL (4.76%)	
			/ PSEG (6.19%) / RE (0.26%)	
			DFAX Allocation:	
			<u>DEOK (29.79%) / Dominion</u>	
	Delevild annoving to 1 2		(60.32%) / EKPC (9.89%)	
	Rebuild approximately 3 miles of Line #205 & Line			
b2961	#2003 from Chesterfield to		Dominion (100%)	
	Locks & Poe respectively			
	Split Line #227 (Brambleton			
b2962	 Beaumeade 230 kV) and 		Dominion (100%)	
02702	terminate into existing		Dominion (10070)	
	Belmont substation			

Virginia Electric and Power Company (cont.)

b2962.1	Replace the Beaumeade 230 kV breaker "274T2081" with 63kA breaker	Dominion (100%)
b2962.2	Replace the NIVO 230 kV breaker "2116T2130" with 63kA breaker	Dominion (100%)
b2963	Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and replace line terminal equipment at Possum Point, Woodbridge, and Occoquan	Dominion (100%)

Virginia Electric and Power Company (cont.)

nsmission Enhancements Annu	ai Revenue Requiremen	1
		Load-Ratio Share
		Allocation:
		AEC (1.61%) / AEP (14.10%)
		/ APS (5.79%) / ATSI
		(7.95%) / BGE (4.11%) /
		ComEd (13.24%) / Dayton
Install 2-125 MVAR		(2.07%) / DEOK (3.22%) /
STATCOMs at Rawlings		DL (1.73%) / DPL (2.48%) /
and 1-125 MVAR		Dominion (13.17%) / EKPC
STATCOM at Clover 500		(2.13%) / JCPL (3.71%) / ME
kV substations		(1.88%) / NEPTUNE*
		(0.42%) / PECO (5.34%) /
		PENELEC (1.86%) / PEPCO
		(3.98%) / PPL (4.76%) /
		PSEG (6.19%) / RE (0.26%)
		DFAX Allocation:
		Dominion (100%)
Rebuild 115 kV Line #43		
between Staunton and		
Harrisonburg (22.8 miles)		Daminian (1000/)
to current standards with a		Dominion (100%)
summer emergency rating		
of 261 MVA at 115 kV		
Rebuild 115 kV Line #29		
segment between		
Fredericksburg and Aquia		
Harbor to current 230 kV		
standards (operating at 115		
, <u>,</u> _		Dominion (100%)
structures with 2-636		,
ACSR to provide a normal		
of 524 MVA at 115 kV		
(1047 MVA at 230 kV)		
	Install 2-125 MVAR STATCOMs at Rawlings and 1-125 MVAR STATCOM at Clover 500 kV substations Rebuild 115 kV Line #43 between Staunton and Harrisonburg (22.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV Rebuild 115 kV Line #29 segment between Fredericksburg and Aquia Harbor to current 230 kV standards (operating at 115 kV) utilizing steel H-frame structures with 2-636 ACSR to provide a normal continuous summer rating of 524 MVA at 115 kV	Install 2-125 MVAR STATCOMs at Rawlings and 1-125 MVAR STATCOM at Clover 500 kV substations Rebuild 115 kV Line #43 between Staunton and Harrisonburg (22.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV Rebuild 115 kV Line #29 segment between Fredericksburg and Aquia Harbor to current 230 kV standards (operating at 115 kV) utilizing steel H-frame structures with 2-636 ACSR to provide a normal continuous summer rating of 524 MVA at 115 kV

^{*}Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Tran	nsmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
	Install a second 230/115 kV		
	Transformer (224 MVA)		
	approximately 1 mile north		
	of Bremo and tie 230 kV		
	Line #2028 (Bremo –		
	Charlottesville) and 115 kV		
	Line #91 (Bremo -		
	Sherwood) together. A		
1 2000	three breaker 230 kV ring		D :: (1000/)
b2989	bus will split Line #2028		Dominion (100%)
	into two lines and Line #91		
	will also be split into two lines with a new three		
	breaker 115 kV ring bus.		
	Install a temporary 230/115		
	kV transformer at Bremo		
	substation for the interim		
	until the new substation is		
	complete		
	Chesterfield to Basin 230		
	kV line – Replace 0.14		
1-2000	miles of 1109 ACAR with		Daminian (1000/)
b2990	a conductor which will		Dominion (100%)
	increase the line rating to		
	approximately 706 MVA		
b2991	Chaparral to Locks 230 kV		Daminian (1009/)
02991	line – Replace breaker lead		Dominion (100%)
	Acquire land and build a		
	new switching station		
	(Skippers) at the tap		
b2994	serving Brink DP with a		Dominion (100%)
	115 kV four breaker ring to		, , ,
	split Line #130 and		
	terminate the end points		
	Rebuild Line #49 between		
	New Road and Middleburg		
	substations with single		
b3018	circuit steel structures to		Dominion (100%)
	current 115 kV standards		(/
	with a minimum summer		
	emergency rating of 261 MVA		
	1 V1 V /\(\Omega\)		

Virginia Electric and Power Company (cont.)

Koquilou 11ai	ISHIISSIOH EHHAHCEHIEHIS AHHU	ai Kevenue Kequirement	Responsible Customer(s)
b3019	Rebuild 500 kV Line #552 Bristers to Chancellor – 21.6 miles long		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation: Dominion (10089.20%) / PEPCO (10.80%)
b3019.1	Update the nameplate for Morrisville 500 kV breaker "H1T594" to be 50kA		Dominion (100%)
b3019.2	Update the nameplate for Morrisville 500 kV breaker "H1T545" to be 50kA		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Tran	nsmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b3020	Rebuild 500 kV Line #574 Ladysmith to Elmont – 26.2 miles long		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b3021	Rebuild 500 kV Line #581 Ladysmith to Chancellor – 15.2 miles long		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)
b3026	Reconductor Line #274 (Pleasant View – Ashburn – Beaumeade 230 kV) with a minimum rating of 1200 MVA. Also upgrade terminal equipment		Dominion (100%) Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Trai	ismission Ennancements Annual	Revenue Requirement	Responsible Customer(s)
b3027.1	Add a 2nd 500/230 kV 840 MVA transformer at Dominion's Ladysmith substation		Dominion (100%)
b3027.2	Reconductor 230 kV Line #2089 between Ladysmith and Ladysmith CT substations to increase the line rating from 1047 MVA to 1225 MVA		Dominion (100%)
b3027.3	Replace the Ladysmith 500 kV breaker "H1T581" with 50kA breaker		Dominion (100%)
b3027.4	Update the nameplate for Ladysmith 500 kV breaker "H1T575" to be 50kA breaker		Dominion (100%)
b3027.5	Update the nameplate for Ladysmith 500 kV breaker "568T574" (will be renumbered as "H2T568") to be 50kA breaker		Dominion (100%)
b3055	Install spare 230/69 kV transformer at Davis substation		Dominion (100%)
b3056	Partial rebuild 230 kV Line #2113 Waller to Lightfoot		Dominion (100%)
b3057	Rebuild 230 kV Lines #2154 and #19 Waller to Skiffes Creek		Dominion (100%)
b3058	Partial rebuild of 230 kV Lines #265, #200 and #2051		Dominion (100%)
b3059	Rebuild 230 kV Line #2173 Loudoun to Elklick		Dominion (100%)

Virginia Electric and Power Company (cont.)

	instrussion Emicrocontents 7 minute 1	responsible editioner(s)
b3060	Rebuild 4.6 mile Elklick – Bull Run 230 kV Line #295 and the portion (3.85 miles) of the Clifton – Walney 230 kV Line #265 which shares structures with Line #295	Dominion (100%)
b3088	Rebuild 4.75 mile section of Line #26 between Lexington and Rockbridge with a minimum summer emergency rating of 261 MVA	Dominion (100%)
b3089	Rebuild 230 kV Line #224 between Lanexa and Northern Neck utilizing double circuit structures to current 230 kV standards. Only one circuit is to be installed on the structures with this project with a minimum summer emergency rating of 1047 MVA	Dominion (100%)
b3090	Convert the overhead portion (approx. 1500 feet) of 230 kV Lines #248 & #2023 to underground and convert Glebe substation to gas insulated substation	Dominion (100%)

Attachment B

Schedule 12 – Appendix A of the PJM Open Access Transmission Tariff

(Clean Format)

Version: 3.1.4

Effective Date: May 25, 2015

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new ConEd (50.82%) / ECP b2276 230 kV bay at Sewaren (49.18%) 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV ConEd (50.82%) / ECP b2276.1 circuits including (49.18%) Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to ConEd (50.82%) / ECP b2276.2 accommodate the two (49.18%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV breaker 10X with 63kA b2295 PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%) / ConEd (0.57%) / Dayton (2.01%) / DEOK (3.21%) / DL (1.69%) / DPL (2.43%) / Convert the Bergen -Dominion (12.42%) / EKPC Homestead "F" 138 kV (2.15%) / HTP*** (0.20%) / b2436.11 circuit to 345 kV and any JCPL (3.54%) / ME (1.77%) / associated substation NEPTUNE* (0.42%) / PECO upgrades (5.18%) / PENELEC (1.92%) / PEPCO (3.98%) / PPL (5.05%) / PSEG (5.97%) / RE (0.25%) / ECP** (0.20%) **DFAX Allocation:** ConEd (94.04%) / HTP*** (0.51%) / ECP** (5.45%)**Load-Ratio Share Allocation:** AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%) / ConEd (0.57%) / Dayton (2.01%) / DEOK (3.21%) / DL (1.69%) / DPL (2.43%) / Convert the Bergen -Dominion (12.42%) / EKPC North Bergen "E" 138 kV (2.15%) / HTP*** (0.20%) / b2436.12 circuit to 345 kV and any JCPL (3.54%) / ME (1.77%) / associated substation NEPTUNE* (0.42%) / PECO upgrades (5.18%) / PENELEC (1.92%) / PEPCO (3.98%) / PPL (5.05%) / PSEG (5.97%) / RE (0.25%) / ECP** (0.20%) **DFAX Allocation:** ConEd (94.32%) / HTP*** (0.22%) / ECP** (5.46%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements A	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.53%) / AEP (15.32%) /
		APS (5.87%) / ATSI (7.76%) /
		BGE (4.18%) / ComEd (12.38%)
		/ ConEd (0.57%) / Dayton
		(2.01%) / DEOK (3.21%) / DL
	Convert the North Bergen	(1.69%) / DPL (2.43%) /
	- Homestead "E" 138 kV	Dominion (12.42%) / EKPC
b2436.13	circuit to 345 kV and any	(2.15%) / HTP*** (0.20%) /
02430.13	associated substation	JCPL (3.54%) / ME (1.77%) /
	upgrades	NEPTUNE* (0.42%) / PECO
	upgrades	(5.18%) / PENELEC (1.92%) /
		PEPCO (3.98%) / PPL (5.05%) /
		PSEG (5.97%) / RE (0.25%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (93.88%) / HTP***
		(0.68%) / ECP** (5.44%)
		Load-Ratio Share Allocation:
		AEC (1.53%) / AEP (15.32%) /
		AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) /
		AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%)
		AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%) / ConEd (0.57%) / Dayton
		AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%) / ConEd (0.57%) / Dayton (2.01%) / DEOK (3.21%) / DL
	Consequent the Henry total	AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%)
	Convert the Homestead -	AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%)
12426 14	Marion "E" 138 kV circuit	AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%)
b2436.14	Marion "E" 138 kV circuit to 345 kV and any	AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%)
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%)
b2436.14	Marion "E" 138 kV circuit to 345 kV and any	AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%)
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%)
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%)
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%)
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%)
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%)
b2436.14	Marion "E" 138 kV circuit to 345 kV and any associated substation	AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements Annual Revenue Requirement Responsible Customer(s)		
		Load-Ratio Share Alloca	tion:
	Convert the Homestead - Marion "F" 138 kV circuit to 345 kV and any associated substation upgrades	AEC (1.53%) / AEP (15.3%)	2%)/
		APS (5.87%) / ATSI (7.76	5%)/
		BGE (4.18%) / ComEd (12	
		/ ConEd (0.57%) / Dayt	on
		(2.01%) / DEOK (3.21%)	/ DL
		(1.69%) / DPL (2.43%)) /
		Dominion (12.42%) / EK	PC
		(2.15%) / HTP*** (0.209	%)/
b2436.15		JCPL (3.54%) / ME (1.77	⁽ %)/
		NEPTUNE* (0.42%) / PE	ECO
		(5.18%) / PENELEC (1.92	2%)/
		PEPCO (3.98%) / PPL (5.0	
		PSEG (5.97%) / RE (0.25	%)/
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (92.45%) / HTP*	
		(0.39%) / ECP** (5.35%) /	
		(1.74%) / RE (0.07%)	
	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Alloca	
		AEC (1.53%) / AEP (15.32)	,
		APS (5.87%) / ATSI (7.76	,
		BGE (4.18%) / ComEd (12	
		/ ConEd (0.57%) / Dayt	
		(2.01%) / DEOK (3.21%)	
		(1.69%) / DPL (2.43%)	
		Dominion (12.42%) / EK	
b2436.21		(2.15%) / HTP*** (0.209	
02 130.21		JCPL (3.54%) / ME (1.77	
		NEPTUNE* (0.42%) / PE	
		(5.18%) / PENELEC (1.92	
		PEPCO (3.98%) / PPL (5.0	
		PSEG (5.97%) / RE (0.25	%)/
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (85.83%) / HTP*	
		(13.21%) / ECP** (0.96	%)

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Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)	
		Load-Ratio Share Allocation:	
	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	AEC (1.53%) / AEP (15.32%) /	
		APS (5.87%) / ATSI (7.76%) /	
		BGE (4.18%) / ComEd (12.38%)	
		/ ConEd (0.57%) / Dayton	
		(2.01%) / DEOK (3.21%) / DL	
		(1.69%) / DPL (2.43%) /	
		Dominion (12.42%) / EKPC	
b2436.22		(2.15%) / HTP*** (0.20%) /	
02430.22		JCPL (3.54%) / ME (1.77%) /	
		NEPTUNE* (0.42%) / PECO	
		(5.18%) / PENELEC (1.92%) /	
		PEPCO (3.98%) / PPL (5.05%) /	
		PSEG (5.97%) / RE (0.25%) /	
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (85.83%) / HTP***	
		(13.21%) / ECP** (0.96%)	
	Convert the Bayonne - PVSC "I" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation:	
		AEC (1.53%) / AEP (15.32%) /	
		APS (5.87%) / ATSI (7.76%) /	
		BGE (4.18%) / ComEd (12.38%)	
		/ ConEd (0.57%) / Dayton	
		(2.01%) / DEOK (3.21%) / DL	
		(1.69%) / DPL (2.43%) /	
		Dominion (12.42%) / EKPC	
b2436.31		(2.15%) / HTP*** (0.20%) /	
02430.31		JCPL (3.54%) / ME (1.77%) /	
		NEPTUNE* (0.42%) / PECO	
		(5.18%) / PENELEC (1.92%) /	
		PEPCO (3.98%) / PPL (5.05%) /	
		PSEG (5.97%) / RE (0.25%) /	
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (86.70%) / HTP***	
		(12.33%) / ECP** (0.97%)	

^{*}Neptune Regional Transmission System, LLC **East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)	
		Load-Ratio Share Allocation:	
		AEC (1.53%) / AEP (15.32%) /	
	Construct a new Bayonne - PVSC 345 kV circuit and any associated substation upgrades	APS (5.87%) / ATSI (7.76%) /	
		BGE (4.18%) / ComEd (12.38%)	
		/ ConEd (0.57%) / Dayton	
		(2.01%) / DEOK (3.21%) / DL	
		(1.69%) / DPL (2.43%) /	
		Dominion (12.42%) / EKPC	
b2436.32		(2.15%) / HTP*** (0.20%) /	
02430.32		JCPL (3.54%) / ME (1.77%) /	
		NEPTUNE* (0.42%) / PECO	
		(5.18%) / PENELEC (1.92%) /	
		PEPCO (3.98%) / PPL (5.05%) /	
		PSEG (5.97%) / RE (0.25%) /	
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (86.67%) / HTP***	
		(12.32%) / ECP** (1.01%)	
	Convert the PVSC - North Ave "E" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation:	
		AEC (1.53%) / AEP (15.32%) /	
		APS (5.87%) / ATSI (7.76%) /	
		BGE (4.18%) / ComEd (12.38%)	
		/ ConEd (0.57%) / Dayton	
		(2.01%) / DEOK (3.21%) / DL	
		(1.69%) / DPL (2.43%) /	
		Dominion (12.42%) / EKPC	
b2436.41		(2.15%) / HTP*** (0.20%) /	
02430.41		JCPL (3.54%) / ME (1.77%) /	
		NEPTUNE* (0.42%) / PECO	
		(5.18%) / PENELEC (1.92%) /	
		PEPCO (3.98%) / PPL (5.05%) /	
		PSEG (5.97%) / RE (0.25%) /	
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (86.92%) / HTP***	
		(12.36%) / ECP** (0.72%)	

^{*}Neptune Regional Transmission System, LLC **East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.53%) / AEP (15.32%) / APS (5.87%) / ATSI (7.76%) / BGE (4.18%) / ComEd (12.38%) / ConEd (0.57%) / Dayton (2.01%) / DEOK (3.21%) / DL (1.69%) / DPL (2.43%) / Construct a new PVSC -Dominion (12.42%) / EKPC (2.15%) / HTP*** (0.20%) / North Ave 345 kV circuit b2436.42 JCPL (3.54%) / ME (1.77%) / and any associated substation upgrades NEPTUNE* (0.42%) / PECO (5.18%) / PENELEC (1.92%) / PEPCO (3.98%) / PPL (5.05%) / PSEG (5.97%) / RE (0.25%) / ECP** (0.20%) **DFAX Allocation:** ConEd (86.93%) / HTP*** (12.36%) / ECP** (0.71%) Construct a new North ConEd (86.59%) / HTP*** Ave - Airport 345 kV b2436.50 circuit and any associated (12.31%) / ECP** (1.10%) substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (87.35%) / HTP*** b2436.60 to Bayway, convert it to (12.42%) / ECP** (0.23%) 345 kV, and any associated substation upgrades Construct a new Airport -ConEd (87.43%) / HTP*** Bayway 345 kV circuit b2436.70 and any associated (12.43%) / ECP** (0.14%) substation upgrades

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements A	smission Enhancements Annual Revenue Requirement Responsible Customer(s)	
		Load-Ratio Share Allocation:	
		AEC (1.53%) / AEP (15.32%) /	
	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades	APS (5.87%) / ATSI (7.76%) /	
		BGE (4.18%) / ComEd (12.38%)	
		/ ConEd (0.57%) / Dayton	
		(2.01%) / DEOK (3.21%) / DL	
		(1.69%) / DPL (2.43%) /	
		Dominion (12.42%) / EKPC	
		(2.15%) / HTP*** (0.20%) /	
b2436.81		JCPL (3.54%) / ME (1.77%) /	
		NEPTUNE* (0.42%) / PECO	
		(5.18%) / PENELEC (1.92%) /	
		PEPCO (3.98%) / PPL (5.05%) /	
		PSEG (5.97%) / RE (0.25%) /	
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (22.94%) / HTP***	
		(5.10%) / ECP** (0.08%) / PSEG	
		(69.17%) / RE (2.71%)	
		Load-Ratio Share Allocation:	
	Convert the Bayway - Linden "X" 138 kV circuit to 345 kV and any associated substation upgrades	AEC (1.53%) / AEP (15.32%) /	
		APS (5.87%) / ATSI (7.76%) /	
		BGE (4.18%) / ComEd (12.38%)	
		/ ConEd (0.57%) / Dayton	
		(2.01%) / DEOK (3.21%) / DL	
		(1.69%) / DPL (2.43%) /	
		Dominion (12.42%) / EKPC	
		(2.15%) / HTP*** (0.20%) /	
b2436.82		JCPL (3.54%) / ME (1.77%) /	
		NEPTUNE* (0.42%) / PECO	
		(5.18%) / PENELEC (1.92%) /	
		PEPCO (3.98%) / PPL (5.05%) /	
		PSEG (5.97%) / RE (0.25%) /	
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (22.94%) / HTP***	
		(5.10%) / ECP** (0.08%) / PSEG	
		(69.17%) / RE (2.71%)	

^{*}Neptune Regional Transmission System, LLC **East Coast Power, L.L.C.

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Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)	
		Load-Ratio Share Allocation:	
		AEC (1.53%) / AEP (15.32%) /	
	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades	APS (5.87%) / ATSI (7.76%) /	
		BGE (4.18%) / ComEd (12.38%)	
		/ ConEd (0.57%) / Dayton	
		(2.01%) / DEOK (3.21%) / DL	
		(1.69%) / DPL (2.43%) /	
		Dominion (12.42%) / EKPC	
		(2.15%) / HTP*** (0.20%) /	
b2436.83		JCPL (3.54%) / ME (1.77%) /	
		NEPTUNE* (0.42%) / PECO	
		(5.18%) / PENELEC (1.92%) /	
		PEPCO (3.98%) / PPL (5.05%) /	
		PSEG (5.97%) / RE (0.25%) /	
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (22.94%) / HTP***	
		(5.10%) / ECP** (0.08%) / PSEG	
		(69.17%) / RE (2.71%)	
	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades	Load-Ratio Share Allocation:	
		AEC (1.53%) / AEP (15.32%) /	
		APS (5.87%) / ATSI (7.76%) /	
		BGE (4.18%) / ComEd (12.38%)	
		/ ConEd (0.57%) / Dayton	
		(2.01%) / DEOK (3.21%) / DL	
		(1.69%) / DPL (2.43%) /	
		Dominion (12.42%) / EKPC	
b2436.90		(2.15%) / HTP*** (0.20%) /	
		JCPL (3.54%) / ME (1.77%) /	
		NEPTUNE* (0.42%) / PECO	
		(5.18%) / PENELEC (1.92%) /	
		PEPCO (3.98%) / PPL (5.05%) /	
		PSEG (5.97%) / RE (0.25%) /	
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (100.00%)	

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100.00%) the 345 kV at Marion and any associated upgrades New Bergen 345/230 kV ConEd (91.84%) / HTP*** transformer and any (1.16%) / ECP** (3.56%) / PSEG b2437.10 associated substation (3.31%) / RE (0.13%) upgrades New Bergen 345/138 kV transformer #1 and any b2437.11 ConEd (100.00%) associated substation upgrades New Bergen 345/138 kV transformer #2 and any ConEd (81.64%) / HTP*** b2437.12 associated substation (18.36%) upgrades New Bayway 345/138 kV transformer #1 and any b2437.20 ConEd (100.00%) associated substation upgrades New Bayway 345/138 kV transformer #2 and any b2437.21 ConEd (100.00%) associated substation upgrades New Linden 345/230 kV ConEd (86.94%) / HTP*** transformer and any b2437.30 (11.36%) / ECP** (1.70%) associated substation upgrades New Linden 230/138 kV ConEd (15.49%) / HTP*** transformer and any (3.67%) / ECP** (15.51%) / b2437.31 associated substation PSEG (62.86%) / RE (2.47%) upgrades Install two reactors at b2438 PSEG (100.00%) Tosco 230 kV Replace the Tosco 138kV breaker 'CB1/2 (CBT)' b2439 PSEG (100.00%) with 63kA Rebuild Athenia 138 kV to b2474 PSEG (100%) 80kA

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Version: 3.3.0

Effective Date: January 1, 2016

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tr	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new ConEd (66.90%) / ECP b2276 230 kV bay at Sewaren (33.10%) 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV ConEd (66.90%) / ECP b2276.1 circuits including (33.10%)Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to ConEd (66.90%) / ECP b2276.2 accommodate the two (33.10%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield. Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
b2421.2	Install a second four (4) breaker 69kV ring bus at Bridgewater Switching Station	PSEG (100%)
b2436.11	Convert the Bergen - Homestead "F" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2436.12	Convert the Bergen - North Bergen "E" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements A	Annual Revenue Requirement Responsible Customer(s)
•		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
	C (1 N 1 D	(1.72%) / DPL (2.53%) /
	Convert the North Bergen	Dominion (13.30%) / EKPC
b2436.13	- Homestead "E" 138 kV	(2.14%) / HTP*** (0.20%) /
02430.13	circuit to 345 kV and any associated substation	JCPL (3.57%) / ME (1.72%) /
		NEPTUNE* (0.41%) / PECO
	upgrades	(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (93.88%) / HTP***
		(0.68%) / ECP** (5.44%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Convert the Homestead -	Dominion (13.30%) / EKPC
1040544	Marion "E" 138 kV circuit	(2.14%) / HTP*** (0.20%) /
b2436.14	to 345 kV and any	JCPL (3.57%) / ME (1.72%) /
	associated substation	NEPTUNE* (0.41%) / PECO
	upgrades	(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (92.09%) / HTP*** (0.44%) / ECP** (5.33%) / PSEG
		(0.44%)/ECP*** (5.53%)/PSEG (2.06%)/RE (0.08%)
		(2.00%)/ KE (0.08%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Convert the Homestead -	Dominion (13.30%) / EKPC
	Marion "F" 138 kV circuit	(2.14%) / HTP*** (0.20%) /
b2436.15	to 345 kV and any	JCPL (3.57%) / ME (1.72%) /
	associated substation	NEPTUNE* (0.41%) / PECO
	upgrades	(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (92.45%) / HTP***
		(0.39%) / ECP** (5.35%) / PSEG
		(1.74%) / RE (0.07%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
	Convert the Marion - Bayonne "L" 138 kV	BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
		Dominion (13.30%) / EKPC
b2436.21	circuit to 345 kV and any	(2.14%) / HTP*** (0.20%) /
	associated substation	JCPL (3.57%) / ME (1.72%) /
	upgrades	NEPTUNE* (0.41%) / PECO
	10	(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (85.83%) / HTP***
		(13.21%) / ECP** (0.96%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
	Convert the Marion -		(1.72%) / DPL (2.53%) /
			Dominion (13.30%) / EKPC
b2436.22	Bayonne "C" 138 kV		(2.14%) / HTP*** (0.20%) /
02430.22	circuit to 345 kV and any associated substation		JCPL (3.57%) / ME (1.72%) /
			NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (85.83%) / HTP***
			(13.21%) / ECP** (0.96%)
			Load-Ratio Share Allocation:
	Convert the Bayonne - PVSC "I" 138 kV circuit		AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
			Dominion (13.30%) / EKPC
b2436.31			(2.14%) / HTP*** (0.20%) /
02430.31	to 345 kV and any associated substation		JCPL (3.57%) / ME (1.72%) /
			NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (86.70%) / HTP***
			(12.33%) / ECP** (0.97%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements A	Annual Revenue Requirer	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Construct a new Bayonne		Dominion (13.30%) / EKPC
b2436.32	- PVSC 345 kV circuit and		(2.14%) / HTP*** (0.20%) /
02430.32	any associated substation		JCPL (3.57%) / ME (1.72%) /
	upgrades		NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (86.67%) / HTP***
			(12.32%) / ECP** (1.01%)
			Load-Ratio Share Allocation:
	Convert the PVSC - North Ave "E" 138 kV circuit to		AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
			Dominion (13.30%) / EKPC
b2436.41			(2.14%) / HTP*** (0.20%) /
02430.41	345 kV and any associated		JCPL (3.57%) / ME (1.72%) /
	substation upgrades		NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
		[DFAX Allocation:
			ConEd (86.92%) / HTP***
			(12.36%) / ECP** (0.72%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Construct a new PVSC -Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / North Ave 345 kV circuit b2436.42 JCPL (3.57%) / ME (1.72%) / and any associated substation upgrades NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) **DFAX Allocation:** ConEd (86.93%) / HTP*** (12.36%) / ECP** (0.71%) Construct a new North ConEd (86.59%) / HTP*** Ave - Airport 345 kV b2436.50 circuit and any associated (12.31%) / ECP** (1.10%) substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (87.35%) / HTP*** b2436.60 to Bayway, convert it to (12.42%) / ECP** (0.23%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (87.43%) / HTP*** b2436.70 and any associated (12.43%) / ECP** (0.14%) substation upgrades

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements A	Annual Revenue Requirement Responsible Customer	r(s)
		Load-Ratio Share Allocation	n:
		AEC (1.57%) / AEP (15.18%))/
		APS (5.89%) / ATSI (7.59%)) /
		BGE (4.12%) / ComEd (12.38	%)
		/ ConEd (0.55%) / Dayton	
		(2.02%) / DEOK (3.15%) / D	L
	Relocate the overhead	(1.72%) / DPL (2.53%) /	
		Dominion (13.30%) / EKPC	1
	portion of Linden - North Ave "T" 138 kV circuit to	(2.14%) / HTP*** (0.20%)	/
b2436.81	Bayway, convert it to 345	JCPL (3.57%) / ME (1.72%)	/
	kV, and any associated	NEPTUNE* (0.41%) / PECC)
	substation upgrades	(4.97%) / PENELEC (1.86%)) /
	substation upgrades	PEPCO (3.85%) / PPL (4.95%))/
		PSEG (5.89%) / RE (0.24%)	/
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (22.94%) / HTP***	
		(5.10%) / ECP** (0.08%) / PS	EG
		(69.17%) / RE (2.71%)	
		Load-Ratio Share Allocation	
	Convert the Bayway - Linden "X" 138 kV circuit	AEC (1.57%) / AEP (15.18%)	
		APS (5.89%) / ATSI (7.59%)	
		BGE (4.12%) / ComEd (12.38	%)
		/ ConEd (0.55%) / Dayton	
		(2.02%) / DEOK (3.15%) / D	L
		(1.72%) / DPL (2.53%) /	
		Dominion (13.30%) / EKPC	•
		(2.14%) / HTP*** (0.20%)	/
b2436.82	to 345 kV and any	JCPL (3.57%) / ME (1.72%)	/
	associated substation	NEPTUNE* (0.41%) / PECO	C
	upgrades	(4.97%) / PENELEC (1.86%)) /
	apgrades	PEPCO (3.85%) / PPL (4.95%))/
		PSEG (5.89%) / RE (0.24%)	
		ECP** (0.20%)	
		DFAX Allocation:	
		ConEd (22.94%) / HTP***	
		(5.10%) / ECP** (0.08%) / PS	
		(69.17%) / RE (2.71%)	

^{*}Neptune Regional Transmission System, LLC

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^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements A	Annual Revenue Requirer	ment Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Convert the Bayway -		Dominion (13.30%) / EKPC
	Linden "Z" 138 kV circuit		(2.14%) / HTP*** (0.20%) /
b2436.83	to 345 kV and any		JCPL (3.57%) / ME (1.72%) /
	associated substation		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (22.94%) / HTP***
			(5.10%) / ECP** (0.08%) / PSEG
			(69.17%) / RE (2.71%)
			Load-Ratio Share Allocation:
	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated		AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
			Dominion (13.30%) / EKPC
b2436.90			(2.14%) / HTP*** (0.20%) /
			JCPL (3.57%) / ME (1.72%) /
	substation upgrades		NEPTUNE* (0.41%) / PECO
	10		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (100.00%)
		i	*

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100.00%) the 345 kV at Marion and any associated upgrades New Bergen 345/230 kV ConEd (91.84%) / HTP*** transformer and any (1.16%) / ECP** (3.56%) / PSEG b2437.10 associated substation (3.31%) / RE (0.13%) upgrades New Bergen 345/138 kV transformer #1 and any b2437.11 ConEd (100.00%) associated substation upgrades New Bergen 345/138 kV transformer #2 and any ConEd (81.64%) / HTP*** b2437.12 associated substation (18.36%) upgrades New Bayway 345/138 kV transformer #1 and any b2437.20 ConEd (100.00%) associated substation upgrades New Bayway 345/138 kV transformer #2 and any b2437.21 ConEd (100.00%) associated substation upgrades New Linden 345/230 kV transformer and any ConEd (86.94%) / HTP*** b2437.30 associated substation (11.36%) / ECP** (1.70%) upgrades New Linden 230/138 kV ConEd (15.49%) / HTP*** transformer and any (3.67%) / ECP** (15.51%) / b2437.31 associated substation PSEG (62.86%) / RE (2.47%) upgrades Install two reactors at b2438 PSEG (100.00%) Tosco 230 kV Replace the Tosco 138kV b2439 breaker 'CB1/2 (CBT)' PSEG (100.00%) with 63kA Rebuild Athenia 138 kV to b2474 PSEG (100%) 80kA

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Version: 7.2.2

Effective Date: February 16, 2016

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new ConEd (66.90%) / ECP b2276 230 kV bay at Sewaren (33.10%) 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV ConEd (66.90%) / ECP b2276.1 circuits including (33.10%)Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to ConEd (66.90%) / ECP b2276.2 accommodate the two (33.10%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield. Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
	Install a second four (4)	
b2421.2	breaker 69kV ring bus at Bridgewater Switching	PSEG (100%)
	Station	
b2436.11	Convert the Bergen - Homestead "F" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2436.12	Convert the Bergen - North Bergen "E" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
	Convert the North Bergen	(1.72%) / DPL (2.53%) /
	- Homestead "E" 138 kV	Dominion (13.30%) / EKPC
b2436.13	circuit to 345 kV and any	(2.14%) / HTP*** (0.20%) /
02430.13	associated substation	JCPL (3.57%) / ME (1.72%) /
	upgrades	NEPTUNE* (0.41%) / PECO
	upgrades	(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (93.88%) / HTP***
		(0.68%) / ECP** (5.44%)
	Convert the Homestead - Marion "E" 138 kV circuit	Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
		Dominion (13.30%) / EKPC
1 2 4 2 6 1 4		(2.14%) / HTP*** (0.20%) /
b2436.14	to 345 kV and any	JCPL (3.57%) / ME (1.72%) /
	associated substation	NEPTUNE* (0.41%) / PECO
	upgrades	(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (92.09%) / HTP***
		(0.44%) / ECP** (5.33%) / PSEG
		(2.06%) / RE (0.08%)

^{*}Neptune Regional Transmission System, LLC **East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Convert the Homestead -	Dominion (13.30%) / EKPC
	Marion "F" 138 kV circuit	(2.14%) / HTP*** (0.20%) /
b2436.15	to 345 kV and any	JCPL (3.57%) / ME (1.72%) /
	associated substation	NEPTUNE* (0.41%) / PECO
	upgrades	(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (92.45%) / HTP***
		(0.39%) / ECP** (5.35%) / PSEG
		(1.74%) / RE (0.07%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
	Convert the Marion - Bayonne "L" 138 kV	BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
		Dominion (13.30%) / EKPC
b2436.21	circuit to 345 kV and any	(2.14%) / HTP*** (0.20%) /
	associated substation	JCPL (3.57%) / ME (1.72%) /
	upgrades	NEPTUNE* (0.41%) / PECO
	16	(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (85.83%) / HTP***
		(13.21%) / ECP** (0.96%)
		(13.21%) / LCF · · (0.90%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
	Convert the Marion -		(1.72%) / DPL (2.53%) /
	Bayonne "C" 138 kV		Dominion (13.30%) / EKPC
b2436.22	circuit to 345 kV and any		(2.14%) / HTP*** (0.20%) /
02430.22	associated substation		JCPL (3.57%) / ME (1.72%) /
	upgrades		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (85.83%) / HTP***
			(13.21%) / ECP** (0.96%)
			Load-Ratio Share Allocation:
	Convert the Bayonne - PVSC "I" 138 kV circuit to 345 kV and any		AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
			Dominion (13.30%) / EKPC
b2436.31			(2.14%) / HTP*** (0.20%) /
02430.31	associated substation		JCPL (3.57%) / ME (1.72%) /
	upgrades		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (86.70%) / HTP***
			(12.33%) / ECP** (0.97%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements A	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Construct a new Bayonne	Dominion (13.30%) / EKPC
b2436.32	- PVSC 345 kV circuit and	(2.14%) / HTP*** (0.20%) /
02430.32	any associated substation	JCPL (3.57%) / ME (1.72%) /
	upgrades	NEPTUNE* (0.41%) / PECO
		(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (86.67%) / HTP***
		(12.32%) / ECP** (1.01%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Convert the PVSC - North	Dominion (13.30%) / EKPC
b2436.41	Ave "E" 138 kV circuit to	(2.14%) / HTP*** (0.20%) /
02430.41	345 kV and any associated	JCPL (3.57%) / ME (1.72%) /
	substation upgrades	NEPTUNE* (0.41%) / PECO
		(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (86.92%) / HTP***
		(12.36%) / ECP** (0.72%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Construct a new PVSC -Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / North Ave 345 kV circuit b2436.42 JCPL (3.57%) / ME (1.72%) / and any associated substation upgrades NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) **DFAX Allocation:** ConEd (86.93%) / HTP*** (12.36%) / ECP** (0.71%) Construct a new North ConEd (86.59%) / HTP*** Ave - Airport 345 kV b2436.50 circuit and any associated (12.31%) / ECP** (1.10%) substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (87.35%) / HTP*** b2436.60 to Bayway, convert it to (12.42%) / ECP** (0.23%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (87.43%) / HTP*** b2436.70 and any associated (12.43%) / ECP** (0.14%) substation upgrades

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^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements A	Annual Revenue Requirement Respon	sible Customer(s)
		Load-Ratio Sha	re Allocation:
		AEC (1.57%) / A	AEP (15.18%) /
		APS (5.89%) / A	ATSI (7.59%) /
		BGE (4.12%) / C	omEd (12.38%)
		/ ConEd (0.55	%) / Dayton
		(2.02%) / DEOF	X (3.15%) / DL
	Delegate the second and	(1.72%) / DP	L (2.53%)/
	Relocate the overhead	Dominion (13.	30%) / EKPC
	portion of Linden - North	(2.14%) / HTP	*** (0.20%) /
b2436.81	Ave "T" 138 kV circuit to	JCPL (3.57%) /	ME (1.72%)/
	Bayway, convert it to 345	NEPTUNE* (0	.41%) / PECO
	kV, and any associated	(4.97%) / PENE	LEC (1.86%) /
	substation upgrades	PEPCO (3.85%)	/ PPL (4.95%) /
		PSEG (5.89%)	/ RE (0.24%) /
		ECP** (0.20%)
		DFAX All	ocation:
		ConEd (22.94)	%) / HTP***
		(5.10%) / ECP**	(0.08%) / PSEG
		(69.17%) / F	EE (2.71%)
		Load-Ratio Sha	re Allocation:
	Convert the Bayway -	AEC (1.57%) / A	AEP (15.18%) /
		APS (5.89%) / A	ATSI (7.59%) /
		BGE (4.12%) / C	omEd (12.38%)
		/ ConEd (0.55	%) / Dayton
		(2.02%) / DEOF	X (3.15%) / DL
		(1.72%) / DP	L (2.53%)/
		Dominion (13.)	30%) / EKPC
	Linden "X" 138 kV circuit	(2.14%) / HTP	*** (0.20%) /
b2436.82	to 345 kV and any	JCPL (3.57%) /	ME (1.72%)/
	associated substation	NEPTUNE* (0	.41%) / PECO
	upgrades	(4.97%) / PENE	LEC (1.86%)/
		PEPCO (3.85%)	/ PPL (4.95%) /
		PSEG (5.89%)	/ RE (0.24%) /
		ECP** (0.20%)
		DFAX All	ocation:
		ConEd (22.94)	%) / HTP***
		(5.10%) / ECP**	(0.08%) / PSEG
		(69.17%) / F	RE (2.71%)

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Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DDPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / DEOK (3.15%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PEG (5.89%) / RE (2.24%) / FECP** (0.20%) DFAX Allocation: ConEd (22.94%) / APS (5.89%) / RE (2.71%) ConEd (1.25%) / Dominion (13.30%) / EKPC (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PECP** (0.20%) DFAX Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.33%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / DD minion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / DEOK (3.15%) / DE	Required Tra	ansmission Enhancements A	Annual Revenue Requirer	ment Responsible Customer(s)
APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)				Load-Ratio Share Allocation:
BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP*** (0.20%) / DFAX Allocation: Relocate Farragut - Hudson "B" and "C" 345 kV and any associated substation upgrades Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades BGE (4.12%) / ComEd (12.38%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PEPCO (3.				AEC (1.57%) / AEP (15.18%) /
Convert the Bayway - Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades DFAX Allocation: Convert (0.20%) / DEOK (3.15%) / DL (1.72%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE** (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP*** (0.20%) DFAX Allocation: ConEd (22.94%) / HTP**** (5.10%) / ECP*** (0.89%) / PSEG (69.17%) / RE (2.71%) Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATS (7.59%) / BGE (4.12%) / ComEd (12.38%) / Coned (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.33%) / Dominion (13.30%) / EKPC (2.14%) / HTP**** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE** (0.41%) / PECO (4.97%) / PENELC (1.86%) / PEPCO (3.85%) / PL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP*** (0.20%) DFAX Allocation: DFAX Allo				APS (5.89%) / ATSI (7.59%) /
Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 138 kV circuits to Marion 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 345 kV and any associated substation upgrades Convert the Convert th				BGE (4.12%) / ComEd (12.38%)
Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV circuits to Marion 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "Z" 130% / EKPC (2.14%) / HTP*** (0.20%) / BGE (4.12%) / ComEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PEPCO (3.85%) / PPL (4.95%) / PEPCO (3.85%) / PPL (4.95%) / PEPCO (3.85%) / PRE (0.24%) / ECP** (0.20%) DFAX Allocation:				/ ConEd (0.55%) / Dayton
Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation: Coned (22.94%) / HTP*** (5.10%) / ECP** (0.08%) / PSEG (69.17%) / RE (2.71%) Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:				(2.02%) / DEOK (3.15%) / DL
Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades Linden "Z" 138 kV circuit to 145 kV and any associated substation upgrades Linden "Z" 138 kV circuit to 145 kV circuits to Marion 345 kV and any associated substation upgrades Linden "Z" 138 kV circuit to 145 kV circuits to Marion 345 kV and any associated substation upgrades Linden "Z" 138 kV circuit to 145 kV circuits to Marion 345 kV and any associated substation upgrades Linden "Z" 138 kV circuit to 145 kV circuits to Marion 345 kV and any associated substation upgrades Linden "Z" 138 kV circuit to 145 kV circuits to Marion 345 kV and any associated substation upgrades Linden "Z" 138 kV circuit to 145 kV circuits to Marion 345 circuit at a circuit and a ci				(1.72%) / DPL (2.53%) /
b2436.83 to 345 kV and any associated substation upgrades				Dominion (13.30%) / EKPC
Associated substation upgrades NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)		Linden "Z" 138 kV circuit		(2.14%) / HTP*** (0.20%) /
upgrades	b2436.83	to 345 kV and any		
PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation: ConEd (22.94%) / HTP*** (5.10%) / ECP** (0.08%) / PSEG (69.17%) / RE (2.71%) Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)		associated substation		` /
PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)		upgrades		` ' '
ECP** (0.20%) DFAX Allocation: ConEd (22.94%) / HTP*** (5.10%) / ECP** (0.08%) / PSEG (69.17%) / RE (2.71%) Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / KV circuits to Marion 345 kV and any associated substation upgrades Substation upgrades ECP** (0.20%) / PSEG (5.89%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:				` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
DFAX Allocation: ConEd (22.94%) / HTP*** (5.10%) / ECP** (0.08%) / PSEG (69.17%) / RE (2.71%) Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / Standard Substation upgrades UPT (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:				
ConEd (22.94%) / HTP*** (5.10%) / ECP** (0.08%) / PSEG (69.17%) / RE (2.71%) Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades State of the property of the prop				` ′
(5.10%) / ECP** (0.08%) / PSEG (69.17%) / RE (2.71%)				
Coad-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) Coned (0.55%) / Dayton Coned (0.55%) / Deok (3.15%) / DL Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades Substation upgrades Coned (0.55%) / PEPCO (3.85%) / PEPCO (3.85%) / PEPCO (3.85%) / PEPCO (3.85%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PECO (4.95%) / PEPCO (3.85%) / PECO (3.24%) / ECP** (0.20%) DFAX Allocation:				` ,
Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:				
AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)				` ' ` ` '
APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)				
BGE (4.12%) / ComEd (12.38%)				, , , , , , , , , , , , , , , , , , , ,
ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / Section upgrades DFAX Allocation: DFAX Allocation: DFAX Allocation:		Relocate Farragut -		
Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:				` '
Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades Relocate Farragut - Hudson "B" and "C" 345 b2436.90 KV circuits to Marion 345 kV and any associated substation upgrades Relocate Farragut - Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:				•
b2436.90 Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades b2436.90 EXPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:				` ' '
b2436.90 kV circuits to Marion 345 kV and any associated substation upgrades (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:				` ' ' ' ' '
kV and any associated substation upgrades JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:		Hudson "B" and "C" 345		· · · · · · · · · · · · · · · · · · ·
NEPTUNE* (0.41%) / PECO	b2436.90	kV circuits to Marion 345		` ' '
(4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:		kV and any associated		
PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:		substation upgrades		` /
PSEG (5.89%) / RE (0.24%) / ECP** (0.20%) DFAX Allocation:				` '
ECP** (0.20%) DFAX Allocation:				
DFAX Allocation:				
				ECP** (0.20%)
ConEd (100.00%)				DFAX Allocation:
				ConEd (100.00%)

^{*}Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

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Aquiltu 11a		Annual Revenue Requirement Responsible Customer(s)
b2436.91	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated upgrades	PSEG (100.00%)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades	ConEd (91.84%) / HTP*** (1.16%) / ECP** (3.56%) / PSEC (3.31%) / RE (0.13%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades	ConEd (100.00%)
b2437.12	New Bergen 345/138 kV transformer #2 and any associated substation upgrades	ConEd (81.64%) / HTP*** (18.36%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades	ConEd (100.00%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades	ConEd (100.00%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades	ConEd (86.94%) / HTP*** (11.36%) / ECP** (1.70%)
b2437.31	New Linden 230/138 kV transformer and any associated substation upgrades	ConEd (15.49%) / HTP*** (3.67%) / ECP** (15.51%) / PSEG (62.86%) / RE (2.47%)
b2438	Install two reactors at Tosco 230 kV	PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA	PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA	PSEG (100%)

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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

Version: 7.4.0

Effective Date: April 16, 2016

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new ConEd (66.90%) / ECP b2276 230 kV bay at Sewaren (33.10%) 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV ConEd (66.90%) / ECP b2276.1 circuits including (33.10%) Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to ConEd (66.90%) / ECP b2276.2 accommodate the two (33.10%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield. Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Tra	ansmission Enhancements	Annual Revenue Require	ment Responsible Customer(s)
b2421.2	Install a second four (4) breaker 69kV ring bus at Bridgewater Switching Station		PSEG (100%)
b2436.11	Convert the Bergen - Homestead "F" 138 kV circuit to 345 kV and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2436.12	Convert the Bergen - North Bergen "E" 138 kV circuit to 345 kV and any associated substation upgrades		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements A	Annual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
	Convert the North Bergen		(1.72%) / DPL (2.53%) /
	- Homestead "E" 138 kV		Dominion (13.30%) / EKPC
b2436.13	circuit to 345 kV and any		(2.14%) / HTP*** (0.20%) /
02430.13	associated substation		JCPL (3.57%) / ME (1.72%) /
	upgrades		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (93.88%) / HTP***
			(0.68%) / ECP** (5.44%)
			Load-Ratio Share Allocation:
	Convert the Homestead - Marion "E" 138 kV circuit		AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
			Dominion (13.30%) / EKPC
			(2.14%) / HTP*** (0.20%) /
b2436.14	to 345 kV and any		JCPL (3.57%) / ME (1.72%) /
	associated substation		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
		_	ECP** (0.20%)
			DFAX Allocation:
			ConEd (92.09%) / HTP***
			(0.44%) / ECP** (5.33%) / PSEG
			(2.06%) / RE (0.08%)

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Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Convert the Homestead -	Dominion (13.30%) / EKPC
	Marion "F" 138 kV circuit	(2.14%) / HTP*** (0.20%) /
b2436.15	to 345 kV and any	JCPL (3.57%) / ME (1.72%) /
	associated substation	NEPTUNE* (0.41%) / PECO
	upgrades	(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (92.45%) / HTP***
		(0.39%) / ECP** (5.35%) / PSEG
		(1.74%) / RE (0.07%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
	Convert the Marion -	APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Bayonne "L" 138 kV	Dominion (13.30%) / EKPC
b2436.21	circuit to 345 kV and any	(2.14%) / HTP*** (0.20%) /
	associated substation	JCPL (3.57%) / ME (1.72%) /
	upgrades	NEPTUNE* (0.41%) / PECO
	10	(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (85.83%) / HTP***
		(13.21%) / ECP** (0.96%)

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^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
	Convert the Marion -		(1.72%) / DPL (2.53%) /
	Bayonne "C" 138 kV		Dominion (13.30%) / EKPC
b2436.22	circuit to 345 kV and any		(2.14%) / HTP*** (0.20%) /
02430.22	associated substation		JCPL (3.57%) / ME (1.72%) /
	upgrades		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (85.83%) / HTP***
			(13.21%) / ECP** (0.96%)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
	Convert the Bayonne -		(1.72%) / DPL (2.53%) /
	PVSC "I" 138 kV circuit		Dominion (13.30%) / EKPC
b2436.31	to 345 kV and any		(2.14%) / HTP*** (0.20%) /
02430.31	associated substation		JCPL (3.57%) / ME (1.72%) /
	upgrades		NEPTUNE* (0.41%) / PECO
	upgrades		(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (86.70%) / HTP***
			(12.33%) / ECP** (0.97%)

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Required Tra	ansmission Enhancements A	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Construct a new Bayonne	Dominion (13.30%) / EKPC
b2436.32	- PVSC 345 kV circuit and	(2.14%) / HTP*** (0.20%) /
02430.32	any associated substation	JCPL (3.57%) / ME (1.72%) /
	upgrades	NEPTUNE* (0.41%) / PECO
		(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (86.67%) / HTP***
		(12.32%) / ECP** (1.01%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Convert the PVSC - North	Dominion (13.30%) / EKPC
b2436.41	Ave "E" 138 kV circuit to	(2.14%) / HTP*** (0.20%) /
02430.41	345 kV and any associated	JCPL (3.57%) / ME (1.72%) /
	substation upgrades	NEPTUNE* (0.41%) / PECO
		(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		ConEd (86.92%) / HTP***
		(12.36%) / ECP** (0.72%)

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^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Require	1
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
	Construct a new PVSC -		Dominion (13.30%) / EKPC
b2436.42	North Ave 345 kV circuit		(2.14%) / HTP*** (0.20%) /
02430.42	and any associated		JCPL (3.57%) / ME (1.72%) /
	substation upgrades		NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%) /
			PSEG (5.89%) / RE (0.24%) /
			ECP** (0.20%)
			DFAX Allocation:
			ConEd (86.93%) / HTP***
			(12.36%) / ECP** (0.71%)
	Construct a new North		
b2436.50	Ave - Airport 345 kV		ConEd (86.59%) / HTP***
02430.30	circuit and any associated		(12.31%) / ECP** (1.10%)
	substation upgrades		
	Relocate the underground		
	portion of North Ave -		
	Linden "T" 138 kV circuit		ConEd (87.35%) / HTP***
b2436.60	to Bayway, convert it to		(12.42%) / ECP** (0.23%)
	345 kV, and any		(12.42%) / ECI (0.23%)
	associated substation		
	upgrades		
	Construct a new Airport -		
b2436.70	Bayway 345 kV circuit		ConEd (87.43%) / HTP***
02430.70	and any associated		(12.43%) / ECP** (0.14%)
	substation upgrades		

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**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements A	nts Annual Revenue Requirement Responsible Customer(s)		
		Load-Ratio Share Allocation	1:	
		AEC (1.57%) / AEP (15.18%) /		
		APS (5.89%) / ATSI (7.59%)	/	
	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades	BGE (4.12%) / ComEd (12.389)	%)	
		/ ConEd (0.55%) / Dayton		
		(2.02%) / DEOK (3.15%) / DI	L	
		(1.72%) / DPL (2.53%) /		
		Dominion (13.30%) / EKPC		
		(2.14%) / HTP*** (0.20%) /	'	
b2436.81		JCPL (3.57%) / ME (1.72%)	/	
		NEPTUNE* (0.41%) / PECC)	
		(4.97%) / PENELEC (1.86%)	/	
		PEPCO (3.85%) / PPL (4.95%))/	
		PSEG (5.89%) / RE (0.24%)	/	
		ECP** (0.20%)		
		DFAX Allocation:		
		ConEd (22.94%) / HTP***		
		(5.10%) / ECP** (0.08%) / PSI	$\Xi \mathbf{G}$	
		(69.17%) / RE (2.71%)		
		Load-Ratio Share Allocation		
		AEC (1.57%) / AEP (15.18%)		
		APS (5.89%) / ATSI (7.59%)		
		BGE (4.12%) / ComEd (12.389)	%)	
		/ ConEd (0.55%) / Dayton		
		(2.02%) / DEOK (3.15%) / DI	Ĺ	
	Convert the Bayway - Linden "X" 138 kV circuit to 345 kV and any associated substation upgrades	(1.72%) / DPL (2.53%) /		
		Dominion (13.30%) / EKPC		
		(2.14%) / HTP*** (0.20%) /	*	
b2436.82		JCPL (3.57%) / ME (1.72%)	/	
		NEPTUNE* (0.41%) / PECC)	
		(4.97%) / PENELEC (1.86%)	/	
		PEPCO (3.85%) / PPL (4.95%))/	
		PSEG (5.89%) / RE (0.24%)		
		ECP** (0.20%)		
		DFAX Allocation:		
		ConEd (22.94%) / HTP***		
		(5.10%) / ECP** (0.08%) / PSI	ΞG	
		(69.17%) / RE (2.71%)		

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^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements A	ancements Annual Revenue Requirement Responsible Customer(s)		
			Load-Ratio Share Allocation:	
			AEC (1.57%) / AEP (15.18%) /	
			APS (5.89%) / ATSI (7.59%) /	
			BGE (4.12%) / ComEd (12.38%)	
			/ ConEd (0.55%) / Dayton	
	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades		(2.02%) / DEOK (3.15%) / DL	
			(1.72%) / DPL (2.53%) /	
			Dominion (13.30%) / EKPC	
			(2.14%) / HTP*** (0.20%) /	
b2436.83			JCPL (3.57%) / ME (1.72%) /	
			NEPTUNE* (0.41%) / PECO	
			(4.97%) / PENELEC (1.86%) /	
			PEPCO (3.85%) / PPL (4.95%) /	
			PSEG (5.89%) / RE (0.24%) /	
		(ECP** (0.20%)	
			DFAX Allocation:	
			ConEd (22.94%) / HTP***	
			(5.10%) / ECP** (0.08%) / PSEG	
			(69.17%) / RE (2.71%)	
			Load-Ratio Share Allocation:	
	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades		AEC (1.57%) / AEP (15.18%) /	
			APS (5.89%) / ATSI (7.59%) /	
			BGE (4.12%) / ComEd (12.38%)	
			/ ConEd (0.55%) / Dayton	
			(2.02%) / DEOK (3.15%) / DL	
			(1.72%) / DPL (2.53%) /	
			Dominion (13.30%) / EKPC	
b2436.90			(2.14%) / HTP*** (0.20%) /	
02130.50			JCPL (3.57%) / ME (1.72%) /	
			NEPTUNE* (0.41%) / PECO	
			(4.97%) / PENELEC (1.86%) /	
			PEPCO (3.85%) / PPL (4.95%) /	
			PSEG (5.89%) / RE (0.24%) /	
			ECP** (0.20%)	
			DFAX Allocation:	
			ConEd (100.00%)	
			(/	

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**East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

required 11a		Annual Revenue Requirement Responsible Customer(s)
b2436.91	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated upgrades	PSEG (100.00%)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades	ConEd (91.84%) / HTP*** (1.16%) / ECP** (3.56%) / PSEC (3.31%) / RE (0.13%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades	ConEd (100.00%)
b2437.12	New Bergen 345/138 kV transformer #2 and any associated substation upgrades	ConEd (81.64%) / HTP*** (18.36%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades	ConEd (100.00%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades	ConEd (100.00%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades	ConEd (86.94%) / HTP*** (11.36%) / ECP** (1.70%)
b2437.31	New Linden 230/138 kV transformer and any associated substation upgrades	ConEd (15.49%) / HTP*** (3.67%) / ECP** (15.51%) / PSEG (62.86%) / RE (2.47%)
b2438	Install two reactors at Tosco 230 kV	PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA	PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA	PSEG (100%)

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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 113	Required Transmission Ennancements Annual Revenue Requirement Responsible Customer(s)				
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)		
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)		
b2702	Install a 350 MVAR reactor at Roseland 500 kV		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)		
b2703	Install a 100 MVAR reactor at Bergen 230 kV		PSEG (100%) PSEG (100%)		
b2704	Install a 150 MVAR reactor at Essex 230 kV		PSEG (100%)		
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV		PSEG (100%)		
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV		PSEG (100%)		
b2707	Install a 100 MVAR reactor at Bayonne 345 kV		PSEG (100%)		

Version: 8.4.0

Effective Date: April 25, 2016

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

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The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new ConEd (66.90%) / ECP b2276 230 kV bay at Sewaren (33.10%) 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV ConEd (66.90%) / ECP b2276.1 circuits including (33.10%) Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to ConEd (66.90%) / ECP b2276.2 accommodate the two (33.10%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield. Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / Dominion (13.30%) / Convert the Bergen – DPL (2.53%) / ECP** (0.20%) / Marion 138 kV path to EKPC (2.14%) / HTP*** (0.20%) b2436.10 double circuit 345 kV and / JCPL (3.57%) / ME (1.72%) / associated substation NEPTUNE* (0.41%) / PECO upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (93.00%) / ECP (5.76%) / HTP (0.24%) / PSEG (0.96%) / RE (0.04%) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Convert the Marion -Dominion (13.30%) / ECP** Bayonne "L" 138 kV (0.20%) / EKPC (2.14%) / b2436.21 circuit to 345 kV and any HTP*** (0.20 %) / JCPL (3.57%) associated substation / ME (1.72%) / NEPTUNE* upgrades (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (87.68%) / HTP*** (11.72%) / ECP** (0.60 %)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Ttoquirea TT	HISTHISSION EMILIANCEMENTS AND	Tuda Revenue Requirement - Responsible Customer(s)
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.07%) / ECP (0.30%) / HTP (13.63%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.05%) / ECP (0.33%) / HTP (13.62%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North ConEd (85.84%) / HTP*** Ave - Airport 345 kV b2436.50 circuit and any associated (13.60%) / ECP** (0.56%) substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (86.19%) / HTP*** b2436.60 to Bayway, convert it to (13.65%) / ECP** (0.16 %) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (86.26%) / HTP*** b2436.70 and any associated (13.66%) / ECP** (0.08 %) substation upgrades **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Relocate the overhead Dominion (13.30%) / ECP** portion of Linden - North (0.20%) / EKPC (2.14%) / Ave "T" 138 kV circuit to HTP*** (0.20 %) / JCPL (3.57%) b2436.81 Bayway, convert it to 345 / ME (1.72%) / NEPTUNE* kV, and any associated (0.41%) / PECO (4.97%) / substation upgrades PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (12.79%) / HTP*** (6.60%) / ECP** (0.02%) / PSEG (77.53%) / RE (3.06%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Convert the Bayway -	Dominion (13.30%) / ECP**
	Linden "Z" 138 kV circuit	(0.20%) / EKPC (2.14%) /
b2436.83	to 345 kV and any	HTP*** (0.20 %) / JCPL (3.57%)
	associated substation	/ ME (1.72%) / NEPTUNE*
	upgrades	(0.41%) / PECO (4.97%) /
		PENELEC (1.86%) / PEPCO
		(3.85%) / PPL (4.95%) / PSEG
		(5.89%) / RE (0.24%)
		DFAX Allocation:
		ConEd (12.80%) / HTP***
		(6.60%) / ECP** (0.02%) / PSEG
		(77.52%) / RE (3.06%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
	Convert the Bayway – Linden "W" 138 kV circuit to 345 kV and any associated substation	/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
		Dominion (13.30%) / ECP**
b2436.84		(0.20%) / EKPC (2.14%) /
02 130.01		HTP*** (0.20 %) / JCPL (3.57%)
	upgrades	/ ME (1.72%) / NEPTUNE*
	upgrades	(0.41%) / PECO (4.97%) /
		PENELEC (1.86%) / PEPCO
		(3.85%) / PPL (4.95%) / PSEG
		(5.89%) / RE (0.24%)
		DFAX Allocation:
		ConEd (65.97%) / ECP (0.02%) /
		HTP (34.01%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
	Convert the Bayway –	(1.72%) / DPL (2.53%) /
	Linden "M" 138 kV	Dominion (13.30%) / ECP**
b2436.85	circuit to 345 kV and any	(0.20%) / EKPC (2.14%) /
02430.03	associated substation	HTP*** (0.20 %) / JCPL (3.57%)
	upgrades	/ ME (1.72%) / NEPTUNE*
	upgrades	(0.41%) / PECO (4.97%) /
		PENELEC (1.86%) / PEPCO
		(3.85%) / PPL (4.95%) / PSEG
		(5.89%) / RE (0.24%)
		DFAX Allocation:
		ConEd (65.97%) / ECP (0.02%) /
		HTP (34.01%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades	APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
		Dominion (13.30%) / ECP**
b2436.90		(0.20%) / EKPC (2.14%) /
		HTP*** (0.20 %) / JCPL (3.57%)
		/ ME (1.72%) / NEPTUNE*
		(0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEDCO
		PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG
		` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
		(5.89%) / RE (0.24%) DFAX Allocation:
		ConEd (99.16%) / HTP (0.05%) /
		PSEG (0.76%) / RE (0.03%)
	Dalacata da Hadaaa 2	1 SEG (0.70%) / RE (0.05%)
	Relocate the Hudson 2	
b2436.91	generation to inject into the 345 kV at Marion and	PSEG (100%)
	any associated upgrades	

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b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades	ConEd (89.34%) / HTP*** (1.07%) / ECP** (5.58%) / PSEG (3.86%) / RE (0.15%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades	ConEd (95.12%) / ECP (4.88%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades	ConEd (0.32%) / ECP (0.03%) / HTP (3.27%) / PSEG (92.72%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades	ConEd (0.15%) / ECP (0.02%) / HTP (2.91%) / PSEG (93.24%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades	ConEd (19.62%) / HTP*** (8.43%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (68.93%) / RE (2.72%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades	ConEd (100%)
b2438	Install two reactors at Tosco 230 kV	PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA	PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA	PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station	PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

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rtoquirou III	required Transmission Emilancements Annual Revenue Requirement Responsible Customer(s)			
		Load-Ratio Share Allocation:		
		AEC (1.57%) / AEP (15.18%) /		
		APS (5.89%) / ATSI (7.59%) /		
		BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) /		
		DEOK (3.15%) / DL (1.72%) /		
		DPL (2.53%) / Dominion		
	Install an SVC at New	(13.30%) / ECP** (0.20%) /		
b2633.3	Freedom 500 kV	EKPC (2.14%) / HTP*** (0.20 %)		
02033.3	substation	/ JCPL (3.57%) / ME (1.72%) /		
		NEPTUNE* (0.41%) / PECO		
		(4.97%) / PENELEC (1.86%) /		
		PEPCO (3.85%) / PPL (4.95%) /		
		PSEG (5.89%) / RE (0.24%)		
		DFAX Allocation:		
		AEC (0.01%) / DPL (99.98%) /		
		JCPL (0.01%)		
	Add a new 500 kV bay at	AEC (0.01%) / DPL (99.98%) /		
b2633.4	Salem (Expansion of	JCPL (0.01%)		
	Salem substation)	` '		
b2633.5	Add a new 500/230 kV	AEC (0.01%) / DPL (99.98%) /		
02033.3	autotransformer at Salem	JCPL (0.01%)		
		Load-Ratio Share Allocation:		
		AEC (1.57%) / AEP (15.18%) /		
		APS (5.89%) / ATSI (7.59%) /		
		BGE (4.12%) / ComEd (12.38%) /		
	Implement high speed	ConEd (0.55%) / Dayton (2.02%) /		
	relaying utilizing OPGW	DEOK (3.15%) / DL (1.72%) /		
	on Salem – Orchard 500	DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) /		
b2633.8	kV, Hope Creek – New Freedom 500 kV, New	EKPC (2.14%) / HTP*** (0.20%)		
02033.8	Freedom - Salem 500 kV,	/ JCPL (3.57%) / ME (1.72%) /		
	Hope Creek – Salem 500	NEPTUNE* (0.41%) / PECO		
	kV, and New Freedom –	(4.97%) / PENELEC (1.86%) /		
	Orchard 500 kV lines	PEPCO (3.85%) / PPL (4.95%) /		
		PSEG (5.89%) / RE (0.24%)		
		DFAX Allocation:		
		AEC (0.01%) / DPL (99.98%) /		
		JCPL (0.01%)		

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Tioquired Tit		dai Revenue Requirement Responsible Customer(s)
	Implement changes to the	AEC (0.010/.) / DDI (00.080/.) /
b2633.91	tap settings for the two Salem units' step up	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
	transformers	JCFL (0.0170)
	Implement changes to the tap settings for the Hope	AEC (0.01%) / DPL (99.98%) /
b2633.92		
	Creek unit's step up transformers	JCPL (0.01%)
	transformers	Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Install a 350 MVAR reactor	Dominion (13.30%) / EKPC
b2702	at Roseland 500 kV	(2.14%) / HTP*** (0.20%) /
		JCPL (3.57%) / ME (1.72%) /
		NEPTUNE* (0.41%) / PECO
		(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%) /
		ECP** (0.20%)
		DFAX Allocation:
		PSEG (100%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor	PSEG (100%)
	at Essex 230 kV	
b2705	Install a 200 MVAR reactor	PSEG (100%)
02703	(variable) at Bergen 345 kV	F3EO (100%)
	Install a 200 MVAR reactor	
b2706	(variable) at Bayway	PSEG (100%)
	345 kV	
1.0505	Install a 100 MVAR reactor	PGPG (4000)
b2707	at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Version: 8.4.0

Effective Date: November 30, 2016

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tr	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new ConEd (66.90%) / ECP b2276 230 kV bay at Sewaren (33.10%) 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV ConEd (66.90%) / ECP b2276.1 circuits including (33.10%)Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to ConEd (66.90%) / ECP b2276.2 accommodate the two (33.10%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield. Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / Dominion (13.30%) / Convert the Bergen – DPL (2.53%) / ECP** (0.20%) / Marion 138 kV path to EKPC (2.14%) / HTP*** (0.20%) b2436.10 double circuit 345 kV and / JCPL (3.57%) / ME (1.72%) / associated substation NEPTUNE* (0.41%) / PECO upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (93.00%) / ECP (5.76%) / HTP (0.24%) / PSEG (0.96%) / RE (0.04%) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Convert the Marion -Dominion (13.30%) / ECP** Bayonne "L" 138 kV (0.20%) / EKPC (2.14%) / b2436.21 circuit to 345 kV and any HTP*** (0.20 %) / JCPL (3.57%) associated substation / ME (1.72%) / NEPTUNE* upgrades (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (87.68%) / HTP*** (11.72%) / ECP** (0.60 %)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required 11	Required Transmission Edinarcements - Annual Revenue Requirement - Responsible Customer(s)			
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)		
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.07%) / ECP (0.30%) / HTP (13.63%)		
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.05%) / ECP (0.33%) / HTP (13.62%)		

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North ConEd (85.84%) / HTP*** Ave - Airport 345 kV b2436.50 circuit and any associated (13.60%) / ECP** (0.56%) substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (86.19%) / HTP*** b2436.60 to Bayway, convert it to (13.65%) / ECP** (0.16 %) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (86.26%) / HTP*** b2436.70 and any associated (13.66%) / ECP** (0.08 %) substation upgrades **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Relocate the overhead Dominion (13.30%) / ECP** portion of Linden - North (0.20%) / EKPC (2.14%) / Ave "T" 138 kV circuit to HTP*** (0.20 %) / JCPL (3.57%) b2436.81 Bayway, convert it to 345 / ME (1.72%) / NEPTUNE* kV, and any associated (0.41%) / PECO (4.97%) / substation upgrades PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (12.79%) / HTP*** (6.60%) / ECP** (0.02%) / PSEG (77.53%) / RE (3.06%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Convert the Bayway -	Dominion (13.30%) / ECP**
	Linden "Z" 138 kV circuit	(0.20%) / EKPC (2.14%) /
b2436.83	to 345 kV and any	HTP*** (0.20 %) / JCPL (3.57%)
	associated substation	/ ME (1.72%) / NEPTUNE*
	upgrades	(0.41%) / PECO (4.97%) /
		PENELEC (1.86%) / PEPCO
		(3.85%) / PPL (4.95%) / PSEG
		(5.89%) / RE (0.24%)
		DFAX Allocation:
		ConEd (12.80%) / HTP***
		(6.60%) / ECP** (0.02%) / PSEG
		(77.52%) / RE (3.06%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
	Convert the Bayway – Linden "W" 138 kV	/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
		Dominion (13.30%) / ECP**
b2436.84	circuit to 345 kV and any	(0.20%) / EKPC (2.14%) /
02 130.01	associated substation	HTP*** (0.20 %) / JCPL (3.57%)
	upgrades	/ ME (1.72%) / NEPTUNE*
		(0.41%) / PECO (4.97%) /
		PENELEC (1.86%) / PEPCO
		(3.85%) / PPL (4.95%) / PSEG
		(5.89%) / RE (0.24%)
		DFAX Allocation:
		ConEd (65.97%) / ECP (0.02%) /
		HTP (34.01%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
	Consent the Dormer	(1.72%) / DPL (2.53%) /
	Convert the Bayway – Linden "M" 138 kV	Dominion (13.30%) / ECP**
b2436.85	circuit to 345 kV and any	(0.20%) / EKPC (2.14%) /
02430.83	associated substation	HTP*** (0.20 %) / JCPL (3.57%)
		/ ME (1.72%) / NEPTUNE*
	upgrades	(0.41%) / PECO (4.97%) /
		PENELEC (1.86%) / PEPCO
		(3.85%) / PPL (4.95%) / PSEG
		(5.89%) / RE (0.24%)
		DFAX Allocation:
		ConEd (65.97%) / ECP (0.02%) /
		HTP (34.01%)
		Load-Ratio Share Allocation:
	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades	AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
		Dominion (13.30%) / ECP**
b2436.90		(0.20%) / EKPC (2.14%) /
02 130.70		HTP*** (0.20 %) / JCPL (3.57%)
		/ ME (1.72%) / NEPTUNE*
		(0.41%) / PECO (4.97%) /
		PENELEC (1.86%) / PEPCO
		(3.85%) / PPL (4.95%) / PSEG
		(5.89%) / RE (0.24%)
		DFAX Allocation:
		ConEd (99.16%) / HTP (0.05%) /
		PSEG (0.76%) / RE (0.03%)
	Relocate the Hudson 2	
b2436.91	generation to inject into	PSEG (100%)
	the 345 kV at Marion and	1523 (10070)
	any associated upgrades	

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		dui revende requirement responsible customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades	ConEd (89.34%) / HTP*** (1.07%) / ECP** (5.58%) / PSEG (3.86%) / RE (0.15%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades	ConEd (95.12%) / ECP (4.88%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades	ConEd (0.32%) / ECP (0.03%) / HTP (3.27%) / PSEG (92.72%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades	ConEd (0.15%) / ECP (0.02%) / HTP (2.91%) / PSEG (93.24%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades	ConEd (19.62%) / HTP*** (8.43%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (68.93%) / RE (2.72%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades	ConEd (100%)
b2438	Install two reactors at Tosco 230 kV	PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA	PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA	PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station	PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station	PSEG (100%)

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required in		
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) /
		ConEd (0.55%) / Dayton (2.02%) /
		DEOK (3.15%) / DL (1.72%) /
		DPL (2.53%) / Dominion
	Install an SVC at New	(13.30%) / ECP** (0.20%) /
b2633.3	Freedom 500 kV	EKPC (2.14%) / HTP*** (0.20 %)
	substation	/ JCPL (3.57%) / ME (1.72%) /
		NEPTUNE* (0.41%) / PECO
		(4.97%) / PENELEC (1.86%) /
		PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%)
		DFAX Allocation:
		AEC (0.01%) / DPL (99.98%) /
	7001771	JCPL (0.01%)
1.0622.4	Add a new 500 kV bay at	AEC (0.01%) / DPL (99.98%) /
b2633.4	Salem (Expansion of	JCPL (0.01%)
	Salem substation) Add a new 500/230 kV	AEC (0.01%) / DPL (99.98%) /
b2633.5	autotransformer at Salem	JCPL (0.01%)
	autotransformer at Salem	Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%) /
	Implement high speed	ConEd (0.55%) / Dayton (2.02%) /
	relaying utilizing OPGW	DEOK (3.15%) / DL (1.72%) /
	on Salem – Orchard 500	DPL (2.53%) / Dominion
	kV, Hope Creek – New	(13.30%) / ECP** (0.20%) /
b2633.8	Freedom 500 kV, New	EKPC (2.14%) / HTP*** (0.20 %)
	Freedom - Salem 500 kV,	/ JCPL (3.57%) / ME (1.72%) /
	Hope Creek – Salem 500	NEPTUNE* (0.41%) / PECO
	kV, and New Freedom –	(4.97%) / PENELEC (1.86%) /
	Orchard 500 kV lines	PEPCO (3.85%) / PPL (4.95%) /
		PSEG (5.89%) / RE (0.24%)
		DFAX Allocation:
		AEC (0.01%) / DPL (99.98%) /
		JCPL (0.01%)

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Troquited Tro		dai Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)	PSEG (100%)

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Version: 9.3.0

Effective Date: January 1, 2017

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

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The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new ConEd (64.55%) / ECP b2276 230 kV bay at Sewaren (35.45%) 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV ConEd (64.55%) / ECP b2276.1 circuits including (35.45%) Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to ConEd (64.55%) / ECP b2276.2 accommodate the two (35.45%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield. Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

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Annual Revenue Requirement Required Transmission Enhancements Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL (1.76%) / Dominion (12.32%) / Convert the Bergen – DPL (2.60%) / ECP** (0.20%) / Marion 138 kV path to EKPC (1.82%) / HTP*** (0.20%) b2436.10 double circuit 345 kV and / JCPL (3.76%) / ME (1.86%) / associated substation NEPTUNE* (0.42%) / PECO upgrades (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** ConEd (84.22%) / ECP** (5.63%) / HTP*** (2.18%) / PSEG (7.66%) / RE (0.31%) **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL (1.76%) / Dominion (12.32%) / Convert the Marion -Bayonne "L" 138 kV DPL (2.60%) / ECP** (0.20%) / b2436.21 circuit to 345 kV and any EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.76%) / ME (1.86%) / associated substation NEPTUNE* (0.42%) / PECO upgrades (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** ConEd (87.68%) / HTP*** (11.72%) / ECP** (0.60 %)

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required Tre	required Hansinission Emancements Tunidal Revenue Requirement Responsible Customer(s)			
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%)		
		DFAX Allocation: ConEd (87.69%) / HTP*** (11.71%) / ECP** (0.60 %)		
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.07%) / ECP (0.30%) / HTP (13.63%)		
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.05%) / ECP (0.33%) / HTP (13.62%)		

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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North ConEd (85.84%) / HTP*** Ave - Airport 345 kV b2436.50 circuit and any associated (13.60%) / ECP** (0.56%) substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (86.19%) / HTP*** b2436.60 to Bayway, convert it to (13.65%) / ECP** (0.16 %) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (86.26%) / HTP*** b2436.70 and any associated (13.66%) / ECP** (0.08 %) substation upgrades **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL (1.76%) / Dominion (12.32%) / Relocate the overhead DPL (2.60%) / ECP** (0.20%) / portion of Linden - North EKPC (1.82%) / HTP*** (0.20%) Ave "T" 138 kV circuit to b2436.81 / JCPL (3.76%) / ME (1.86%) / Bayway, convert it to 345 kV, and any associated NEPTUNE* (0.42%) / PECO substation upgrades (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** ConEd (12.79%) / HTP*** (6.60%) / ECP** (0.02%) / PSEG (77.53%) / RE (3.06%)

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Required Tra	ansmission Enhancements A	Annual Revenue Requiren	<u> </u>
			Load-Ratio Share Allocation:
			AEC (1.69%) / AEP (14.17%) /
			APS (5.50%) / ATSI (8.04%) /
			BGE (4.16%) / ComEd (13.35%)
			/ ConEd (0.57%) / Dayton
			(2.11%) / DEOK (3.35%) / DL
	Convert the Payman		(1.76%) / Dominion (12.32%) /
	Convert the Bayway - Linden "Z" 138 kV circuit		DPL (2.60%) / ECP** (0.20%) /
b2436.83	to 345 kV and any		EKPC (1.82%) / HTP*** (0.20%)
02430.83	associated substation		/ JCPL (3.76%) / ME (1.86%) /
	upgrades		NEPTUNE* (0.42%) / PECO
	upgrades		(5.27%) / PENELEC (1.84%) /
			PEPCO (4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			ConEd (12.80%) / HTP***
			(6.60%) / ECP** (0.02%) / PSEG
			(77.52%) / RE (3.06%)
	Convert the Bayway – Linden "W" 138 kV circuit to 345 kV and any associated substation		Load-Ratio Share Allocation:
			AEC (1.69%) / AEP (14.17%) /
			APS (5.50%) / ATSI (8.04%) /
			BGE (4.16%) / ComEd (13.35%)
			/ ConEd (0.57%) / Dayton
			(2.11%) / DEOK (3.35%) / DL
			(1.76%) / Dominion (12.32%) /
			DPL (2.60%) / ECP** (0.20%) /
b2436.84			EKPC (1.82%) / HTP*** (0.20%)
			/ JCPL (3.76%) / ME (1.86%) /
	upgrades		NEPTUNE* (0.42%) / PECO
	upgrades		(5.27%) / PENELEC (1.84%) /
			PEPCO (4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			ConEd (65.97%) / ECP (0.02%) /
			, , , , , , , , , , , , , , , , , , , ,
			HTP (34.01%)

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Required Tra	ansmission Enhancements A	Annual Revenue Requirement Responsible Customer(s)
1		Load-Ratio Share Allocation:
		AEC (1.69%) / AEP (14.17%) /
		APS (5.50%) / ATSI (8.04%) /
		BGE (4.16%) / ComEd (13.35%)
		/ ConEd (0.57%) / Dayton
		(2.11%) / DEOK (3.35%) / DL
	Convert the Bayway –	(1.76%) / Dominion (12.32%) /
	Linden "M" 138 kV	DPL (2.60%) / ECP** (0.20%) /
b2436.85	circuit to 345 kV and any	EKPC (1.82%) / HTP*** (0.20%)
	associated substation	/ JCPL (3.76%) / ME (1.86%) /
	upgrades	NEPTUNE* (0.42%) / PECO
	218-1111	(5.27%) / PENELEC (1.84%) /
		PEPCO (4.15%) / PPL (4.43%) /
		PSEG (6.18%) / RE (0.25%)
		DFAX Allocation:
		ConEd (65.97%) / ECP (0.02%) /
		HTP (34.01%)
	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345	Load-Ratio Share Allocation:
		AEC (1.69%) / AEP (14.17%) /
		APS (5.50%) / ATSI (8.04%) /
		BGE (4.16%) / ComEd (13.35%)
		/ ConEd (0.57%) / Dayton
		(2.11%) / DEOK (3.35%) / DL
		(1.76%) / Dominion (12.32%) /
		DPL (2.60%) / ECP** (0.20%) /
b2436.90		EKPC (1.82%) / HTP*** (0.20%)
	kV and any associated	/ JCPL (3.76%) / ME (1.86%) /
	substation upgrades	NEPTUNE* (0.42%) / PECO
		(5.27%) / PENELEC (1.84%) /
		PEPCO (4.15%) / PPL (4.43%) /
		PSEG (6.18%) / RE (0.25%)
		DFAX Allocation:
		ConEd (99.16%) / HTP (0.05%) /
		PSEG (0.76%) / RE (0.03%)
	Relocate the Hudson 2	
1040505	generation to inject into	7777 (1991)
b2436.91	the 345 kV at Marion and	PSEG (100%)
	any associated upgrades	
	,	

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b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades	ConEd (86.53%) / HTP*** (1.99%) / ECP** (5.88%) / PSEG (5.38%) / RE (0.22%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades	ConEd (68.17%) / ECP** (4.26%) / HTP*** (27.57%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades	ConEd (0.32%) / ECP (0.03%) / HTP (3.27%) / PSEG (92.72%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades	ConEd (0.15%) / ECP (0.02%) / HTP (2.91%) / PSEG (93.24%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades	ConEd (19.62%) / HTP*** (8.43%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (68.93%) / RE (2.72%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades	ConEd (100%)
b2438	Install two reactors at Tosco 230 kV	PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA	PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA	PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station	PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station	PSEG (100%)

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		Load-Ratio Share Allocation:
		AEC (1.69%) / AEP (14.17%) /
		APS (5.50%) / ATSI (8.04%) /
		BGE (4.16%) / ComEd (13.35%) /
		ConEd (0.57%) / Dayton (2.11%) /
		DEOK (3.35%) / DL (1.76%) /
		Dominion (12.32%) / DPL
1.2.62.2	Install an SVC at New	(2.60%) / ECP** (0.20%) / EKPC
b2633.3	Freedom 500 kV	(1.82%) / HTP*** (0.20%) / JCPL
	substation	(3.76%) / ME (1.86%) /
		NEPTUNE* (0.42%) / PECO
		(5.27%) / PENELEC (1.84%) /
		PEPCO (4.15%) / PPL (4.43%) /
		PSEG (6.18%) / RE (0.25%)
		DFAX Allocation:
		AEC (0.01%) / DPL (99.98%) /
	7001771	JCPL (0.01%)
1.2.522.4	Add a new 500 kV bay at	AEC (0.01%) / DPL (99.98%) /
b2633.4	Salem (Expansion of	JCPL (0.01%)
	Salem substation)	<u> </u>
b2633.5	Add a new 500/230 kV	AEC (0.01%) / DPL (99.98%) /
02033.3	autotransformer at Salem	JCPL (0.01%)
		Load-Ratio Share Allocation:
		AEC (1.69%) / AEP (14.17%) /
		APS (5.50%) / ATSI (8.04%) /
		BGE (4.16%) / ComEd (13.35%) /
	Implement high speed	ConEd (0.57%) / Dayton (2.11%) /
	relaying utilizing OPGW	DEOK (3.35%) / DL (1.76%) /
	on Salem – Orchard 500	Dominion (12.32%) / DPL
	kV, Hope Creek – New	(2.60%) / ECP** (0.20%) / EKPC
b2633.8	Freedom 500 kV, New	(1.82%) / HTP*** (0.20%) / JCPL
	Freedom - Salem 500 kV,	(3.76%) / ME (1.86%) /
	Hope Creek – Salem 500	NEPTUNE* (0.42%) / PECO
	kV, and New Freedom –	(5.27%) / PENELEC (1.84%) /
	Orchard 500 kV lines	PEPCO (4.15%) / PPL (4.43%) /
		PSEG (6.18%) / RE (0.25%)
		DFAX Allocation:
		AEC (0.01%) / DPL (99.98%) /
		JCPL (0.01%)

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^{**}East Coast Power, L.L.C.

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required 110		dai Revenue Requirement - Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Version: 10.2.0

Effective Date: February 15, 2017

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new ConEd (64.55%) / ECP b2276 230 kV bay at Sewaren (35.45%) 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV ConEd (64.55%) / ECP b2276.1 circuits including (35.45%) Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to ConEd (64.55%) / ECP b2276.2 accommodate the two (35.45%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield. Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / Dominion (13.30%) / Convert the Bergen – DPL (2.53%) / ECP** (0.20%) / Marion 138 kV path to EKPC (2.14%) / HTP*** (0.20%) b2436.10 double circuit 345 kV and / JCPL (3.57%) / ME (1.72%) / associated substation NEPTUNE* (0.41%) / PECO upgrades (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (93.00%) / ECP (5.76%) / HTP (0.24%) / PSEG (0.96%) / RE (0.04%) **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Convert the Marion -Dominion (13.30%) / ECP** Bayonne "L" 138 kV (0.20%) / EKPC (2.14%) / b2436.21 circuit to 345 kV and any HTP*** (0.20 %) / JCPL (3.57%) associated substation / ME (1.72%) / NEPTUNE* upgrades (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (87.68%) / HTP*** (11.72%) / ECP** (0.60 %)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Ttoquirea 110		
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.07%) / ECP (0.30%) / HTP (13.63%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.05%) / ECP (0.33%) / HTP (13.62%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North ConEd (85.84%) / HTP*** Ave - Airport 345 kV b2436.50 circuit and any associated (13.60%) / ECP** (0.56%) substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (86.19%) / HTP*** b2436.60 to Bayway, convert it to (13.65%) / ECP** (0.16 %) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (86.26%) / HTP*** b2436.70 and any associated (13.66%) / ECP** (0.08 %) substation upgrades **Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Relocate the overhead Dominion (13.30%) / ECP** portion of Linden - North (0.20%) / EKPC (2.14%) / Ave "T" 138 kV circuit to HTP*** (0.20 %) / JCPL (3.57%) b2436.81 Bayway, convert it to 345 / ME (1.72%) / NEPTUNE* kV, and any associated (0.41%) / PECO (4.97%) / substation upgrades PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** ConEd (12.79%) / HTP*** (6.60%) / ECP** (0.02%) / PSEG (77.53%) / RE (3.06%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
		/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
	Convert the Bayway -	Dominion (13.30%) / ECP**
	Linden "Z" 138 kV circuit	(0.20%) / EKPC (2.14%) /
b2436.83	to 345 kV and any	HTP*** (0.20 %) / JCPL (3.57%)
	associated substation	/ ME (1.72%) / NEPTUNE*
	upgrades	(0.41%) / PECO (4.97%) /
		PENELEC (1.86%) / PEPCO
		(3.85%) / PPL (4.95%) / PSEG
		(5.89%) / RE (0.24%)
		DFAX Allocation:
		ConEd (12.80%) / HTP***
		(6.60%) / ECP** (0.02%) / PSEG
		(77.52%) / RE (3.06%)
		Load-Ratio Share Allocation:
		AEC (1.57%) / AEP (15.18%) /
		APS (5.89%) / ATSI (7.59%) /
		BGE (4.12%) / ComEd (12.38%)
	Convert the Bayway – Linden "W" 138 kV circuit to 345 kV and any	/ ConEd (0.55%) / Dayton
		(2.02%) / DEOK (3.15%) / DL
		(1.72%) / DPL (2.53%) /
		Dominion (13.30%) / ECP**
b2436.84		(0.20%) / EKPC (2.14%) /
02 130.01	associated substation	HTP*** (0.20 %) / JCPL (3.57%)
	upgrades	/ ME (1.72%) / NEPTUNE*
	upgrudes	(0.41%) / PECO (4.97%) /
		PENELEC (1.86%) / PEPCO
		(3.85%) / PPL (4.95%) / PSEG
		(5.89%) / RE (0.24%)
		DFAX Allocation:
		ConEd (65.97%) / ECP (0.02%) /
		HTP (34.01%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requirer	ment Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
	C (I D		(1.72%) / DPL (2.53%) /
	Convert the Bayway – Linden "M" 138 kV		Dominion (13.30%) / ECP**
h2426 95			(0.20%) / EKPC (2.14%) /
b2436.85	circuit to 345 kV and any associated substation		HTP*** (0.20 %) / JCPL (3.57%)
	upgrades		/ ME (1.72%) / NEPTUNE*
	upgrades		(0.41%) / PECO (4.97%) /
			PENELEC (1.86%) / PEPCO
			(3.85%) / PPL (4.95%) / PSEG
			(5.89%) / RE (0.24%)
			DFAX Allocation:
			ConEd (65.97%) / ECP (0.02%) /
			HTP (34.01%)
	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades		Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd (12.38%)
			/ ConEd (0.55%) / Dayton
			(2.02%) / DEOK (3.15%) / DL
			(1.72%) / DPL (2.53%) /
			Dominion (13.30%) / ECP**
b2436.90			(0.20%) / EKPC (2.14%) /
02430.70			HTP*** (0.20 %) / JCPL (3.57%)
			/ ME (1.72%) / NEPTUNE*
			(0.41%) / PECO (4.97%) /
			PENELEC (1.86%) / PEPCO
			(3.85%) / PPL (4.95%) / PSEG
			(5.89%) / RE (0.24%)
			DFAX Allocation:
			ConEd (99.16%) / HTP (0.05%) /
			PSEG (0.76%) / RE (0.03%)
	Relocate the Hudson 2		
b2436.91	generation to inject into		PSEG (100%)
	the 345 kV at Marion and		1525 (100%)
	any associated upgrades		

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

1		dui revende requirement responsible customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades	ConEd (89.34%) / HTP*** (1.07%) / ECP** (5.58%) / PSEG (3.86%) / RE (0.15%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades	ConEd (95.12%) / ECP (4.88%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades	ConEd (0.32%) / ECP (0.03%) / HTP (3.27%) / PSEG (92.72%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades	ConEd (0.15%) / ECP (0.02%) / HTP (2.91%) / PSEG (93.24%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades	ConEd (19.62%) / HTP*** (8.43%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (68.93%) / RE (2.72%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades	ConEd (100%)
b2438	Install two reactors at Tosco 230 kV	PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA	PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA	PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station	PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)				
			Load-Ratio Share Allocation:	
b2633.3			AEC (1.57%) / AEP (15.18%) /	
			APS (5.89%) / ATSI (7.59%) /	
			BGE (4.12%) / ComEd (12.38%) /	
			ConEd (0.55%) / Dayton (2.02%) /	
			DEOK (3.15%) / DL (1.72%) /	
			DPL (2.53%) / Dominion	
	Install an SVC at New		(13.30%) / ECP** (0.20%) /	
	Freedom 500 kV		EKPC (2.14%) / HTP*** (0.20 %)	
	substation		/ JCPL (3.57%) / ME (1.72%) /	
			NEPTUNE* (0.41%) / PECO	
			(4.97%) / PENELEC (1.86%) /	
			PEPCO (3.85%) / PPL (4.95%) /	
			PSEG (5.89%) / RE (0.24%)	
			DFAX Allocation:	
			AEC (0.01%) / DPL (99.98%) /	
			JCPL (0.01%)	
	Add a new 500 kV bay at		AEC (0.01%) / DPL (99.98%) /	
b2633.4	Salem (Expansion of		JCPL (0.01%)	
	Salem substation)		JCI L (0.0170)	
b2633.5	Add a new 500/230 kV		AEC (0.01%) / DPL (99.98%) /	
02033.3	autotransformer at Salem		JCPL (0.01%)	
			Load-Ratio Share Allocation:	
			AEC (1.57%) / AEP (15.18%) /	
			APS (5.89%) / ATSI (7.59%) /	
b2633.8			BGE (4.12%) / ComEd (12.38%) /	
	Implement high speed		ConEd (0.55%) / Dayton (2.02%) /	
	relaying utilizing OPGW		DEOK (3.15%) / DL (1.72%) /	
	on Salem – Orchard 500		DPL (2.53%) / Dominion	
	kV, Hope Creek – New		(13.30%) / ECP** (0.20%) /	
	Freedom 500 kV, New		EKPC (2.14%) / HTP*** (0.20 %)	
	Freedom - Salem 500 kV,		/ JCPL (3.57%) / ME (1.72%) /	
	Hope Creek – Salem 500		NEPTUNE* (0.41%) / PECO	
	kV, and New Freedom –		(4.97%) / PENELEC (1.86%) /	
	Orchard 500 kV lines		PEPCO (3.85%) / PPL (4.95%) /	
			PSEG (5.89%) / RE (0.24%)	
			DFAX Allocation:	
			AEC (0.01%) / DPL (99.98%) /	
			JCPL (0.01%)	

^{*}Neptune Regional Transmission System, LLC **East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

	Implement abonces to the	
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG ((100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG ((100%)

Version: 11.2.0

Effective Date: April 6, 2017

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tr	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new ConEd (64.55%) / ECP b2276 230 kV bay at Sewaren (35.45%) 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV ConEd (64.55%) / ECP b2276.1 circuits including (35.45%) Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to ConEd (64.55%) / ECP b2276.2 accommodate the two (35.45%) converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield. Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL (1.76%) / Dominion (12.32%) / Convert the Bergen – DPL (2.60%) / ECP** (0.20%) / Marion 138 kV path to EKPC (1.82%) / HTP*** (0.20%) b2436.10 double circuit 345 kV and / JCPL (3.76%) / ME (1.86%) / associated substation NEPTUNE* (0.42%) / PECO upgrades (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** ConEd (93.00%) / ECP (5.76%) / HTP (0.24%) / PSEG (0.96%) / RE (0.04%) **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL (1.76%) / Dominion (12.32%) / Convert the Marion -Bayonne "L" 138 kV DPL (2.60%) / ECP** (0.20%) / b2436.21 circuit to 345 kV and any EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.76%) / ME (1.86%) / associated substation NEPTUNE* (0.42%) / PECO upgrades (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** ConEd (87.68%) / HTP*** (11.72%) / ECP** (0.60 %)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

required 11	Required Transmission Edinarcements Annual Revenue Requirement Responsible Customer(s)			
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%)		
		DFAX Allocation: ConEd (87.69%) / HTP*** (11.71%) / ECP** (0.60 %)		
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.07%) / ECP (0.30%) / HTP (13.63%)		
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ConEd (86.05%) / ECP (0.33%) / HTP (13.62%)		

^{*}Neptune Regional Transmission System, LLC **East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North ConEd (85.84%) / HTP*** Ave - Airport 345 kV b2436.50 circuit and any associated (13.60%) / ECP** (0.56%) substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit ConEd (86.19%) / HTP*** b2436.60 to Bayway, convert it to (13.65%) / ECP** (0.16 %) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit ConEd (86.26%) / HTP*** b2436.70 and any associated (13.66%) / ECP** (0.08 %) substation upgrades **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL Relocate the overhead (1.76%) / Dominion (12.32%) / DPL (2.60%) / ECP** (0.20%) / portion of Linden - North EKPC (1.82%) / HTP*** (0.20%) Ave "T" 138 kV circuit to b2436.81 / JCPL (3.76%) / ME (1.86%) / Bayway, convert it to 345 kV, and any associated NEPTUNE* (0.42%) / PECO substation upgrades (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** ConEd (12.79%) / HTP*** (6.60%) / ECP** (0.02%) / PSEG (77.53%) / RE (3.06%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements A	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.69%) / AEP (14.17%) /
		APS (5.50%) / ATSI (8.04%) /
		BGE (4.16%) / ComEd (13.35%)
		/ ConEd (0.57%) / Dayton
		(2.11%) / DEOK (3.35%) / DL
	Conserve the December	(1.76%) / Dominion (12.32%) /
	Convert the Bayway -	DPL (2.60%) / ECP** (0.20%) /
L2426 92	Linden "Z" 138 kV circuit	EKPC (1.82%) / HTP*** (0.20%)
b2436.83	to 345 kV and any	/ JCPL (3.76%) / ME (1.86%) /
	associated substation	NEPTUNE* (0.42%) / PECO
	upgrades	(5.27%) / PENELEC (1.84%) /
		PEPCO (4.15%) / PPL (4.43%) /
		PSEG (6.18%) / RE (0.25%)
		DFAX Allocation:
		ConEd (12.80%) / HTP***
		(6.60%) / ECP** (0.02%) / PSEG
		(77.52%) / RE (3.06%)
		Load-Ratio Share Allocation:
		AEC (1.69%) / AEP (14.17%) /
		APS (5.50%) / ATSI (8.04%) /
		BGE (4.16%) / ComEd (13.35%)
	Convert the Bayway –	/ ConEd (0.57%) / Dayton
		(2.11%) / DEOK (3.35%) / DL
		(1.76%) / Dominion (12.32%) /
	Linden "W" 138 kV	DPL (2.60%) / ECP** (0.20%) /
b2436.84	circuit to 345 kV and any	EKPC (1.82%) / HTP*** (0.20%)
	associated substation	/ JCPL (3.76%) / ME (1.86%) /
	upgrades	NEPTUNE* (0.42%) / PECO
	upgrades	(5.27%) / PENELEC (1.84%) /
		PEPCO (4.15%) / PPL (4.43%) /
		PSEG (6.18%) / RE (0.25%)
		DFAX Allocation:
		ConEd (65.97%) / ECP (0.02%) /
		HTP (34.01%)

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Required Tra	ansmission Enhancements A	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.69%) / AEP (14.17%) /
		APS (5.50%) / ATSI (8.04%) /
		BGE (4.16%) / ComEd (13.35%)
		/ ConEd (0.57%) / Dayton
		(2.11%) / DEOK (3.35%) / DL
	Convert the Bayway –	(1.76%) / Dominion (12.32%) /
	Linden "M" 138 kV	DPL (2.60%) / ECP** (0.20%) /
b2436.85	circuit to 345 kV and any	EKPC (1.82%) / HTP*** (0.20%)
2.50.05	associated substation	/ JCPL (3.76%) / ME (1.86%) /
	upgrades	NEPTUNE* (0.42%) / PECO
	aps. auc.	(5.27%) / PENELEC (1.84%) /
		PEPCO (4.15%) / PPL (4.43%) /
		PSEG (6.18%) / RE (0.25%)
		DFAX Allocation:
		ConEd (65.97%) / ECP (0.02%) /
		HTP (34.01%)
	Relocate Farragut - Hudson "B" and "C" 345	Load-Ratio Share Allocation:
		AEC (1.69%) / AEP (14.17%) /
		APS (5.50%) / ATSI (8.04%) /
		BGE (4.16%) / ComEd (13.35%)
		/ ConEd (0.57%) / Dayton
		(2.11%) / DEOK (3.35%) / DL
		(1.76%) / Dominion (12.32%) /
		DPL (2.60%) / ECP** (0.20%) /
b2436.90	kV circuits to Marion 345	EKPC (1.82%) / HTP*** (0.20%)
	kV and any associated	/ JCPL (3.76%) / ME (1.86%) /
	substation upgrades	NEPTUNE* (0.42%) / PECO
	10	(5.27%) / PENELEC (1.84%) /
		PEPCO (4.15%) / PPL (4.43%) /
		PSEG (6.18%) / RE (0.25%)
		DFAX Allocation:
		ConEd (99.16%) / HTP (0.05%) /
		PSEG (0.76%) / RE (0.03%)
	Relocate the Hudson 2	
1040505	generation to inject into	7777 (400-1)
b2436.91	the 345 kV at Marion and	PSEG (100%)
	any associated upgrades	

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		tata revenue requirement responsible customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades	ConEd (89.34%) / HTP*** (1.07%) / ECP** (5.58%) / PSEG (3.86%) / RE (0.15%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades	ConEd (95.12%) / ECP (4.88%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades	ConEd (0.32%) / ECP (0.03%) / HTP (3.27%) / PSEG (92.72%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades	ConEd (0.15%) / ECP (0.02%) / HTP (2.91%) / PSEG (93.24%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades	ConEd (19.62%) / HTP*** (8.43%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (68.93%) / RE (2.72%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades	ConEd (100%)
b2438	Install two reactors at Tosco 230 kV	PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA	PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA	PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station	PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station	PSEG (100%)

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Required 11	ansmission Ennancements Ann	iuai Revenue Requiren	1
			Load-Ratio Share Allocation:
			AEC (1.69%) / AEP (14.17%) /
			APS (5.50%) / ATSI (8.04%) /
			BGE (4.16%) / ComEd (13.35%) /
			ConEd (0.57%) / Dayton (2.11%) /
			DEOK (3.35%) / DL (1.76%) /
			Dominion (12.32%) / DPL
	Install an SVC at New		(2.60%) / ECP** (0.20%) / EKPC
b2633.3	Freedom 500 kV		(1.82%) / HTP*** (0.20%) / JCPL
	substation		(3.76%) / ME (1.86%) /
			NEPTUNE* (0.42%) / PECO
			(5.27%) / PENELEC (1.84%) /
			PEPCO (4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			AEC (0.01%) / DPL (99.98%) /
			JCPL (0.01%)
b2633.4	Add a new 500 kV bay at		AEC (0.01%) / DPL (99.98%) /
	Salem (Expansion of		JCPL (0.01%)
	Salem substation)		3CI L (0.0170)
b2633.5	Add a new 500/230 kV		AEC (0.01%) / DPL (99.98%) /
02033.3	autotransformer at Salem		JCPL (0.01%)
			Load-Ratio Share Allocation:
			AEC (1.69%) / AEP (14.17%) /
			APS (5.50%) / ATSI (8.04%) /
			BGE (4.16%) / ComEd (13.35%) /
	Implement high speed		ConEd (0.57%) / Dayton (2.11%) /
	relaying utilizing OPGW		DEOK (3.35%) / DL (1.76%) /
	on Salem – Orchard 500		Dominion (12.32%) / DPL
	kV, Hope Creek – New		(2.60%) / ECP** (0.20%) / EKPC
b2633.8	Freedom 500 kV, New		(1.82%) / HTP*** (0.20%) / JCPL
	Freedom - Salem 500 kV,		(3.76%) / ME (1.86%) /
	Hope Creek – Salem 500		NEPTUNE* (0.42%) / PECO
	kV, and New Freedom –		(5.27%) / PENELEC (1.84%) /
	Orchard 500 kV lines		PEPCO (4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			AEC (0.01%) / DPL (99.98%) /
			JCPL (0.01%)

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b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers Implement changes to the	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%)
	1 . H . 100 MAP	PSEG (100%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

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b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker	PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker	PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)	PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport	PSEG (100%)

Version: 12.2.0

Effective Date: May 1, 2017

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

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The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 ECP (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 ECP (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 ECP (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

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Annual Revenue Requirement Required Transmission Enhancements Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion Convert the Bergen – (12.39%) / DPL (2.62%) / Marion 138 kV path to ECP** (0.20%) / EKPC (1.82%) / double circuit 345 kV and b2436.10 HTP*** (0.20%) / JCPL (3.78%) associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** ECP (89.85%) / HTP (2.18%) / PSEG (7.66%) / RE (0.31%) **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Convert the Marion -ECP** (0.20%) / EKPC (1.82%) / Bayonne "L" 138 kV HTP*** (0.20%) / JCPL (3.78%) b2436.21 circuit to 345 kV and any associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (99.40%) / ECP** (0.60 %)

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Required Transmission Emirancements Annual Revenue Requirement Responsible Customer(s)			
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)	
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.30%) / HTP (99.70%)	
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.33%) / HTP (99.67%)	

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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North HTP*** (99.44%) / ECP** Ave - Airport 345 kV b2436.50 circuit and any associated (0.56%)substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit HTP*** (99.84%) / ECP** (0.16 b2436.60 to Bayway, convert it to %) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit HTP*** (99.92%) / ECP** (0.08 b2436.70 and any associated %) substation upgrades **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Relocate the overhead ECP** (0.20%) / EKPC (1.82%) / portion of Linden - North HTP*** (0.20%) / JCPL (3.78%) Ave "T" 138 kV circuit to b2436.81 / ME (1.87%) / NEPTUNE* Bayway, convert it to 345 kV, and any associated (0.42%) / PECO (5.30%) / substation upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (7.57%) / ECP** (0.02%) / PSEG (88.90%) / RE (3.51%)

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Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.70%) / AEP (14.25%) /
		APS (5.53%) / ATSI (8.09%) /
		BGE (4.19%) / ComEd (13.43%)
		/ Dayton (2.12%) / DEOK
		(3.37%) / DL (1.77%) / Dominion
	Convert the Bayway -	(12.39%) / DPL (2.62%) /
	Linden "Z" 138 kV circuit	ECP** (0.20%) / EKPC (1.82%) /
b2436.83	to 345 kV and any	HTP*** (0.20%) / JCPL (3.78%)
02430.03	associated substation	/ ME (1.87%) / NEPTUNE*
	upgrades	(0.42%) / PECO (5.30%) /
	upgrades	PENELEC (1.84%) / PEPCO
		(4.18%) / PPL (4.46%) / PSEG
		(6.22%) / RE (0.25%)
		DFAX Allocation:
		HTP*** (7.56%) / ECP**
		(0.02%) / PSEG (88.91%) / RE
		(3.51%)
		Load-Ratio Share Allocation:
		AEC (1.70%) / AEP (14.25%) /
		APS (5.53%) / ATSI (8.09%) /
		BGE (4.19%) / ComEd (13.43%)
	Convert the Bayway – Linden "W" 138 kV	/ Dayton (2.12%) / DEOK
		(3.37%) / DL (1.77%) / Dominion
		(12.39%) / DPL (2.62%) /
b2436.84		ECP** (0.20%) / EKPC (1.82%) /
02430.84	circuit to 345 kV and any associated substation	HTP*** (0.20%) / JCPL (3.78%)
		/ ME (1.87%) / NEPTUNE*
	upgrades	(0.42%) / PECO (5.30%) /
		PENELEC (1.84%) / PEPCO
		(4.18%) / PPL (4.46%) / PSEG
		(6.22%) / RE (0.25%)
		DFAX Allocation:
		ECP (0.02%) / HTP (99.98%)

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Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATS1 (8.09%) / BGE (4.19%) / ComEd (13.43%) Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) b2436.85	Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) KV and any associated substation upgrades Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades Relocate Farragut - HUGSON / EXPC (1.82%) / HTP**** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and			
APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)			
BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DBOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) associated substation upgrades HTP*** (0.20%) / JCPL (3.78%) / PENELEC (1.84%) / PECO (5.30%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / BCP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / EKPC (1.82%) / FENELEC (1.84%) / PECO (5.30%) / PENELEC (1.84%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PECO (4.18%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%)			
Convert the Bayway - Linden "M" 138 kV ECP** (0.20%) / EKPC (1.82%) / PECP** (0.20%) / EKPC (1.82%) / PECP** (0.20%) / EVPC (3.37%) / DEC (3.37%) / DEC (3.78%) / ECP** (0.20%) / EVPC (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (3.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / HTP (99.98%)			, , , , , , , , , , , , , , , , , , ,
Convert the Bayway - Linden "M" 138 kV ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / DEOK (3.37%) / DEOK (` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - HTP*** (0.20%) / ECP** (0.20%) / JCPL (3.78%) / HTP**** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / HTP (99.98%)			
Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades		Convert the Bayway –	· · · · · · · · · · · · · · · · · · ·
Associated substation upgrades			ECP** (0.20%) / EKPC (1.82%) /
Associated substation upgrades	b2436.85	circuit to 345 kV and any	HTP*** (0.20%) / JCPL (3.78%)
PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / HTP (99.98%) Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / JCPL (3.78%) KV and any associated substation upgrades Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)		_	/ ME (1.87%) / NEPTUNE*
PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / HTP (99.98%)		upgrades	(0.42%) / PECO (5.30%) /
Co.22%) / RE (0.25%) DFAX Allocation:			PENELEC (1.84%) / PEPCO
DFAX Allocation: ECP (0.02%) / HTP (99.98%)			(4.18%) / PPL (4.46%) / PSEG
ECP (0.02%) / HTP (99.98%) Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / JCPL (3.78%) kV and any associated substation upgrades ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			(6.22%) / RE (0.25%)
Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / JCPL (3.78%) KV circuits to Marion 345 kV and any associated substation upgrades (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			DFAX Allocation:
AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)			ECP (0.02%) / HTP (99.98%)
AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)			
APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)		Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated	Load-Ratio Share Allocation:
BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / JCPL (3.78%) HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%) PSEG (100%)			AEC (1.70%) / AEP (14.25%) /
Relocate Farragut - Hudson "B" and "C" 345 ECP** (0.20%) / DPL (2.62%) / b2436.90 ECP** (0.20%) / EKPC (1.82%) / kV and any associated substation upgrades Substation upgrades ECP** (0.20%) / PECO (5.30%) / b2436.91 Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%) c			APS (5.53%) / ATSI (8.09%) /
Relocate Farragut - (12.39%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / JCPL (3.78%) KV circuits to Marion 345 kV and any associated substation upgrades (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			BGE (4.19%) / ComEd (13.43%)
Relocate Farragut - Hudson "B" and "C" 345 ECP** (0.20%) / EKPC (1.82%) / b2436.90 kV circuits to Marion 345 kV and any associated substation upgrades (0.42%) / PECO (5.30%) / FENELEC (1.84%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PECO (4.18%) / PECO (4.18%) / PEGO (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			/ Dayton (2.12%) / DEOK
Hudson "B" and "C" 345 ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%)			(3.37%) / DL (1.77%) / Dominion
b2436.90 kV circuits to Marion 345 kV and any associated substation upgrades KV circuits to Marion 345 kV and any associated substation upgrades HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			(12.39%) / DPL (2.62%) /
kV and any associated substation upgrades			ECP** (0.20%) / EKPC (1.82%) /
Substation upgrades (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)	b2436.90		HTP*** (0.20%) / JCPL (3.78%)
PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and			/ ME (1.87%) / NEPTUNE*
(4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%) PSEG (100%)			(0.42%) / PECO (5.30%) /
(6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			PENELEC (1.84%) / PEPCO
BFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			(4.18%) / PPL (4.46%) / PSEG
HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			(6.22%) / RE (0.25%)
RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and RE (3.57%) PSEG (100%)			DFAX Allocation:
Belocate the Hudson 2 generation to inject into the 345 kV at Marion and Relocate the Hudson 2 generation to inject into the 345 kV at Marion and			HTP (5.83%) / PSEG (90.60%) /
b2436.91 generation to inject into the 345 kV at Marion and PSEG (100%)			RE (3.57%)
the 345 kV at Marion and PSEG (100%)		Relocate the Hudson 2	
the 345 kV at Marion and PSEG (100%)	b2426.01	generation to inject into	DCEC (1000/)
any associated upgrades	62436.91		PSEG (100%)
		any associated upgrades	

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	New Bergen 345/230 kV	· ·
b2437.10	transformer and any	HTP*** (1.99%) / ECP** (92.41%) / PSEG (5.38%) / RE
02437.10	associated substation	(92.41%)/ PSEG (3.58%)/ RE (0.22%)
	upgrades	(0.2270)
	New Bergen 345/138 kV	
b2437.11	transformer #1 and any	ECP (72.43%) / HTP***
02.07.11	associated substation	(27.57%)
	upgrades	
	New Bayway 345/138 kV	ECD (0.250/) / HTD (2.200/) /
b2437.20	transformer #1 and any associated substation	ECP (0.35%) / HTP (3.28%) /
	upgrades	PSEG (92.71%) / RE (3.66%)
	New Bayway 345/138 kV	
	transformer #2 and any	ECP (0.17%) / HTP (2.92%) /
b2437.21	associated substation	PSEG (93.23%) / RE (3.68%)
	upgrades	1220 (30.2070) 122 (0.0070)
	New Linden 345/230 kV	HTD*** (10.520/) / EOD**
b2437.30	transformer and any	HTP*** (10.53%) / ECP**
02437.30	associated substation	(0.25%) / Neptune (0.05%) / PSEG (85.78%) / RE (3.39%)
	upgrades	F3EG (83.78%)/ RE (3.39%)
	New Bayonne 345/69 kV	
b2437.33	transformer and any	PSEG (100%)
02.07.00	associated substation	1220 (100/0)
	upgrades	
b2438	Install two reactors at	PSEG (100.00%)
	Tosco 230 kV	
	Replace the Tosco 138kV	
b2439	breaker 'CB1/2 (CBT)'	PSEG (100.00%)
	with 63kA	
b2474	Rebuild Athenia 138 kV to	PSEG (100%)
	80kA	1 2 2 (100,0)
b2589	Install a 100 MVAR 230	
	kV shunt reactor at Mercer	PSEG (100%)
	station	
1.0500	Install two 75 MVAR 230	PGEG (1000()
b2590	kV capacitors at Sewaren	PSEG (100%)
	station	

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		idal Revenue Requirement - Responsible Editionici(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation:
		DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.4	Add a new 500 kV bay at Salem (Expansion of Salem substation)	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.5	Add a new 500/230 kV autotransformer at Salem	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) /
		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

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Troquired Tre		dai Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
b2703	Install a 100 MVAR reactor	PSEG (100%)
02/03	at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

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b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker	PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker	PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)	PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport	PSEG (100%)

Version: 813.2.0

Effective Date: June 15, 2017

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

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The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 ECP (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 ECP (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 ECP (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

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Annual Revenue Requirement Required Transmission Enhancements Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion Convert the Bergen – (12.39%) / DPL (2.62%) / Marion 138 kV path to ECP** (0.20%) / EKPC (1.82%) / double circuit 345 kV and b2436.10 HTP*** (0.20%) / JCPL (3.78%) associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** ECP (89.85%) / HTP (2.18%) / PSEG (7.66%) / RE (0.31%) **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Convert the Marion -ECP** (0.20%) / EKPC (1.82%) / Bayonne "L" 138 kV HTP*** (0.20%) / JCPL (3.78%) b2436.21 circuit to 345 kV and any associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (99.40%) / ECP** (0.60 %)

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110401110	required Transmission Emilancements 7 unital revenue requirement Responsible Customer(s)			
		Load-Ratio Share Allocation:		
		AEC (1.70%) / AEP (14.25%) /		
		APS (5.53%) / ATSI (8.09%) /		
		BGE (4.19%) / ComEd (13.43%)		
		/ Dayton (2.12%) / DEOK		
		(3.37%) / DL (1.77%) / Dominion		
	Convert the Marion -	(12.39%) / DPL (2.62%) /		
	Bayonne "C" 138 kV	ECP** (0.20%) / EKPC (1.82%) /		
b2436.22	circuit to 345 kV and any	HTP*** (0.20%) / JCPL (3.78%)		
	associated substation	/ ME (1.87%) / NEPTUNE*		
	upgrades	(0.42%) / PECO (5.30%) /		
	!	PENELEC (1.84%) / PEPCO		
		(4.18%) / PPL (4.46%) / PSEG		
		(6.22%) / RE (0.25%)		
		DFAX Allocation:		
		HTP*** (99.40%) / ECP**		
		(0.60%)		
	Construct a new Bayway –			
b2436.33	Bayonne 345 kV circuit	ECP (0.30%) / HTP (99.70%)		
02430.33	and any associated	ECI (0.30%)/ IIII (33.70%)		
	substation upgrades			
b2436.34	Construct a new North			
	Ave – Bayonne 345 kV	ECP (0.33%) / HTP (99.67%)		
	circuit and any associated	LCI (0.33/0)/ IIII (99.01/0)		
	substation upgrades			

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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North HTP*** (99.44%) / ECP** Ave - Airport 345 kV b2436.50 circuit and any associated (0.56%)substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit HTP*** (99.84%) / ECP** b2436.60 to Bayway, convert it to (0.16%)345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit HTP*** (99.92%) / ECP** b2436.70 and any associated (0.08%)substation upgrades **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL Relocate the overhead (2.62%) / ECP** (0.20%) / portion of Linden - North EKPC (1.82%) / HTP*** Ave "T" 138 kV circuit to (0.20%) / JCPL (3.78%) / ME b2436.81 Bayway, convert it to 345 (1.87%) / NEPTUNE* (0.42%) kV, and any associated / PECO (5.30%) / PENELEC substation upgrades (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (7.57%) / ECP** (0.02%) / PSEG (88.90%) / RE (3.51%)

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Required Tra	ansmission Enhancements A	Annual Revenue Requirer	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.70%) / AEP (14.25%) /
			APS (5.53%) / ATSI (8.09%) /
			BGE (4.19%) / ComEd (13.43%)
			/ Dayton (2.12%) / DEOK
			(3.37%) / DL (1.77%) / Dominion
	Convert the Payman		(12.39%) / DPL (2.62%) /
	Convert the Bayway - Linden "Z" 138 kV circuit		ECP** (0.20%) / EKPC (1.82%) /
b2436.83			HTP*** (0.20%) / JCPL (3.78%)
02430.63	to 345 kV and any associated substation		/ ME (1.87%) / NEPTUNE*
	upgrades		(0.42%) / PECO (5.30%) /
	upgrades		PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) / PSEG
			(6.22%) / RE (0.25%)
			DFAX Allocation:
			HTP*** (7.56%) / ECP**
			(0.02%) / PSEG (88.91%) / RE
			(3.51%)
			Load-Ratio Share Allocation:
	Convert the Bayway – Linden "W" 138 kV circuit to 345 kV and any		AEC (1.70%) / AEP (14.25%) /
			APS (5.53%) / ATSI (8.09%) /
			BGE (4.19%) / ComEd (13.43%)
			/ Dayton (2.12%) / DEOK
			(3.37%) / DL (1.77%) / Dominion
			(12.39%) / DPL (2.62%) /
b2436.84			ECP** (0.20%) / EKPC (1.82%) /
02430.64	associated substation		HTP*** (0.20%) / JCPL (3.78%)
			/ ME (1.87%) / NEPTUNE*
	upgrades		(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) / PSEG
			(6.22%) / RE (0.25%)
		[DFAX Allocation:
			ECP (0.02%) / HTP (99.98%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements A	Annual Revenue Requiren	nent Responsible Customer(s)
		Load-Ratio Share Allocation:	
			AEC (1.70%) / AEP (14.25%) /
			APS (5.53%) / ATSI (8.09%) /
			BGE (4.19%) / ComEd (13.43%)
			/ Dayton (2.12%) / DEOK
	C		(3.37%) / DL (1.77%) / Dominion
	Convert the Bayway –		(12.39%) / DPL (2.62%) /
b2436.85	Linden "M" 138 kV		ECP** (0.20%) / EKPC (1.82%) /
02430.83	circuit to 345 kV and any		HTP*** (0.20%) / JCPL (3.78%)
	associated substation		/ ME (1.87%) / NEPTUNE*
	upgrades		(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) / PSEG
			(6.22%) / RE (0.25%)
			DFAX Allocation:
			ECP (0.02%) / HTP (99.98%)
			Load-Ratio Share Allocation:
			AEC (1.70%) / AEP (14.25%) /
			APS (5.53%) / ATSI (8.09%) /
			BGE (4.19%) / ComEd (13.43%)
			/ Dayton (2.12%) / DEOK
			(3.37%) / DL (1.77%) / Dominion
	Relocate Farragut -		(12.39%) / DPL (2.62%) /
	Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades		ECP** (0.20%) / EKPC (1.82%) /
b2436.90			HTP*** (0.20%) / JCPL (3.78%)
			/ ME (1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) / PSEG
			(6.22%) / RE (0.25%)
			DFAX Allocation:
			HTP (5.83%) / PSEG (90.60%) /
			RE (3.57%)
	Relocate the Hudson 2		
b2436.91	generation to inject into		PSEG (100%)
	the 345 kV at Marion and		1523 (100/0)
	any associated upgrades		

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^{***}Hudson Transmission Partners, LLC

	New Bergen 345/230 kV	· ·
b2437.10	transformer and any	HTP*** (1.99%) / ECP** (92.41%) / PSEG (5.38%) / RE
02437.10	associated substation	(92.41%)/ PSEG (3.58%)/ RE (0.22%)
	upgrades	(0.2270)
	New Bergen 345/138 kV	
b2437.11	transformer #1 and any	ECP (72.43%) / HTP***
02.07.11	associated substation	(27.57%)
	upgrades	
	New Bayway 345/138 kV	ECD (0.250/) / HTD (2.200/) /
b2437.20	transformer #1 and any associated substation	ECP (0.35%) / HTP (3.28%) /
	upgrades	PSEG (92.71%) / RE (3.66%)
	New Bayway 345/138 kV	
	transformer #2 and any	ECP (0.17%) / HTP (2.92%) /
b2437.21	associated substation	PSEG (93.23%) / RE (3.68%)
	upgrades	1220 (30.2070) 122 (0.0070)
	New Linden 345/230 kV	HTD*** (10.520/) / EOD**
b2437.30	transformer and any	HTP*** (10.53%) / ECP**
02437.30	associated substation	(0.25%) / Neptune (0.05%) / PSEG (85.78%) / RE (3.39%)
	upgrades	F3EG (83.78%)/ RE (3.39%)
	New Bayonne 345/69 kV	
b2437.33	transformer and any	PSEG (100%)
02.07.00	associated substation	1220 (100/0)
	upgrades	
b2438	Install two reactors at	PSEG (100.00%)
	Tosco 230 kV	
	Replace the Tosco 138kV	
b2439	breaker 'CB1/2 (CBT)'	PSEG (100.00%)
	with 63kA	
b2474	Rebuild Athenia 138 kV to	PSEG (100%)
	80kA	1 2 2 (100,0)
b2589	Install a 100 MVAR 230	
	kV shunt reactor at Mercer	PSEG (100%)
	station	
1.0500	Install two 75 MVAR 230	PGEG (1000()
b2590	kV capacitors at Sewaren	PSEG (100%)
	station	

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Required 11a	Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)			
		Load-Ratio Share Allocation:		
		AEC (1.70%) / AEP (14.25%) /		
		APS (5.53%) / ATSI (8.09%) /		
		BGE (4.19%) / ComEd (13.43%)		
		/ Dayton (2.12%) / DEOK		
		(3.37%) / DL (1.77%) / Dominion		
		(12.39%) / DPL (2.62%) /		
	Install an SVC at New	ECP** (0.20%) / EKPC (1.82%) /		
b2633.3	Freedom 500 kV	HTP*** (0.20%) / JCPL (3.78%)		
	substation	/ ME (1.87%) / NEPTUNE*		
		(0.42%) / PECO (5.30%) /		
		PENELEC (1.84%) / PEPCO		
		(4.18%) / PPL (4.46%) / PSEG		
		(6.22%) / RE (0.25%)		
		DFAX Allocation:		
		AEC (0.01%) / DPL (99.98%) /		
		JCPL (0.01%)		
	Add a new 500 kV bay at	AEG (0.010() / P.P.I. (00.000() /		
b2633.4	Salem (Expansion of	AEC (0.01%) / DPL (99.98%) /		
	Salem substation)	JCPL (0.01%)		
1.2.2.2.2	Add a new 500/230 kV	AEC (0.01%) / DPL (99.98%) /		
b2633.5	autotransformer at Salem	JCPL (0.01%)		
		Load-Ratio Share Allocation:		
		AEC (1.70%) / AEP (14.25%) /		
		APS (5.53%) / ATSI (8.09%) /		
		BGE (4.19%) / ComEd (13.43%)		
	Implement high speed	/ Dayton (2.12%) / DEOK		
	relaying utilizing OPGW	(3.37%) / DL (1.77%) / Dominion		
	on Salem – Orchard 500	(12.39%) / DPL (2.62%) /		
	kV, Hope Creek – New	ECP** (0.20%) / EKPC (1.82%) /		
b2633.8	Freedom 500 kV, New	HTP*** (0.20%) / JCPL (3.78%)		
02000.0	Freedom - Salem 500 kV,	/ ME (1.87%) / NEPTUNE*		
	Hope Creek – Salem 500	(0.42%) / PECO (5.30%) /		
	kV, and New Freedom –	PENELEC (1.84%) / PEPCO		
	Orchard 500 kV lines	(4.18%) / PPL (4.46%) / PSEG		
		(6.22%) / RE (0.25%)		
		DFAX Allocation:		
		AEC (0.01%) / DPL (99.98%) /		
		JCPL (0.01%)		
		0.0170)		

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

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b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

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Required 113	ansmission Enhancements Anni	aal Revenue Requiremer	nt Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q- 1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		See sub-IDs for cost allocations

Required 11	ansmission Enhancements Annu	ial Revenue Requireme	ent Responsible Customer(s)
	Conver the R-1318 and Q-		
b2835.1	1317 (Edison – Metuchen)		PSEG (100%)
	138 kV circuits to one 230		
	kV circuit (Brunswick –		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.2	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Meadow Road -		, ,
	Pierson Ave)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.3	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
	kV circuit (Pierson Ave -		
	Metuchen)		
	Convert the N-1340 and T-		
1.2026	1372/D-1330 (Brunswick –	See sub-IDs for cost allocation	
b2836	Trenton) 138 kV circuits to		See sub-IDs for cost allocations
	230 kV circuits		
	Convert the N-1340 and T-		PSEG (100%)
b2836.1	1372/D-1330 (Brunswick -		
	Trenton) 138 kV circuits to		
	230 kV circuits (Brunswick		
	- Hunterglen)		
	Convert the N-1340 and T-		NEPTUNE (100%)
	1372/D-1330 (Brunswick -		
b2836.2	Trenton) 138 kV circuits to		
	230 kV circuits (Hunterglen		
	- Trenton)		
	Convert the N-1340 and T-		NEPTUNE (100%)
	1372/D-1330 (Brunswick -		
b2836.3	Trenton) 138 kV circuits to		
	230 kV circuits (Brunswick		
	- Devils Brook)		
b2836.4	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		NEPTUNE (100%)
	Trenton) 138 kV circuits to		
	230 kV circuits (Devils		
	Brook - Trenton)		

Required 11	ansmission Enhancements Annu	ial Revenue Requirement	Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		See sub-IDs for cost allocations
b2837.1	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		NEPTUNE (100%)
b2837.2	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		NEPTUNE (100%)
b2837.3	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		NEPTUNE (100%)
b2837.4	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		NEPTUNE (7.65%) / PSEG (88.71%) / RECO (3.64%)
b2837.5	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		NEPTUNE (6.18%) / PSEG (90.12%) / RECO (3.70%)
b2837.6	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		NEPTUNE (100%)

required 116	distrission Emancements Ami	iai Kevenue Requirement	Responsible Customer(s)
b2837.7	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave F)		NEPTUNE (100%)
b2837.8	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Ward Ave - Crosswicks Z)		NEPTUNE (100%)
b2837.9	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Williams Z)		NEPTUNE (9.14%) / PSEG (87.28%) / RECO (3.58%)
b2837.10	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Williams - Bustleton Z)		NEPTUNE (7.50%) / PSEG (88.85%) / RECO (3.65%)
b2837.11	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Z)		NEPTUNE (5.89%) / PSEG (90.40%) / RECO (3.71%)

Version: 14.2.0

Effective Date: October 10, 2017

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 ECP (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 ECP (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 ECP (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion Convert the Bergen – (12.39%) / DPL (2.62%) / Marion 138 kV path to ECP** (0.20%) / EKPC (1.82%) / double circuit 345 kV and b2436.10 HTP*** (0.20%) / JCPL (3.78%) associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** ECP (89.85%) / HTP (2.18%) / PSEG (7.66%) / RE (0.31%) **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Convert the Marion -ECP** (0.20%) / EKPC (1.82%) / Bayonne "L" 138 kV HTP*** (0.20%) / JCPL (3.78%) b2436.21 circuit to 345 kV and any associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (99.40%) / ECP** (0.60 %)

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required 110		Tuda Revenue Requirement Responsible Edistorier(s)
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.30%) / HTP (99.70%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.33%) / HTP (99.67%)

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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North HTP*** (99.44%) / ECP** Ave - Airport 345 kV b2436.50 circuit and any associated (0.56%)substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit HTP*** (99.84%) / ECP** b2436.60 to Bayway, convert it to (0.16%)345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit HTP*** (99.92%) / ECP** b2436.70 and any associated (0.08%)substation upgrades **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Relocate the overhead ECP** (0.20%) / EKPC (1.82%) / portion of Linden - North HTP*** (0.20%) / JCPL (3.78%) Ave "T" 138 kV circuit to b2436.81 / ME (1.87%) / NEPTUNE* Bayway, convert it to 345 kV, and any associated (0.42%) / PECO (5.30%) / substation upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (7.57%) / ECP** (0.02%) / PSEG (88.90%) / RE (3.51%)

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^{***}Hudson Transmission Partners, LLC

Required Transmission Enhance	ements Annual Revenu	ue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.70%) / AEP (14.25%) /
		APS (5.53%) / ATSI (8.09%) /
		BGE (4.19%) / ComEd (13.43%)
		/ Dayton (2.12%) / DEOK
		(3.37%) / DL (1.77%) / Dominion
Convert the F	Sannan	(12.39%) / DPL (2.62%) /
Linden "Z" 138	•	ECP** (0.20%) / EKPC (1.82%) /
b2436.83 to 345 kV a		HTP*** (0.20%) / JCPL (3.78%)
associated su	3	/ ME (1.87%) / NEPTUNE*
upgrad		(0.42%) / PECO (5.30%) /
upgrad		PENELEC (1.84%) / PEPCO
		(4.18%) / PPL (4.46%) / PSEG
		(6.22%) / RE (0.25%)
		DFAX Allocation:
		HTP*** (7.56%) / ECP**
		(0.02%) / PSEG (88.91%) / RE
		(3.51%)
		Load-Ratio Share Allocation:
		AEC (1.70%) / AEP (14.25%) /
		APS (5.53%) / ATSI (8.09%) /
		BGE (4.19%) / ComEd (13.43%)
		/ Dayton (2.12%) / DEOK
		(3.37%) / DL (1.77%) / Dominion
Convert the E		(12.39%) / DPL (2.62%) /
Linden "W"		ECP** (0.20%) / EKPC (1.82%) /
b2436.84 circuit to 345 k	5	HTP*** (0.20%) / JCPL (3.78%)
associated su		/ ME (1.87%) / NEPTUNE*
upgrad	les	(0.42%) / PECO (5.30%) /
		PENELEC (1.84%) / PEPCO
		(4.18%) / PPL (4.46%) / PSEG
		(6.22%) / RE (0.25%)
		DFAX Allocation:
		ECP (0.02%) / HTP (99.98%)

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^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)	Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / HTP (99.98%) Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / PECO (5.30%) / PENELEC (1.84%) / PECO (5.30%) /			
APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)			
BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Deminion (12.39%) / DEOK (3.37%) / DL (1.77%) / Deminion (12.39%) / DEOK (3.37%) / DL (1.77%) / Deminion (12.39%) / DPL (2.62%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Deminion (12.39%) / DPL (2.62%) / ECP** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / DFAX Allocation: HTP (5.83%) / PSEG (90.60%			
Convert the Bayway - Linden "M" 138 kV Circuit to 345 kV and any associated substation upgrades Coad-Ratio Share Allocation: ECP (0.02%) / EPC (0.25%) / BFAX Allocation: ECP (0.02%) / BFC (1.82%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / Comed (13.37%) / DeD (3.37%) /			, , , , , , , , , , , , , , , , , , ,
Convert the Bayway - Linden "M" 138 kV ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)			` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
Convert the Bayway - Linden "M" 138 kV ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / JCPL (3.78%)			
Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades Comparison of the compar		Convert the Bayway –	, , , , , , , , , , , , , , , , , , ,
Associated substation upgrades			ECP** (0.20%) / EKPC (1.82%) /
Associated substation upgrades	b2436.85	circuit to 345 kV and any	HTP*** (0.20%) / JCPL (3.78%)
PENELEC (1.84%) / PEPCO (4.18%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / HTP (99.98%) Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Deominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / W circuits to Marion 345 kV circuits to Marion 345 kV and any associated substation upgrades b2436.90 c25%) / PEPCO (5.30%) / PEPCO (4.18%) / PEPCO (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /		_	/ ME (1.87%) / NEPTUNE*
PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / HTP (99.98%) Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Hudson "B" and "C" 345 kV circuits to Marion 345 kV circuits to Marion 345 kV and any associated substation upgrades (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /		upgrades	(0.42%) / PECO (5.30%) /
Co.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / HTP (99.98%) Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) KV and any associated substation upgrades Load-Ratio Share Allocation: HTP*** (0.20%) / AEP (14.25%) / APS (5.53%) / PECP (1.82%) / BGE (4.19%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP*** (0.20%) / EKPC (1.82%) / HTP**** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /			PENELEC (1.84%) / PEPCO
DFAX Allocation: ECP (0.02%) / HTP (99.98%) ECP (0.02%) / HTP (99.98%) ECP (0.02%) / HTP (99.98%) ECP (0.02%) / HTP (99.98%) AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Hudson "B" and "C" 345 ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / JCPL (3.78%) W and any associated substation upgrades ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /			(4.18%) / PPL (4.46%) / PSEG
ECP (0.02%) / HTP (99.98%) ECP (0.02%) / HTP (99.98%) Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Hudson "B" and "C" 345 kV circuits to Marion 345 kV circuits to Marion 345 kV and any associated substation upgrades (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /			(6.22%) / RE (0.25%)
Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HUdson "B" and "C" 345 ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) kV and any associated substation upgrades (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /			DFAX Allocation:
AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)			ECP (0.02%) / HTP (99.98%)
AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)			
APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)		Hudson "B" and "C" 345	Load-Ratio Share Allocation:
BGE (4.19%) / ComEd (13.43%)			AEC (1.70%) / AEP (14.25%) /
Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades State State State Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /			APS (5.53%) / ATSI (8.09%) /
Relocate Farragut - Hudson "B" and "C" 345 ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) HTP*** (0.20%) / JCPL (3.78%) ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /			BGE (4.19%) / ComEd (13.43%)
Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades Relocate Farragut - Hudson "B" and "C" 345 ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /			/ Dayton (2.12%) / DEOK
Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /			(3.37%) / DL (1.77%) / Dominion
b2436.90 kV circuits to Marion 345 kV and any associated substation upgrades HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /			(12.39%) / DPL (2.62%) /
kV and any associated substation upgrades / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /			ECP** (0.20%) / EKPC (1.82%) /
substation upgrades (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /	b2436.90		HTP*** (0.20%) / JCPL (3.78%)
PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /		kV and any associated	/ ME (1.87%) / NEPTUNE*
(4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /		•	(0.42%) / PECO (5.30%) /
(6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /			PENELEC (1.84%) / PEPCO
DFAX Allocation: HTP (5.83%) / PSEG (90.60%) /			(4.18%) / PPL (4.46%) / PSEG
HTP (5.83%) / PSEG (90.60%) /			(6.22%) / RE (0.25%)
			DFAX Allocation:
RF (3.57%)			HTP (5.83%) / PSEG (90.60%) /
KL (5.5170)			RE (3.57%)
Relocate the Hudson 2		Relocate the Hudson 2	
b2/36.01 generation to inject into	b2/26 01	generation to inject into	DSEC (100%)
b2436.91 the 345 kV at Marion and PSEG (100%)	b2436.91	the 345 kV at Marion and	PSEG (100%)
any associated upgrades		any associated upgrades	

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	New Bergen 345/230 kV	HTP*** (1.99%) / ECP**
b2437.10	transformer and any	(92.41%) / PSEG (5.38%) / RE
	associated substation	(0.22%)
	upgrades	, ,
	New Bergen 345/138 kV	ECD (72 420() / HTD***
b2437.11	transformer #1 and any associated substation	ECP (72.43%) / HTP*** (27.57%)
	upgrades	(21.3170)
	New Bayway 345/138 kV	
1 2 427 20	transformer #1 and any	ECP (0.35%) / HTP (3.28%) /
b2437.20	associated substation	PSEG (92.71%) / RE (3.66%)
	upgrades	
	New Bayway 345/138 kV	
b2437.21	transformer #2 and any	ECP (0.17%) / HTP (2.92%) /
02137.21	associated substation	PSEG (93.23%) / RE (3.68%)
	upgrades	
	New Linden 345/230 kV	HTP*** (10.53%) / ECP**
b2437.30	transformer and any associated substation	(0.25%) / Neptune (0.05%) /
	upgrades	PSEG (85.78%) / RE (3.39%)
	New Bayonne 345/69 kV	
1 2 425 22	transformer and any	PGPG (4000())
b2437.33	associated substation	PSEG (100%)
	upgrades	
1-2420	Install two reactors at	DGEC (100 00%)
b2438	Tosco 230 kV	PSEG (100.00%)
	Replace the Tosco 138kV	
b2439	breaker 'CB1/2 (CBT)'	PSEG (100.00%)
	with 63kA	
b2474	Rebuild Athenia 138 kV to	PSEG (100%)
U2+14	80kA	1320 (100%)
	Install a 100 MVAR 230	
b2589	kV shunt reactor at Mercer	PSEG (100%)
	station	
1.2500	Install two 75 MVAR 230	PGPG (4000)
b2590	kV capacitors at Sewaren	PSEG (100%)
	station	

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Required 11a	ansmission Ennancements Ann	nual Revenue Requirement Responsible Customer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

rtequired 11	Required Transmission Emiliancements Translating Revenue Requirement Responsible Customer(s)				
b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		

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Taganea Tre		da Revenue Requirement Responsible Eustomer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
b2703	Install a 100 MVAR reactor	PSEG (100%) PSEG (100%)
b2704	at Bergen 230 kV Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

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Required 118	ansimission Emiancements Anni	iai Kevenue Kequitemeni	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)

Required Tra	ansmission Enhancements Annu	ual Revenue Requireme	nt Responsible Customer(s)
	Convert the R-1318 and		
b2835	Q1317 (Edison –		See sub-IDs for cost allocations
	Metuchen) 138 kV circuits		See sub-IDs for cost anocations
	to one 230 kV circuit		
	Conver the R-1318 and Q-		
	1317 (Edison – Metuchen)		
b2835.1	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Brunswick –		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.2	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Meadow Road -		
	Pierson Ave)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.3	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
	kV circuit (Pierson Ave -		
	Metuchen)		
	Convert the N-1340 and T-		
b2836	1372/D-1330 (Brunswick –		See sub-IDs for cost allocations
02830	Trenton) 138 kV circuits to		See sub-IDs for cost anocations
	230 kV circuits		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.1	Trenton) 138 kV circuits to		PSEG (100%)
	230 kV circuits (Brunswick		
	- Hunterglen)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.2	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Hunterglen		
	- Trenton)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Brunswick		
	- Devils Brook)		
	Convert the N-1340 and T-		
b2836.4	1372/D-1330 (Brunswick -		
	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Devils		
	Brook - Trenton)		

Required 1r	ansmission Enhancements Annu	ual Revenue Requireme	nt Responsible Customer(s)
	Convert the F-1358/Z1326		
b2837	and K1363/Y-1325		
	(Trenton – Burlington) 138		See sub-IDs for cost allocations
	kV circuits to 230 kV		
	circuits		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2027 1	(Trenton - Burlington) 138		NEDELINE (1000/)
b2837.1	kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Trenton - Yardville		
	K)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2027 2	(Trenton - Burlington) 138		NEDELINE (1000/)
b2837.2	kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Yardville - Ward		
	Ave K)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2837.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Brunswick		,
	- Devils Brook)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1-2027 4	(Trenton - Burlington) 138		NEPTUNE (7.65%) / PSEG
b2837.4	kV circuits to 230 kV		(88.71%) / RECO (3.64%)
	circuits (Crosswicks -		
	Bustleton Y)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.5	(Trenton - Burlington) 138		NEPTUNE (6.18%) / PSEG
02037.3	kV circuits to 230 kV		(90.12%) / RECO (3.70%)
	circuits (Bustleton -		
	Burlington Y)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.6	(Trenton - Burlington) 138		NEDTLINE (1000/)
	kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Trenton - Yardville		
	F)		

Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave F)	required 112	insmission Enhancements Annu	iai Kevenue Kequiremen	it Responsible Customer(s)
b2837.7 (Trenton - Burlington) 138				
kV circuits to 230 kV circuits (Yardville - Ward Ave F)				
kV circuits to 230 kV circuits (Yardville - Ward	b2837.7	`		NEPTLINE (100%)
Ave F) Convert the F-1358/Z-1326	02037.7			11L1 1 C11L (10070)
Convert the F-1358/Z-1326		circuits (Yardville - Ward		
b2837.8 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Ward Ave -		Ave F)		
b2837.8 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Ward Ave -		Convert the F-1358/Z-1326		
kV circuits to 230 kV circuits (Ward Ave -		and K-1363/Y-1325		
circuits (Ward Ave -	L2027 0	(Trenton - Burlington) 138		NIEDTLINIE (1000/)
` I	02837.8	kV circuits to 230 kV		NEPTUNE (100%)
Crosswicks Z)		circuits (Ward Ave -		
		Crosswicks Z)		
Convert the F-1358/Z-1326		Convert the F-1358/Z-1326		
and K-1363/Y-1325		and K-1363/Y-1325		
(Trenton - Burlington) 138 NEPTUNE (9.14%) / PSEG	1.0027.0	(Trenton - Burlington) 138		NEPTUNE (9.14%) / PSEG
b2837.9 (Teltion - Burnington) 138 (12 1 ONE (5.14%) / 13EG (87.28%) / RECO (3.58%)	62837.9	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
circuits (Crosswicks -		circuits (Crosswicks -		
Williams Z)				
Convert the F-1358/Z-1326		Convert the F-1358/Z-1326		
and K-1363/Y-1325		and K-1363/Y-1325		
NEPTUNE (7.50%) / PSEG	1 2027 10	(Trenton - Burlington) 138		NEPTUNE (7.50%) / PSEG
b2837.10 (Teltion - Burnington) 138	62837.10			` ,
circuits (Williams -				(,
Bustleton Z)		· ·		
Convert the F-1358/Z-1326				
and K-1363/Y-1325				
(Trenton - Burlington) 138 NEPTLINE (5.80%) / PSEG	1 2027 11			NEPTUNE (5.89%) / PSEG
b2837.11 kV circuits to 230 kV (90.40%) / RECO (3.71%)	b2837.11	,		` ,
circuits (Bustleton -				, (,
Burlington Z)		`		

Version: 15.1.0

Effective Date: November 23, 2017

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{**}East Coast Power, L.L.C.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 ECP (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 ECP (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 ECP (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

Annual Revenue Requirement Required Transmission Enhancements Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion Convert the Bergen – (12.39%) / DPL (2.62%) / Marion 138 kV path to ECP** (0.20%) / EKPC (1.82%) / double circuit 345 kV and b2436.10 HTP*** (0.20%) / JCPL (3.78%) associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** ECP (89.85%) / HTP (2.18%) / PSEG (7.66%) / RE (0.31%) **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Convert the Marion -ECP** (0.20%) / EKPC (1.82%) / Bayonne "L" 138 kV HTP*** (0.20%) / JCPL (3.78%) b2436.21 circuit to 345 kV and any associated substation / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (99.40%) / ECP** (0.60%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

required 110	Required Transmission Emancements Annual Revenue Requirement Responsible Customer(s)			
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)		
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.30%) / HTP (99.70%)		
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	ECP (0.33%) / HTP (99.67%)		

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North HTP*** (99.44%) / ECP** Ave - Airport 345 kV b2436.50 circuit and any associated (0.56%)substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit HTP*** (99.84%) / ECP** b2436.60 to Bayway, convert it to (0.16%)345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit HTP*** (99.92%) / ECP** b2436.70 and any associated (0.08%)substation upgrades **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / Relocate the overhead ECP** (0.20%) / EKPC (1.82%) / portion of Linden - North HTP*** (0.20%) / JCPL (3.78%) Ave "T" 138 kV circuit to b2436.81 / ME (1.87%) / NEPTUNE* Bayway, convert it to 345 kV, and any associated (0.42%) / PECO (5.30%) / substation upgrades PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** HTP*** (7.57%) / ECP** (0.02%) / PSEG (88.90%) / RE (3.51%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.70%) / AEP (14.25%) /
		APS (5.53%) / ATSI (8.09%) /
		BGE (4.19%) / ComEd (13.43%)
		/ Dayton (2.12%) / DEOK
		(3.37%) / DL (1.77%) / Dominion
	Convert the Bayway -	(12.39%) / DPL (2.62%) /
	Linden "Z" 138 kV circuit	ECP** (0.20%) / EKPC (1.82%) /
b2436.83	to 345 kV and any	HTP*** (0.20%) / JCPL (3.78%)
02430.03	associated substation	/ ME (1.87%) / NEPTUNE*
	upgrades	(0.42%) / PECO (5.30%) /
	upgrades	PENELEC (1.84%) / PEPCO
		(4.18%) / PPL (4.46%) / PSEG
		(6.22%) / RE (0.25%)
		DFAX Allocation:
		HTP*** (7.56%) / ECP**
		(0.02%) / PSEG (88.91%) / RE
		(3.51%)
	Convert the Bayway – Linden "W" 138 kV	Load-Ratio Share Allocation:
		AEC (1.70%) / AEP (14.25%) /
		APS (5.53%) / ATSI (8.09%) /
		BGE (4.19%) / ComEd (13.43%)
		/ Dayton (2.12%) / DEOK
		(3.37%) / DL (1.77%) / Dominion
		(12.39%) / DPL (2.62%) /
b2436.84		ECP** (0.20%) / EKPC (1.82%) /
02430.84	circuit to 345 kV and any associated substation	HTP*** (0.20%) / JCPL (3.78%)
		/ ME (1.87%) / NEPTUNE*
	upgrades	(0.42%) / PECO (5.30%) /
		PENELEC (1.84%) / PEPCO
		(4.18%) / PPL (4.46%) / PSEG
		(6.22%) / RE (0.25%)
		DFAX Allocation:
		ECP (0.02%) / HTP (99.98%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATS1 (8.09%) / BGE (4.19%) / ComEd (13.43%) Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) b2436.85	Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) KV and any associated substation upgrades Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades Relocate Farragut - HUGSON / EXPC (1.82%) / HTP**** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and			
APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)			
BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DBOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) associated substation upgrades HTP*** (0.20%) / JCPL (3.78%) / PENELEC (1.84%) / PECO (5.30%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / BCP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / EKPC (1.82%) / FEPC (3.37%) / DL (1.77%) / DEPC (3.78%) / ME (1.87%) / ME (1.87%) / ME (1.87%) / PEPC (3.37%) / DECP** (0.20%) / EKPC (1.82%) / PEPC (3.37%) / DECP** (0.20%) / EKPC (1.82%) / PEPC (3.37%) / DECP** (0.20%) / EKPC (1.82%) / PEPC (3.37%) / DECP** (0.20%) / EKPC (1.82%) / PEPC (3.37%) / DECP** (0.20%) / EKPC (3.37%) / DECP** (0.20%) / EKPC (3.37%) / DECP** (0.25%) / ECP**			
Convert the Bayway - Linden "M" 138 kV ECP** (0.20%) / EKPC (1.82%) / PECP** (0.20%) / EKPC (1.82%) / PECP** (0.20%) / EVPC (3.37%) / DEC (3.37%) / DEC (3.78%) / ECP** (0.20%) / EVPC (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (3.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / HTP (99.98%)			, , , , , , , , , , , , , , , , , , ,
Convert the Bayway - Linden "M" 138 kV ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / DEOK (3.37%) / DEOK (` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades Convert the Bayway - HTP*** (0.20%) / ECP** (0.20%) / JCPL (3.78%) / HTP**** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / HTP (99.98%)			
Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades		Convert the Bayway –	· · · · · · · · · · · · · · · · · · ·
Associated substation upgrades			ECP** (0.20%) / EKPC (1.82%) /
Associated substation upgrades	b2436.85	circuit to 345 kV and any	HTP*** (0.20%) / JCPL (3.78%)
PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / HTP (99.98%) Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / JCPL (3.78%) KV and any associated substation upgrades Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)		_	/ ME (1.87%) / NEPTUNE*
PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: ECP (0.02%) / HTP (99.98%)		upgrades	(0.42%) / PECO (5.30%) /
Co.22%) / RE (0.25%) DFAX Allocation:			PENELEC (1.84%) / PEPCO
DFAX Allocation: ECP (0.02%) / HTP (99.98%)			(4.18%) / PPL (4.46%) / PSEG
ECP (0.02%) / HTP (99.98%) Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / JCPL (3.78%) kV and any associated substation upgrades ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			(6.22%) / RE (0.25%)
Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / JCPL (3.78%) KV circuits to Marion 345 kV and any associated substation upgrades (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			DFAX Allocation:
AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)			ECP (0.02%) / HTP (99.98%)
AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)			
APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)		_	Load-Ratio Share Allocation:
BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / JCPL (3.78%) HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%) PSEG (100%)			AEC (1.70%) / AEP (14.25%) /
Relocate Farragut - Hudson "B" and "C" 345 ECP** (0.20%) / DPL (2.62%) / b2436.90 ECP** (0.20%) / EKPC (1.82%) / kV and any associated substation upgrades Substation upgrades ECP** (0.20%) / PECO (5.30%) / b2436.91 Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%) c			APS (5.53%) / ATSI (8.09%) /
Relocate Farragut - (12.39%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / ECP** (0.20%) / JCPL (3.78%) KV circuits to Marion 345 kV and any associated substation upgrades (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			BGE (4.19%) / ComEd (13.43%)
Relocate Farragut - Hudson "B" and "C" 345 ECP** (0.20%) / EKPC (1.82%) / b2436.90 kV circuits to Marion 345 kV and any associated substation upgrades (0.42%) / PECO (5.30%) / FENELEC (1.84%) / PECO (5.30%) / PENELEC (1.84%) / PECO (4.18%) / PECO (4.18%) / PECO (4.18%) / PEGO (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			/ Dayton (2.12%) / DEOK
Hudson "B" and "C" 345 ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%)			(3.37%) / DL (1.77%) / Dominion
b2436.90 kV circuits to Marion 345 kV and any associated substation upgrades KV circuits to Marion 345 kV and any associated substation upgrades HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			(12.39%) / DPL (2.62%) /
kV and any associated substation upgrades			ECP** (0.20%) / EKPC (1.82%) /
Substation upgrades (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)	b2436.90	kV circuits to Marion 345	HTP*** (0.20%) / JCPL (3.78%)
PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and		kV and any associated	/ ME (1.87%) / NEPTUNE*
(4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%) PSEG (100%)		substation upgrades	(0.42%) / PECO (5.30%) /
(6.22%) / RE (0.25%) DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			PENELEC (1.84%) / PEPCO
BFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			(4.18%) / PPL (4.46%) / PSEG
HTP (5.83%) / PSEG (90.60%) / RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			(6.22%) / RE (0.25%)
RE (3.57%) Relocate the Hudson 2 generation to inject into the 345 kV at Marion and RE (3.57%) PSEG (100%)			DFAX Allocation:
Belocate the Hudson 2 generation to inject into the 345 kV at Marion and PSEG (100%)			HTP (5.83%) / PSEG (90.60%) /
b2436.91 generation to inject into the 345 kV at Marion and PSEG (100%)			RE (3.57%)
the 345 kV at Marion and PSEG (100%)		Relocate the Hudson 2	
the 345 kV at Marion and PSEG (100%)	b2426.01	generation to inject into	DCEC (1000/)
any associated upgrades	b2436.91		PSEG (100%)
		any associated upgrades	

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

b2437.10	New Bergen 345/230 kV transformer and any associated substation	HTP*** (1.99%) / ECP** (92.41%) / PSEG (5.38%) / RE
	upgrades	(0.22%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades	ECP (72.43%) / HTP*** (27.57%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades	ECP (0.35%) / HTP (3.28%) / PSEG (92.71%) / RE (3.66%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades	ECP (0.17%) / HTP (2.92%) / PSEG (93.23%) / RE (3.68%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades	HTP*** (10.53%) / ECP** (0.25%) / Neptune (0.05%) / PSEG (85.78%) / RE (3.39%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades	PSEG (100%)
b2438	Install two reactors at Tosco 230 kV	PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA	PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA	PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station	PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required 11	Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)			
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		

		 icht Responsible Customer(s)
b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%)
	Install a 100 MVAR reactor	PSEG (100%)
b2703	at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required 11	ansmission Enhancements Anni	aal Revenue Requiremer	it Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		See sub-IDs for cost allocations

Required 11	ansmission Enhancements Annu	ial Revenue Requireme	ent Responsible Customer(s)
	Conver the R-1318 and Q-		
	1317 (Edison – Metuchen)		
b2835.1	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Brunswick –		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.2	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Meadow Road -		
	Pierson Ave)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.3	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
	kV circuit (Pierson Ave -		, , , , ,
	Metuchen)		
	Convert the N-1340 and T-		
1.2026	1372/D-1330 (Brunswick –		
b2836	Trenton) 138 kV circuits to		See sub-IDs for cost allocations
	230 kV circuits		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.1	Trenton) 138 kV circuits to		PSEG (100%)
	230 kV circuits (Brunswick		- 2 = 5 (2 3 3 7 3 7
	- Hunterglen)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.2	Trenton) 138 kV circuits to		NEPTUNE (100%)
0200012	230 kV circuits (Hunterglen		1,21 1 01,2 (100,0)
	- Trenton)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
02030.3	230 kV circuits (Brunswick		1(21 101(2 (100/0)
	- Devils Brook)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.4	Trenton) 138 kV circuits to		NEPTUNE (100%)
02030.4	230 kV circuits (Devils		1121 10112 (10070)
	Brook - Trenton)		
	DIOOK - ITCHIOH)		

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)				
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		See sub-IDs for cost allocations	
b2837.1	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		NEPTUNE (100%)	
b2837.2	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		NEPTUNE (100%)	
b2837.3	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		NEPTUNE (100%)	
b2837.4	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		NEPTUNE (7.65%) / PSEG (88.71%) / RECO (3.64%)	
b2837.5	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		NEPTUNE (6.18%) / PSEG (90.12%) / RECO (3.70%)	
b2837.6	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		NEPTUNE (100%)	

Required 1 ra	ansmission Enhancements Annu	ual Revenue Requiremen	nt Responsible Customer(s)
b2837.7	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		NEPTUNE (100%)
	(Trenton - Burlington) 138		
	kV circuits to 230 kV		
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		NEPTUNE (100%)
b2837.8	and K-1363/Y-1325		
	(Trenton - Burlington) 138		
	kV circuits to 230 kV		
	circuits (Ward Ave -		
	Crosswicks Z)		
b2837.9	Convert the F-1358/Z-1326		NEPTUNE (9.14%) / PSEG (87.28%) / RECO (3.58%)
	and K-1363/Y-1325		
	(Trenton - Burlington) 138		
	kV circuits to 230 kV		
	circuits (Crosswicks -		
	Williams Z)		
	Convert the F-1358/Z-1326		NEPTUNE (7.50%) / PSEG (88.85%) / RECO (3.65%)
	and K-1363/Y-1325		
b2837.10	(Trenton - Burlington) 138		
02037.10	kV circuits to 230 kV		
	circuits (Williams -		
	Bustleton Z)		
	Convert the F-1358/Z-1326		NEPTUNE (5.89%) / PSEG (90.40%) / RECO (3.71%)
	and K-1363/Y-1325		
b2837.11	(Trenton - Burlington) 138		
02037.11	kV circuits to 230 kV		
	circuits (Bustleton -		
	Burlington Z)		
	Build new 138/26 kV		PSEG (100%)
	Newark GIS station in a		
b2870	building (layout #1A)		
	located adjacent to the		
	existing Newark Switch and		
	demolish the existing		
	Newark Switch		

Version: 15.1.4

Effective Date: January 1, 2018

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of overhead line from Edison b2218 PSEG (100%) - Meadow Rd - Metuchen (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at PSEG (100%) b2421.2 **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bergen – (2.50%) / Dominion (12.86%) / Marion 138 kV path to EKPC (1.87%) / JCPL (3.74%) / b2436.10 double circuit 345 kV and ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Marion -Bayonne "L" 138 kV (2.50%) / Dominion (12.86%) / b2436.21 circuit to 345 kV and any EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Emancements Affilia Revenue Requirement Responsible Customer(s)				
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)		
b2436.33 b2436.34	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%) PSEG (100%)		

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North Ave - Airport 345 kV b2436.50 PSEG (100%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit b2436.60 to Bayway, convert it to PSEG (96.13%) / RE (3.87%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit b2436.70 PSEG (100%) and any associated substation upgrades **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK Relocate the overhead (3.29%) / DL (1.75%) / DPL portion of Linden - North (2.50%) / Dominion (12.86%) / Ave "T" 138 kV circuit to b2436.81 EKPC (1.87%) / JCPL (3.74%) / Bayway, convert it to 345 ME (1.90%) / NEPTUNE* kV, and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Required Tra	ansmission Enhancements A	Annual Revenue Requiren	1
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%) /
			APS (5.73%) / ATSI (7.88%) /
			BGE (4.22%) / ComEd (13.31%)
			/ Dayton (2.11%) / DEOK
	Convert the Bayway -		(3.29%) / DL (1.75%) / DPL
	Linden "Z" 138 kV circuit		(2.50%) / Dominion (12.86%) /
b2436.83	to 345 kV and any		EKPC (1.87%) / JCPL (3.74%) /
	associated substation		ME (1.90%) / NEPTUNE*
	upgrades		(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			PSEG (96.13%) / RE (3.87%)
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%) /
			APS (5.73%) / ATSI (7.88%) /
			BGE (4.22%) / ComEd (13.31%)
			/ Dayton (2.11%) / DEOK
			(3.29%) / DL (1.75%) / DPL
	Convert the Bayway –		(2.50%) / Dominion (12.86%) /
1242504	Linden "W" 138 kV		EKPC (1.87%) / JCPL (3.74%) /
b2436.84	circuit to 345 kV and any		ME (1.90%) / NEPTUNE*
	associated substation		(0.44%) / PECO (5.34%) /
	upgrades		PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
		_	DEAV Allacations
			DFAX Allocation:
			PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -(2.50%) / Dominion (12.86%) / Linden "M" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.85 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Relocate Farragut -(2.50%) / Dominion (12.86%) / Hudson "B" and "C" 345 EKPC (1.87%) / JCPL (3.74%) / b2436.90 kV circuits to Marion 345 ME (1.90%) / NEPTUNE* kV and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

Required 11	ansinission Enhancements Am	iuai Revenue Requireme	ent Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades		PSEG (100%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		PSEG (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

required 110	distrission Emalcements Am	iuai Revenue Requirement Responsible Customer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

^{*}Neptune Regional Transmission System, LLC

b2633.91 b2633.92	Implement changes to the tap settings for the two Salem units' step up transformers Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%) AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required 11	ansmission Enhancements Annu	iai Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		See sub-IDs for cost allocations

Required 11	ansmission Enhancements Annu	ial Revenue Requireme	ent Responsible Customer(s)
	Conver the R-1318 and Q-		
	1317 (Edison – Metuchen)		
b2835.1	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Brunswick –		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.2	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Meadow Road -		
	Pierson Ave)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.3	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
	kV circuit (Pierson Ave -		, , , , ,
	Metuchen)		
	Convert the N-1340 and T-		
1.2026	1372/D-1330 (Brunswick –		
b2836	Trenton) 138 kV circuits to		See sub-IDs for cost allocations
	230 kV circuits		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.1	Trenton) 138 kV circuits to		PSEG (100%)
	230 kV circuits (Brunswick		` ,
	- Hunterglen)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.2	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Hunterglen		,
	- Trenton)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Brunswick		` '
	- Devils Brook)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.4	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Devils		` '
	Brook - Trenton)		
L		i	

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)			
	Convert the F-1358/Z1326		
b2837	and K1363/Y-1325		
	(Trenton – Burlington) 138	See sub-IDs for cost allocations	
	kV circuits to 230 kV		
	circuits		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2027 1	(Trenton - Burlington) 138	NEDELINE (1000())	
b2837.1	kV circuits to 230 kV	NEPTUNE (100%)	
	circuits (Trenton - Yardville		
	(K)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2027 2	(Trenton - Burlington) 138	NEDELINE (1000())	
b2837.2	kV circuits to 230 kV	NEPTUNE (100%)	
	circuits (Yardville - Ward		
	Ave K)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2837.3	Trenton) 138 kV circuits to	NEPTUNE (100%)	
	230 kV circuits (Brunswick		
	- Devils Brook)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1-2027 4	(Trenton - Burlington) 138	NEPTUNE (7.65%) / PSEG	
b2837.4	kV circuits to 230 kV	(88.71%) / RECO (3.64%)	
	circuits (Crosswicks -		
	Bustleton Y)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2027 5	(Trenton - Burlington) 138	NEPTUNE (6.18%) / PSEG	
b2837.5	kV circuits to 230 kV	(90.12%) / RECO (3.70%)	
	circuits (Bustleton -		
	Burlington Y)		
b2837.6	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
	(Trenton - Burlington) 138	NEDTINE (1000/)	
	kV circuits to 230 kV	NEPTUNE (100%)	
	circuits (Trenton - Yardville		
	F)		

	uai Kevenue Requireme	nt Responsible Customer(s)
Convert the F-1358/Z-1326 and K-1363/Y-1325		
		NEPTUNE (100%)
Ave F)		
Convert the F-1358/Z-1326		
and K-1363/Y-1325		
(Trenton - Burlington) 138		NEPTUNE (100%)
kV circuits to 230 kV		NEFI ONE (100%)
circuits (Ward Ave -		
Crosswicks Z)		
,		NEPTUNE (9.14%) / PSEG
		(87.28%) / RECO (3.58%)
,		
,		NEPTUNE (7.50%) / PSEG
		(88.85%) / RECO (3.65%)
*		
,		
		NIEDTLINE (5 000/) / DCEC
		NEPTUNE (5.89%) / PSEG
		(90.40%) / RECO (3.71%)
· ·		
<u> </u>		
		PSEG (100%)
		1523 (10070)
	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave F) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Ward Ave -	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave F) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Ward Ave - Crosswicks Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Williams Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits (Bustleton - Burlington Z) Build new 138/26 kV Newark GIS station in a building (layout #1A) located adjacent to the existing Newark Switch and

Version: 16.2.0

Effective Date: February 15, 2018

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of overhead line from Edison b2218 PSEG (100%) - Meadow Rd - Metuchen (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at PSEG (100%) b2421.2 **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bergen – (2.50%) / Dominion (12.86%) / Marion 138 kV path to EKPC (1.87%) / JCPL (3.74%) / b2436.10 double circuit 345 kV and ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Marion -Bayonne "L" 138 kV (2.50%) / Dominion (12.86%) / b2436.21 circuit to 345 kV and any EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Eminancements Annual Revenue Requirement Responsible Customer(s)			
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)	
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)	
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)	

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North Ave - Airport 345 kV b2436.50 PSEG (100%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit b2436.60 to Bayway, convert it to PSEG (96.13%) / RE (3.87%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit b2436.70 PSEG (100%) and any associated substation upgrades **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK Relocate the overhead (3.29%) / DL (1.75%) / DPL portion of Linden - North (2.50%) / Dominion (12.86%) / Ave "T" 138 kV circuit to b2436.81 EKPC (1.87%) / JCPL (3.74%) / Bayway, convert it to 345 ME (1.90%) / NEPTUNE* kV, and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -Linden "Z" 138 kV circuit (2.50%) / Dominion (12.86%) / b2436.83 to 345 kV and any EKPC (1.87%) / JCPL (3.74%) / associated substation ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway – (2.50%) / Dominion (12.86%) / Linden "W" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.84 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -(2.50%) / Dominion (12.86%) / Linden "M" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.85 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Relocate Farragut -(2.50%) / Dominion (12.86%) / Hudson "B" and "C" 345 EKPC (1.87%) / JCPL (3.74%) / b2436.90 kV circuits to Marion 345 ME (1.90%) / NEPTUNE* kV and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

Required 11	ansmission Emancements Am	iuai Revenue Requireme	ent Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades		PSEG (100%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		PSEG (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required 11	ansmission Ennancements Ann	nual Revenue Requirement Responsible Customer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
	Creek 230 kV substation	
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation:
		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Emancements Affindar Revenue Requirement Responsible Customer(s)				
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)		
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)		
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)		
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)		
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)		
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)		

^{*}Neptune Regional Transmission System, LLC

Required 11	ansmission Enhancements Annu	iai Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		See sub-IDs for cost allocations

Required Tra	ansmission Enhancements Annu	ual Revenue Requireme	ent Responsible Customer(s)
	Conver the R-1318 and Q-		
	1317 (Edison – Metuchen)		
b2835.1	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Brunswick –		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.2	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Meadow Road -		` ,
	Pierson Ave)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.3	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
	kV circuit (Pierson Ave -		, , , , , ,
	Metuchen)		
	Convert the N-1340 and T-		
1.2026	1372/D-1330 (Brunswick –	See sub-IDs for cost allo	
b2836	Trenton) 138 kV circuits to		See sub-IDs for cost allocations
	230 kV circuits		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.1	Trenton) 138 kV circuits to		PSEG (100%)
	230 kV circuits (Brunswick		
	- Hunterglen)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.2	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Hunterglen		
	- Trenton)		
	Convert the N-1340 and T-		
b2836.3	1372/D-1330 (Brunswick -		
	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Brunswick		(
	- Devils Brook)		
	Convert the N-1340 and T-		
b2836.4	1372/D-1330 (Brunswick -		
	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Devils		(= 0 · · · ·)
	Brook - Trenton)		
1		ı	

Required 11	ansmission Enhancements Annu	ual Revenue Requireme	ent Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138		See sub-IDs for cost allocations
	kV circuits to 230 kV circuits		See suo 125 foi esse unocurionis
	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Tranton Purlington) 138		
b2837.1	(Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville		NEPTUNE (100%)
	K) Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.2	(Trenton - Burlington) 138 kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Yardville - Ward		
	Ave K) Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2837.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Brunswick - Devils Brook)		
	Convert the F-1358/Z-1326		
1 2027 4	and K-1363/Y-1325 (Trenton - Burlington) 138		NEPTUNE (7.65%) / PSEG
b2837.4	kV circuits to 230 kV		(88.71%) / RECO (3.64%)
	circuits (Crosswicks - Bustleton Y)		
	Convert the F-1358/Z-1326		
b2837.5	and K-1363/Y-1325 (Trenton - Burlington) 138		NEPTUNE (6.18%) / PSEG
	kV circuits to 230 kV		(90.12%) / RECO (3.70%)
	circuits (Bustleton - Burlington Y)		
b2837.6	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
	(Trenton - Burlington) 138 kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Trenton - Yardville		
	F)		

Required 113	ansmission Enhancements Ann	ual Revenue Requiremen	nt Responsible Customer(s)
b2837.7	Convert the F-1358/Z-1326 and K-1363/Y-1325		
	(Trenton - Burlington) 138		NEPTUNE (100%)
0200717	kV circuits to 230 kV		1,21101,2 (100,0)
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.8	(Trenton - Burlington) 138		NEPTUNE (100%)
02037.0	kV circuits to 230 kV		NEI TONE (100%)
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.9	(Trenton - Burlington) 138		NEPTUNE (9.14%) / PSEG
02837.9	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		
	Williams Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.10	(Trenton - Burlington) 138		NEPTUNE (7.50%) / PSEG
02837.10	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.11	(Trenton - Burlington) 138		NEPTUNE (5.89%) / PSEG
02837.11	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		
	Burlington Z)		
b2870	Build new 138/26 kV		
	Newark GIS station in a		
	building (layout #1A)		
	located adjacent to the		PSEG (100%)
	existing Newark Switch and		` ,
	demolish the existing		
	Newark Switch		

required 11		iai Revenue Requiremen	nt Responsible Customer(s)
b2933	Third Source for Springfield Rd. and Stanley Terrace Stations		See sub-IDs for cost allocations
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.31	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		NEPTUNE (100%)
b2933.32	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		PSEG (100%)
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)
b2935.3	Convert Runnemede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemede 69 kV		PSEG (100%)

Version: 17.1.0

Effective Date: April 5, 2018

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 4 miles of overhead line from Edison b2218 PSEG (100%) - Meadow Rd - Metuchen (Q 1317) 50 MVAR reactor at b2239 PSEG (100%) Saddlebrook 230 kV 50 MVAR reactor at b2240 PSEG (100%) Athenia 230 kV 50 MVAR reactor at b2241 PSEG (100%) Bergen 230 kV 50 MVAR reactor at b2242 PSEG (100%) Hudson 230 kV Two 50 MVAR reactors at b2243 PSEG (100%) Stanley Terrace 230 kV 50 MVAR reactor at West b2244 PSEG (100%) Orange 230 kV 50 MVAR reactor at b2245 PSEG (100%) Aldene 230 kV 150 MVAR reactor at b2246 PSEG (100%) Camden 230 kV 150 MVAR reactor at b2247 PSEG (100%) Gloucester 230 kV 50 MVAR reactor at b2248 PSEG (100%) Clarksville 230 kV 50 MVAR reactor at b2249 PSEG (100%) Hinchmans 230 kV 50 MVAR reactor at b2250 PSEG (100%) Beaverbrook 230 kV 50 MVAR reactor at Cox's b2251 PSEG (100%) Corner 230 kV

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at PSEG (100%) b2421.2 **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bergen – (2.50%) / Dominion (12.86%) / Marion 138 kV path to EKPC (1.87%) / JCPL (3.74%) / b2436.10 double circuit 345 kV and ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Marion -Bayonne "L" 138 kV (2.50%) / Dominion (12.86%) / b2436.21 circuit to 345 kV and any EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

required transmission Emancements Tunida revenue requirement Responsible Customer(s)				
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)		
		PSEG (100%)		
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)		
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)		

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North Ave - Airport 345 kV b2436.50 PSEG (100%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit b2436.60 to Bayway, convert it to PSEG (96.13%) / RE (3.87%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit b2436.70 PSEG (100%) and any associated substation upgrades **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK Relocate the overhead (3.29%) / DL (1.75%) / DPL portion of Linden - North (2.50%) / Dominion (12.86%) / Ave "T" 138 kV circuit to b2436.81 EKPC (1.87%) / JCPL (3.74%) / Bayway, convert it to 345 ME (1.90%) / NEPTUNE* kV, and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Required Tra	ansmission Enhancements A	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.66%) / AEP (14.16%) /
		APS (5.73%) / ATSI (7.88%) /
		BGE (4.22%) / ComEd (13.31%)
		/ Dayton (2.11%) / DEOK
	Convert the Bayway -	(3.29%) / DL (1.75%) / DPL
	Linden "Z" 138 kV circuit	(2.50%) / Dominion (12.86%) /
b2436.83	to 345 kV and any	EKPC (1.87%) / JCPL (3.74%) /
	associated substation	ME (1.90%) / NEPTUNE*
	upgrades	(0.44%) / PECO (5.34%) /
		PENELEC (1.89%) / PEPCO
		(3.99%) / PPL (4.84%) / PSEG
		(6.26%) / RE (0.26%)
		DFAX Allocation:
		PSEG (96.13%) / RE (3.87%)
		Load-Ratio Share Allocation:
		AEC (1.66%) / AEP (14.16%) /
		APS (5.73%) / ATSI (7.88%) /
		BGE (4.22%) / ComEd (13.31%)
		/ Dayton (2.11%) / DEOK
	Convert the Bayway – Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades	(3.29%) / DL (1.75%) / DPL
		(2.50%) / Dominion (12.86%) /
		EKPC (1.87%) / JCPL (3.74%) /
b2436.84		ME (1.90%) / NEPTUNE*
		(0.44%) / PECO (5.34%) /
		PENELEC (1.89%) / PEPCO
		(3.99%) / PPL (4.84%) / PSEG
		(6.26%) / RE (0.26%)
		DFAX Allocation:
		PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -(2.50%) / Dominion (12.86%) / Linden "M" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.85 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Relocate Farragut -(2.50%) / Dominion (12.86%) / Hudson "B" and "C" 345 EKPC (1.87%) / JCPL (3.74%) / b2436.90 kV circuits to Marion 345 ME (1.90%) / NEPTUNE* kV and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

required 11		idal Revenue Requirement - Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades	PSEG (96.13%) / RE (3.87%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades	PSEG (100%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades	PSEG (96.13%) / RE (3.87%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades	PSEG (96.13%) / RE (3.87%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades	PSEG (96.13%) / RE (3.87%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades	PSEG (100%)
b2438	Install two reactors at Tosco 230 kV	PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA	PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA	PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station	PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Add a new 500 kV bay at

Hope Creek (Expansion of

Hope Creek substation)

b2633.4

Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC Install an SVC at New (1.87%) / JCPL (3.74%) / ME b2633.3 Freedom 500 kV (1.90%) / NEPTUNE* (0.44%) / substation PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)**DFAX** Allocation: AEC (0.01%) / DPL (99.98%) /

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

JCPL (0.01%)

DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
	Creek 230 kV substation	3612 (6.6176)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation:
		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

^{*}Neptune Regional Transmission System, LLC

Required 11		iai Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required 11	ansmission Enhancements Annu	iai Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		See sub-IDs for cost allocations

Required 11	ansmission Enhancements Annu	ial Revenue Requireme	ent Responsible Customer(s)
	Conver the R-1318 and Q-		
	1317 (Edison – Metuchen)		
b2835.1	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Brunswick –		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.2	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Meadow Road -		
	Pierson Ave)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.3	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
	kV circuit (Pierson Ave -		, , , , ,
	Metuchen)		
	Convert the N-1340 and T-		
1.2026	1372/D-1330 (Brunswick –		
b2836	Trenton) 138 kV circuits to		See sub-IDs for cost allocations
	230 kV circuits		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.1	Trenton) 138 kV circuits to		PSEG (100%)
	230 kV circuits (Brunswick		` ,
	- Hunterglen)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.2	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Hunterglen		,
	- Trenton)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Brunswick		` '
	- Devils Brook)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.4	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Devils		` ,
	Brook - Trenton)		
L	ı /		

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)			
	Convert the F-1358/Z1326		
	and K1363/Y-1325		
b2837	(Trenton – Burlington) 138	See sub-IDs for cost allocation	ıs
	kV circuits to 230 kV		
	circuits		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1.0005.4	(Trenton - Burlington) 138	NEDEN H. (1000)	
b2837.1	kV circuits to 230 kV	NEPTUNE (100%)	
	circuits (Trenton - Yardville		
	(K)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2005 2	(Trenton - Burlington) 138	NEDEN H. (1000)	
b2837.2	kV circuits to 230 kV	NEPTUNE (100%)	
	circuits (Yardville - Ward		
	Ave K)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2837.3	Trenton) 138 kV circuits to	NEPTUNE (100%)	
	230 kV circuits (Brunswick	, ,	
	- Devils Brook)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1.0007.4	(Trenton - Burlington) 138	NEPTUNE (7.65%) / PSEG	
b2837.4	kV circuits to 230 kV	(88.71%) / RECO (3.64%)	
	circuits (Crosswicks -		
	Bustleton Y)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
h2027 5	(Trenton - Burlington) 138	NEPTUNE (6.18%) / PSEG	
b2837.5	kV circuits to 230 kV	(90.12%) / RECO (3.70%)	
	circuits (Bustleton -		
	Burlington Y)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.6	(Trenton - Burlington) 138	NIEDTINIE (1000/)	
	kV circuits to 230 kV	NEPTUNE (100%)	
	circuits (Trenton - Yardville		
	F)		

Required Tra	ansmission Enhancements Annu	ual Revenue Requiremen	nt Responsible Customer(s)
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.7	(Trenton - Burlington) 138		NEPTUNE (100%)
02037.7	kV circuits to 230 kV		NEFTONE (100%)
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.8	(Trenton - Burlington) 138		NEDTLINE (1000/)
02837.8	kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.9	(Trenton - Burlington) 138		NEPTUNE (9.14%) / PSEG
02837.9	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		
	Williams Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.10	(Trenton - Burlington) 138		NEPTUNE (7.50%) / PSEG
02037.10	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.11	(Trenton - Burlington) 138		NEPTUNE (5.89%) / PSEG
02037.11	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		
	Burlington Z)		
	Build new 138/26 kV		
	Newark GIS station in a		
	building (layout #1A)		
b2870	located adjacent to the		PSEG (100%)
	existing Newark Switch and		
	demolish the existing		
	Newark Switch		

Required 11		iai Revenue Requiremen	nt Responsible Customer(s)
b2933	Third Source for Springfield Rd. and Stanley Terrace Stations		See sub-IDs for cost allocations
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.31	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		NEPTUNE (100%)
b2933.32	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		PSEG (100%)
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)
b2935.3	Convert Runnemede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemede 69 kV		PSEG (100%)

b2955	Wreck and rebuild the VFT - Warinanco - Aldene 230 kV circuit with paired	•	JCPL (93.78%) / NEPTUNE* (6.22%)
b2956	conductor Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable		JCPL (0.05%) / NEPTUNE* (0.01%) / PSEG (96.07%) / RE (3.87%)

Version: 18.1.0

Effective Date: June 14, 2018

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		PSEG (100%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at PSEG (100%) b2421.2 **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bergen – (2.50%) / Dominion (12.86%) / Marion 138 kV path to EKPC (1.87%) / JCPL (3.74%) / b2436.10 double circuit 345 kV and ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Marion -Bayonne "L" 138 kV (2.50%) / Dominion (12.86%) / b2436.21 circuit to 345 kV and any EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

110401110	distinssion Lindheetherts Am	idal Revende Requirement - Responsible editionner(s)
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
		PSEG (100%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North Ave - Airport 345 kV b2436.50 PSEG (100%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit b2436.60 to Bayway, convert it to PSEG (96.13%) / RE (3.87%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit b2436.70 PSEG (100%) and any associated substation upgrades **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK Relocate the overhead (3.29%) / DL (1.75%) / DPL portion of Linden - North (2.50%) / Dominion (12.86%) / Ave "T" 138 kV circuit to b2436.81 EKPC (1.87%) / JCPL (3.74%) / Bayway, convert it to 345 ME (1.90%) / NEPTUNE* kV, and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Required Tra	ansmission Enhancements	Annual Revenue Require	ment Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%) /
			APS (5.73%) / ATSI (7.88%) /
			BGE (4.22%) / ComEd (13.31%)
			/ Dayton (2.11%) / DEOK
	Convert the Bayway -		(3.29%) / DL (1.75%) / DPL
	Linden "Z" 138 kV circuit		(2.50%) / Dominion (12.86%) /
b2436.83	to 345 kV and any		EKPC (1.87%) / JCPL (3.74%) /
	associated substation		ME (1.90%) / NEPTUNE*
	upgrades		(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			PSEG (96.13%) / RE (3.87%)
			Load-Ratio Share Allocation:
			AEC (1.66%) / AEP (14.16%) /
			APS (5.73%) / ATSI (7.88%) /
			BGE (4.22%) / ComEd (13.31%)
			/ Dayton (2.11%) / DEOK
	Convert the Payman		(3.29%) / DL (1.75%) / DPL
	Convert the Bayway – Linden "W" 138 kV		(2.50%) / Dominion (12.86%) /
b2436.84	circuit to 345 kV and any		EKPC (1.87%) / JCPL (3.74%) /
02430.84	associated substation		ME (1.90%) / NEPTUNE*
	upgrades		(0.44%) / PECO (5.34%) /
	upgrades		PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			(0.20%) / KE (0.20%)
			DFAX Allocation:
			PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -(2.50%) / Dominion (12.86%) / Linden "M" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.85 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Relocate Farragut -(2.50%) / Dominion (12.86%) / Hudson "B" and "C" 345 EKPC (1.87%) / JCPL (3.74%) / b2436.90 kV circuits to Marion 345 ME (1.90%) / NEPTUNE* kV and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

Required 118	ansinission Enhancements Ani	iuai Kevenue Kequiterilei	nt Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades		PSEG (100%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		PSEG (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required Tra	Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)			
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		

required 11	distinssion Emidicements 7 til	idai ite vende itequiren	icht Responsible Customer(s)
b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

^{*}Neptune Regional Transmission System, LLC

Tioquirea Tit		da Revenue Requirement Responsible Edistorier(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%) PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required 11	ansmission Enhancements Annu	iai Kevenue Kequitemeni	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		See sub-IDs for cost allocations

Required 1ra	ansmission Enhancements Annu	ial Revenue Requireme	ent Responsible Customer(s)
	Conver the R-1318 and Q-		
	1317 (Edison – Metuchen)		
b2835.1	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Brunswick –		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.2	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Meadow Road -		
	Pierson Ave)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.3	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
	kV circuit (Pierson Ave -		, , , , ,
	Metuchen)		
	Convert the N-1340 and T-		
1.2026	1372/D-1330 (Brunswick –		
b2836	Trenton) 138 kV circuits to		See sub-IDs for cost allocations
	230 kV circuits		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.1	Trenton) 138 kV circuits to		PSEG (100%)
	230 kV circuits (Brunswick		` ,
	- Hunterglen)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.2	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Hunterglen		,
	- Trenton)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Brunswick		,
	- Devils Brook)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.4	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Devils		` '
	Brook - Trenton)		
	·	ı .	

Required 11	ansmission Enhancements Annu	aal Revenue Requireme	nt Responsible Customer(s)
	Convert the F-1358/Z1326		
	and K1363/Y-1325		
b2837	(Trenton – Burlington) 138		See sub-IDs for cost allocations
	kV circuits to 230 kV		
	circuits		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2027 1	(Trenton - Burlington) 138		NEDELINE (1000)
b2837.1	kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Trenton - Yardville		
	(K)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2005 2	(Trenton - Burlington) 138		NEDEL DIE (1000)
b2837.2	kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Yardville - Ward		
	Ave K)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2837.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Brunswick		,
	- Devils Brook)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2007 4	(Trenton - Burlington) 138		NEPTUNE (7.65%) / PSEG
b2837.4	kV circuits to 230 kV		(88.71%) / RECO (3.64%)
	circuits (Crosswicks -		, , , , , ,
	Bustleton Y)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1-2027 5	(Trenton - Burlington) 138		NEPTUNE (6.18%) / PSEG
b2837.5	kV circuits to 230 kV		(90.12%) / RECO (3.70%)
	circuits (Bustleton -		, , , , , , , , , , , , , , , , , , , ,
	Burlington Y)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.6	(Trenton - Burlington) 138		NIEDELINIE (1000)
	kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Trenton - Yardville		
	F)		
	•		

Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave F)	Required 112	ansmission Enhancements Ann	ual Revenue Requiremer	nt Responsible Customer(s)
December 2015 Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Ward Ave F)		Convert the F-1358/Z-1326		
Leading		and K-1363/Y-1325		
EV circuits to 230 kV circuits (Yardville - Ward Ave F)	b2837.7	(Trenton - Burlington) 138		NEDTLINE (100%)
Ave F) Convert the F-1358/Z-1326 and K-1363/Y-1325	02037.7	kV circuits to 230 kV		NEI TONE (100%)
Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Ward Ave - Crosswicks Z)		circuits (Yardville - Ward		
b2837.8		Ave F)		
b2837.8		Convert the F-1358/Z-1326		
NEPTUNE (100%) Section NEPTUNE (100%) Section NEPTUNE (100%) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Williams Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits to 230 kV circuits to 230 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Reco (3.65%) / RECO (3.65%) (Reco (3.65%) / RECO (3.65%) / RECO (3.65%)		and K-1363/Y-1325		
Circuits (Ward Ave - Crosswicks Z)	h2027 0	(Trenton - Burlington) 138		NEDTLINE (1000/)
Crosswicks Z Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Williams Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington) 2 Build new 138/26 kV (90.40%) / RECO (3.71%) R	02037.0	kV circuits to 230 kV		NEPTONE (100%)
Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Williams Z)		circuits (Ward Ave -		
b2837.9 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Williams Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Z) Build new 138/26 kV Newark GIS station in a building (layout #1A) located adjacent to the existing Newark Switch and		Crosswicks Z)		
b2837.9 (Trenton - Burlington) 138		Convert the F-1358/Z-1326		
b2837.10 kV circuits to 230 kV circuits (Crosswicks - Williams Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Z) Build new 138/26 kV Newark GIS station in a building (layout #1A) located adjacent to the existing Newark Switch and		and K-1363/Y-1325		
Bulld new 138/26 kV circuits to 230 kV circuits (Crosswicks - Williams Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits to 230 kV circuits (Bustleton - Burlington Z) NEPTUNE (5.89%) / PSEG (90.40%) / RECO (3.71%) circuits (Bustleton - Burlington Z) Build new 138/26 kV Newark GIS station in a building (layout #1A) located adjacent to the existing Newark Switch and PSEG (100%)	1-2027 O	(Trenton - Burlington) 138		NEPTUNE (9.14%) / PSEG
Williams Z)	02837.9	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Williams - Bustleton Z)		circuits (Crosswicks -		
b2837.10 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Williams -		Williams Z)		
b2837.10 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Z) Build new 138/26 kV Newark GIS station in a building (layout #1A) located adjacent to the existing Newark Switch and		Convert the F-1358/Z-1326		
kV circuits to 230 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Z) Build new 138/26 kV Newark GIS station in a building (layout #1A) located adjacent to the existing Newark Switch and kV circuits to 230 kV circuits (90.40%) / RECO (3.71%) PSEG (100%)		and K-1363/Y-1325		
b2837.11 b2837.	L2027 10	(Trenton - Burlington) 138		NEPTUNE (7.50%) / PSEG
Bustleton Z)	02837.10	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Z) Build new 138/26 kV Newark GIS station in a building (layout #1A) located adjacent to the existing Newark Switch and		circuits (Williams -		
b2837.11 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Z) Build new 138/26 kV Newark GIS station in a building (layout #1A) located adjacent to the existing Newark Switch and		Bustleton Z)		
b2837.11 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Z) Build new 138/26 kV Newark GIS station in a building (layout #1A) located adjacent to the existing Newark Switch and		Convert the F-1358/Z-1326		
b2837.11 kV circuits to 230 kV circuits (Bustleton - Burlington Z) Build new 138/26 kV Newark GIS station in a building (layout #1A) located adjacent to the existing Newark Switch and		and K-1363/Y-1325		
kV circuits to 230 kV circuits (Bustleton - Burlington Z) Build new 138/26 kV Newark GIS station in a building (layout #1A) located adjacent to the existing Newark Switch and	L2027 11	(Trenton - Burlington) 138		NEPTUNE (5.89%) / PSEG
Burlington Z) Build new 138/26 kV Newark GIS station in a building (layout #1A) b2870 located adjacent to the existing Newark Switch and	02837.11	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
Build new 138/26 kV Newark GIS station in a building (layout #1A) b2870 located adjacent to the existing Newark Switch and		circuits (Bustleton -		
Newark GIS station in a building (layout #1A) b2870 located adjacent to the existing Newark Switch and		Burlington Z)		
building (layout #1A) located adjacent to the existing Newark Switch and		Build new 138/26 kV		
b2870 located adjacent to the existing Newark Switch and		Newark GIS station in a		
existing Newark Switch and	ь2870	building (layout #1A)		
existing Newark Switch and		, ·		PSEG (100%)
		· ·		
demolish the existing		demolish the existing		
Newark Switch		_		
Third Source for		Third Source for		
b2933 Springfield Rd. and Stanley See sub-IDs for cost allocations	b2933	Springfield Rd. and Stanley		See sub-IDs for cost allocations
Terrace Stations				

required Tre	ansimission Emiancements Aimi	iai Kevenue Kequitement	Responsible Customer(s)
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.31	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		NEPTUNE (100%)
b2933.32	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		PSEG (100%)
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)

Required 11	ransmission Enhancements Anni	ial Revenue Requireme	ent Responsible Customer(s)
	Convert Runnemede's		
	straight bus to a ring bus		
b2935.3	and construct a 69 kV line		PSEG (100%)
	from Hilltop to Runnemede		
	69 kV		
	Wreck and rebuild the VFT		
b2955	– Warinanco – Aldene 230		JCPL (93.78%) / NEPTUNE*
02733	kV circuit with paired		(6.22%)
	conductor		
	Replace existing cable on		JCPL (0.05%) / NEPTUNE*
b2956	Cedar Grove - Jackson Rd.		(0.01%) / PSEG (96.07%) / RE
02/30	with 5000kcmil XLPE		(3.87%)
	cable		(3.6770)
	Construct a 230/69 kV		
	station at Hillsdale		
b2982	Substation and tie to		PSEG (100%)
	Paramus and Dumont at		
	69 kV		
	Install a 69 kV ring bus and		
b2982.1	one (1) 230/69 kV		PSEG (100%)
	transformer at Hillsdale		
	Construct a 69 kV network		
	between Paramus, Dumont,		
b2982.2	and Hillsdale Substation		PSEG (100%)
	using existing 69 kV		
	circuits		
b2983	Convert Kuller Road to a		PSEG (100%)
02703	69/13 kV station		15LG (10070)
	Install 69 kV ring bus and		
b2983.1	two (2) 69/13 kV		PSEG (100%)
	transformers at Kuller Road		
b2983.2	Construct a 69 kV network		
	between Kuller Road,		
	Passaic, Paterson, and		PSEG (100%)
	Harvey (new Clifton area		
	switching station)		

Version: 19.1.0

Effective Date: August 9, 2019

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		PSEG (100%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at PSEG (100%) b2421.2 **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bergen – (2.50%) / Dominion (12.86%) / Marion 138 kV path to EKPC (1.87%) / JCPL (3.74%) / b2436.10 double circuit 345 kV and ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Marion -Bayonne "L" 138 kV (2.50%) / Dominion (12.86%) / b2436.21 circuit to 345 kV and any EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
		DFAX Allocation: PSEG (100%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North Ave - Airport 345 kV b2436.50 PSEG (100%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit b2436.60 to Bayway, convert it to PSEG (96.13%) / RE (3.87%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit b2436.70 PSEG (100%) and any associated substation upgrades **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK Relocate the overhead (3.29%) / DL (1.75%) / DPL portion of Linden - North (2.50%) / Dominion (12.86%) / Ave "T" 138 kV circuit to b2436.81 EKPC (1.87%) / JCPL (3.74%) / Bayway, convert it to 345 ME (1.90%) / NEPTUNE* kV, and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -Linden "Z" 138 kV circuit (2.50%) / Dominion (12.86%) / b2436.83 to 345 kV and any EKPC (1.87%) / JCPL (3.74%) / associated substation ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway – (2.50%) / Dominion (12.86%) / Linden "W" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.84 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -(2.50%) / Dominion (12.86%) / Linden "M" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.85 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Relocate Farragut -(2.50%) / Dominion (12.86%) / Hudson "B" and "C" 345 EKPC (1.87%) / JCPL (3.74%) / b2436.90 kV circuits to Marion 345 ME (1.90%) / NEPTUNE* kV and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

Required 118	ansinission Enhancements Ani	iuai Kevenue Kequiterilei	nt Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades		PSEG (100%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		PSEG (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required 11a	ansmission Ennancements Ann	nual Revenue Requirement Responsible Customer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope	AEC (0.01%) / DPL (99.98%) /
	Creek 230 kV substation	JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

^{*}Neptune Regional Transmission System, LLC

required 11		dai Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%) PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required 11a	ansmission Enhancements Ann	ual Revenue Requiremen	it Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		See sub-IDs for cost allocations

Required 1ra	ansmission Enhancements Annu	ial Revenue Requireme	ent Responsible Customer(s)
	Conver the R-1318 and Q-		
	1317 (Edison – Metuchen)		
b2835.1	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Brunswick –		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.2	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Meadow Road -		
	Pierson Ave)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.3	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
	kV circuit (Pierson Ave -		, , , , ,
	Metuchen)		
	Convert the N-1340 and T-		
1.2026	1372/D-1330 (Brunswick –		
b2836	Trenton) 138 kV circuits to		See sub-IDs for cost allocations
	230 kV circuits		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.1	Trenton) 138 kV circuits to		PSEG (100%)
	230 kV circuits (Brunswick		
	- Hunterglen)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.2	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Hunterglen		
	- Trenton)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
02030.3	230 kV circuits (Brunswick		1(21 101(2 (100/0)
	- Devils Brook)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.4	Trenton) 138 kV circuits to		NEPTUNE (100%)
02030.4	230 kV circuits (Devils		1121 10112 (10070)
	Brook - Trenton)		
	DIOOK - HEIROH)		

Required 11	ansmission Enhancements Annu	ual Revenue Requireme	nt Responsible Customer(s)
	Convert the F-1358/Z1326		
b2837	and K1363/Y-1325		
	(Trenton – Burlington) 138		See sub-IDs for cost allocations
	kV circuits to 230 kV		
	circuits		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2027 1	(Trenton - Burlington) 138		NEDELINE (1000/)
b2837.1	kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Trenton - Yardville		
	(K)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2005 2	(Trenton - Burlington) 138		NEDEL DIE (1000)
b2837.2	kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Yardville - Ward		
	Ave K)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2837.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Brunswick		,
	- Devils Brook)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2007 4	(Trenton - Burlington) 138		NEPTUNE (7.65%) / PSEG
b2837.4	kV circuits to 230 kV		(88.71%) / RECO (3.64%)
	circuits (Crosswicks -		
	Bustleton Y)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1 2027 5	(Trenton - Burlington) 138		NEPTUNE (6.18%) / PSEG
b2837.5	kV circuits to 230 kV		(90.12%) / RECO (3.70%)
	circuits (Bustleton -		
	Burlington Y)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.6	(Trenton - Burlington) 138		NIEDELINIE (1000)
	kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Trenton - Yardville		
	F)		
l	,		

required 110	insmission Enhancements Ann	ual Revenue Requiremen	nt Responsible Customer(s)
	Convert the F-1358/Z-1326		
b2837.7	and K-1363/Y-1325		
	(Trenton - Burlington) 138		NEPTUNE (100%)
02037.7	kV circuits to 230 kV		NEI TONE (100%)
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.8	(Trenton - Burlington) 138		NEPTUNE (100%)
02037.0	kV circuits to 230 kV		NEI TONE (100%)
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.9	(Trenton - Burlington) 138		NEPTUNE (9.14%) / PSEG
02037.9	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		
	Williams Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.10	(Trenton - Burlington) 138		NEPTUNE (7.50%) / PSEG
02037.10	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.11	(Trenton - Burlington) 138		NEPTUNE (5.89%) / PSEG
02037.11	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		
	Burlington Z)		
	Build new 138/26 kV		
	Newark GIS station in a		
	building (layout #1A)		
b2870	located adjacent to the		PSEG (100%)
	existing Newark Switch and		
	demolish the existing		
	Newark Switch		
	Third Source for		
b2933	Springfield Rd. and Stanley		See sub-IDs for cost allocations
	Terrace Stations		

required Tre	ansimission Emiancements Aimi	iai Kevenue Kequitement	Responsible Customer(s)
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.31	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		NEPTUNE (100%)
b2933.32	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		PSEG (100%)
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)

Required 11	Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)			
b2935.3	Convert Runnemede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemede 69 kV		PSEG (100%)	
b2955	Wreck and rebuild the VFT - Warinanco - Aldene 230 kV circuit with paired conductor		JCPL (93.78%) / NEPTUNE* (6.22%)	
b2956	Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable		JCPL (0.05%) / NEPTUNE* (0.01%) / PSEG (96.07%) / RE (3.87%)	
b2982	Construct a 230/69 kV station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV		PSEG (100%)	
b2982.1	Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale		PSEG (100%)	
b2982.2	Construct a 69 kV network between Paramus, Dumont, and Hillsdale Substation using existing 69 kV circuits		PSEG (100%)	
b2983	Convert Kuller Road to a 69/13 kV station		PSEG (100%)	
b2983.1	Install 69 kV ring bus and two (2) 69/13 kV transformers at Kuller Road		PSEG (100%)	
b2983.2	Construct a 69 kV network between Kuller Road, Passaic, Paterson, and Harvey (new Clifton area switching station)		PSEG (100%)	
b2986	Replace the existing Roseland – Branchburg – Pleasant Valley 230 kV corridor with new structures		See sub-IDs for cost allocations	

			responsible edistanter(s)
b2986.11	Roseland-Branchburg 230 kV corridor rebuild (Roseland -		PSEG (100%)
	Readington)		1523 (10070)
b2986.12	Roseland-Branchburg 230kV corridor rebuild (Readington - Branchburg)		JCPL (100%)
b2986.21	Branchburg-Pleasant Valley 230kV corridor rebuild (Branchburg - East Flemington)		PECO (100%)
b2986.22	Branchburg-Pleasant Valley 230kV corridor rebuild (East Flemington - Pleasant Valley)		NEPTUNE (0.77%) / PECO (99.23%)
b2986.23	Branchburg-Pleasant Valley 230kV corridor rebuild (Pleasant Valley - Rocktown)	(5	JCPL (31.39%) / NEPTUNE 5.26%) / PECO (6.68%) / PSEG (54.43%) / RECO (2.23%)
b2986.24	Branchburg-Pleasant Valley 230kV corridor rebuild (the PSEG portion of Rocktown - Buckingham)	(4	JCPL (37.95%) / NEPTUNE 4.70%) / PECO (5.38%) / PSEG (49.92%) / RECO (2.05%)

Version: 20.1.0

Effective Date: November 28, 2018

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		PSEG (100%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at PSEG (100%) b2421.2 **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bergen – (2.50%) / Dominion (12.86%) / Marion 138 kV path to EKPC (1.87%) / JCPL (3.74%) / b2436.10 double circuit 345 kV and ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Marion -Bayonne "L" 138 kV (2.50%) / Dominion (12.86%) / circuit to 345 kV and any EKPC (1.87%) / JCPL (3.74%) / b2436.21 associated substation ME (1.90%) / NEPTUNE* upgrades (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

b2436.22	Convert the Marion - Bayonne "C" 138 kV	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
		DFAX Allocation: PSEG (100%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North Ave - Airport 345 kV b2436.50 PSEG (100%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit b2436.60 to Bayway, convert it to PSEG (96.13%) / RE (3.87%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit b2436.70 PSEG (100%) and any associated substation upgrades **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK Relocate the overhead (3.29%) / DL (1.75%) / DPL portion of Linden - North (2.50%) / Dominion (12.86%) / Ave "T" 138 kV circuit to b2436.81 EKPC (1.87%) / JCPL (3.74%) / Bayway, convert it to 345 ME (1.90%) / NEPTUNE* kV, and any associated (0.44%) / PECO (5.34%) / substation upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway -Linden "Z" 138 kV circuit (2.50%) / Dominion (12.86%) / b2436.83 to 345 kV and any EKPC (1.87%) / JCPL (3.74%) / associated substation ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL Convert the Bayway – (2.50%) / Dominion (12.86%) / Linden "W" 138 kV EKPC (1.87%) / JCPL (3.74%) / b2436.84 circuit to 345 kV and any ME (1.90%) / NEPTUNE* associated substation (0.44%) / PECO (5.34%) / upgrades PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** PSEG (96.13%) / RE (3.87%)

^{*}Neptune Regional Transmission System, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.66%) / AEP (14.16%) /
		APS (5.73%) / ATSI (7.88%) /
		BGE (4.22%) / ComEd (13.31%)
		/ Dayton (2.11%) / DEOK
	Convert the Bayway –	(3.29%) / DL (1.75%) / DPL
	Linden "M" 138 kV	(2.50%) / Dominion (12.86%) /
b2436.85	circuit to 345 kV and any	EKPC (1.87%) / JCPL (3.74%) /
	associated substation	ME (1.90%) / NEPTUNE*
	upgrades	(0.44%) / PECO (5.34%) /
		PENELEC (1.89%) / PEPCO
		(3.99%) / PPL (4.84%) / PSEG
		(6.26%) / RE (0.26%)
		DFAX Allocation:
		PSEG (96.13%) / RE (3.87%)
		Load-Ratio Share Allocation:
		AEC (1.66%) / AEP (14.16%) /
		APS (5.73%) / ATSI (7.88%) /
		BGE (4.22%) / ComEd (13.31%)
		/ Dayton (2.11%) / DEOK
	Relocate Farragut -	(3.29%) / DL (1.75%) / DPL
	Hudson "B" and "C" 345	(2.50%) / Dominion (12.86%) /
b2436.90	kV circuits to Marion 345	EKPC (1.87%) / JCPL (3.74%) /
	kV and any associated	ME (1.90%) / NEPTUNE*
	substation upgrades	(0.44%) / PECO (5.34%) /
		PENELEC (1.89%) / PEPCO
		(3.99%) / PPL (4.84%) / PSEG
		(6.26%) / RE (0.26%)
		DFAX Allocation:
		PSEG (96.13%) / RE (3.87%)
	Relocate the Hudson 2	
1-0426-01	generation to inject into	DGEG (1000/)
b2436.91	the 345 kV at Marion and	PSEG (100%)
	any associated upgrades	

^{*}Neptune Regional Transmission System, LLC

Required 118	ansinission Enhancements Ani	iuai Revenue Requiremen	nt Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades		PSEG (100%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		PSEG (96.13%) / RE (3.87%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		PSEG (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100.00%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100.00%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Ennancements Annual Revenue Requirement Responsible Customer(s)		
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

	required Transmission Emiliare ments Transmission Entransmission (5)			
b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)		
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)		

^{*}Neptune Regional Transmission System, LLC

b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required 11	ansmission Enhancements Anni	aal Revenue Requiremer	it Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		See sub-IDs for cost allocations

Required 1ra	ansmission Enhancements Annu	ial Revenue Requireme	ent Responsible Customer(s)
	Conver the R-1318 and Q-		
	1317 (Edison – Metuchen)		
b2835.1	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Brunswick –		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.2	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Meadow Road -		
	Pierson Ave)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.3	138 kV circuits to one 230		PSEG (96.13%) / RE (3.87%)
	kV circuit (Pierson Ave -		, , , , ,
	Metuchen)		
	Convert the N-1340 and T-		
1.2026	1372/D-1330 (Brunswick –		
b2836	Trenton) 138 kV circuits to		See sub-IDs for cost allocations
	230 kV circuits		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.1	Trenton) 138 kV circuits to		PSEG (100%)
	230 kV circuits (Brunswick		
	- Hunterglen)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.2	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Hunterglen		
	- Trenton)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
02030.3	230 kV circuits (Brunswick		1(21 101(2 (100/0)
	- Devils Brook)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.4	Trenton) 138 kV circuits to		NEPTUNE (100%)
02030.7	230 kV circuits (Devils		1121 10112 (10070)
	Brook - Trenton)		
	DIOOK - HEIROH)		

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)			
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138		See sub-IDs for cost allocations
	kV circuits to 230 kV circuits		
	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Tranton Burlington) 138		
b2837.1	(Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville		NEPTUNE (100%)
	K)		
	Convert the F-1358/Z-1326 and K-1363/Y-1325		
	(Trenton - Burlington) 138		
b2837.2	kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Yardville - Ward		
	Ave K)		
	Convert the N-1340 and T-		
b2837.3	1372/D-1330 (Brunswick - Trenton) 138 kV circuits to		NEPTUNE (100%)
02037.3	230 kV circuits (Brunswick		NEF 1 ONE (100%)
	- Devils Brook)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.4	(Trenton - Burlington) 138		NEPTUNE (7.65%) / PSEG
	kV circuits to 230 kV circuits (Crosswicks -		(88.71%) / RECO (3.64%)
	Bustleton Y)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325 (Trenton - Burlington) 138		NEPTUNE (6.18%) / PSEG
b2837.5	kV circuits to 230 kV		(90.12%) / RECO (3.70%)
	circuits (Bustleton -		(50.1270)
	Burlington Y)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.6	(Trenton - Burlington) 138 kV circuits to 230 kV		NEPTUNE (100%)
	circuits (Trenton - Yardville		
	F)		
		l l	

Required 11	ansmission Enhancements Ann	ual Revenue Requiremen	nt Responsible Customer(s)
	Convert the F-1358/Z-1326		
b2837.7	and K-1363/Y-1325		
	(Trenton - Burlington) 138		NEPTUNE (100%)
02037.7	kV circuits to 230 kV		NEFTONE (100%)
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.8	(Trenton - Burlington) 138		NEPTUNE (100%)
02037.0	kV circuits to 230 kV		NEI TONE (100%)
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.9	(Trenton - Burlington) 138		NEPTUNE (9.14%) / PSEG
02037.9	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		
	Williams Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.10	(Trenton - Burlington) 138		NEPTUNE (7.50%) / PSEG
02037.10	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.11	(Trenton - Burlington) 138		NEPTUNE (5.89%) / PSEG
02037.11	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		
	Burlington Z)		
	Build new 138/26 kV		
	Newark GIS station in a		
	building (layout #1A)		
b2870	located adjacent to the		PSEG (100%)
	existing Newark Switch and		
	demolish the existing		
	Newark Switch		
	Third Source for		
b2933	Springfield Rd. and Stanley		See sub-IDs for cost allocations
	Terrace Stations		

required Tre	ansimission Emiancements Aimi	iai Kevenue Kequitement	Responsible Customer(s)
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.31	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		NEPTUNE (100%)
b2933.32	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		PSEG (100%)
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)

Required I	ransmission Enhancements Ann	ual Revenue Requireme	nt Responsible Customer(s)
	Convert Runnemede's		
b2935.3	straight bus to a ring bus and		PSEG (100%)
	construct a 69 kV line from		13EG (100%)
	Hilltop to Runnemede 69 kV		
	Wreck and rebuild the VFT –		JCPL (93.78%) / NEPTUNE*
b2955	Warinanco – Aldene 230 kV		(6.22%)
	circuit with paired conductor		` '
	Replace existing cable on		JCPL (0.05%) / NEPTUNE*
b2956	Cedar Grove - Jackson Rd.		(0.01%) / PSEG (96.07%) / RE
	with 5000kcmil XLPE cable		(3.87%)
	Construct a 230/69 kV		
	station at Hillsdale		
b2982	Substation and tie to Paramus		PSEG (100%)
	and Dumont at		
	69 kV		
	Install a 69 kV ring bus and		
b2982.1	one (1) 230/69 kV		PSEG (100%)
	transformer at Hillsdale		
	Construct a 69 kV network		
b2982.2	between Paramus, Dumont,	DSEC (1000/)	PSEG (100%)
02982.2	and Hillsdale Substation		1 SEG (100%)
	using existing 69 kV circuits		
b2983	Convert Kuller Road to a		DCEC (1000/)
02983	69/13 kV station		PSEG (100%)
	Install 69 kV ring bus and		
b2983.1	two (2) 69/13 kV		PSEG (100%)
	transformers at Kuller Road		,
	Construct a 69 kV network		
	between Kuller Road,		
b2983.2	Passaic, Paterson, and		PSEG (100%)
	Harvey (new Clifton area		, ,
	switching station)		
	Replace the existing		
L200 6	Roseland – Branchburg –		Can sub IDs for 11!
b2986	Pleasant Valley 230 kV		See sub-IDs for cost allocations
	corridor with new structures		

Required 1.	ransmission Emancements Annua	Revenue Requirement Responsible Customer(s)
b2986.11	Roseland-Branchburg 230 kV corridor rebuild (Roseland - Readington)	PSEG (100%)
b2986.12	Roseland-Branchburg 230kV corridor rebuild (Readington - Branchburg)	JCPL (100%)
b2986.21	Branchburg-Pleasant Valley 230kV corridor rebuild (Branchburg - East Flemington)	PECO (100%)
b2986.22	Branchburg-Pleasant Valley 230kV corridor rebuild (East Flemington - Pleasant Valley)	NEPTUNE (0.77%) / PECO (99.23%)
b2986.23	Branchburg-Pleasant Valley 230kV corridor rebuild (Pleasant Valley - Rocktown)	JCPL (31.39%) / NEPTUNE (5.26%) / PECO (6.68%) / PSEG (54.43%) / RECO (2.23%)
b2986.24	Branchburg-Pleasant Valley 230kV corridor rebuild (the PSEG portion of Rocktown - Buckingham)	JCPL (37.95%) / NEPTUNE (4.70%) / PECO (5.38%) / PSEG (49.92%) / RECO (2.05%)
b3003	Construct a 230/69 kV station at Maywood	PSEG (100%)
b3003.1	Purchase properties at Maywood to accommodate new construction	PSEG (100%)
b3003.2	Extend Maywood 230 kV bus and install one (1) 230 kV breaker	PSEG (100%)
b3003.3	Install one (1) 230/69 kV transformer at Maywood	PSEG (100%)
b3003.4	Install Maywood 69 kV ring bus	PSEG (100%)
b3003.5	Construct a 69 kV network between Spring Valley Road, Hasbrouck Heights, and Maywood	PSEG (100%)

b3004	Construct a 230/69/13 kV station by tapping the Mercer – Kuser Rd 230 kV circuit	PSEG (100%)
b3004.1	Install a new Clinton 230 kV ring bus with one (1) 230/69 kV transformer Mercer - Kuser Rd 230 kV circuit	PSEG (100%)
b3004.2	Expand existing 69 kV ring bus at Clinton Ave with two (2) additional 69 kV breakers	PSEG (100%)
b3004.3	Install two (2) 69/13 kV transformers at Clinton Ave	PSEG (100%)
b3004.4	Install 18 MVAR capacitor bank at Clinton Ave 69 kV	PSEG (100%)

Version: 20.1.2

Effective Date: January 1, 2019

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requireme	ent Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		PSEG (100%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Convert the Bergen – (2.48%) / Dominion (13.17%) / Marion 138 kV path to EKPC (2.13%) / JCPL (3.71%) / b2436.10 double circuit 345 kV and ME (1.88%) / NEPTUNE* associated substation (0.42%) / PECO (5.34%) / upgrades PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Convert the Marion -Bayonne "L" 138 kV (2.48%) / Dominion (13.17%) / b2436.21 circuit to 345 kV and any EKPC (2.13%) / JCPL (3.71%) / associated substation ME (1.88%) / NEPTUNE* upgrades (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

b2436.22	Convert the Marion - Bayonne "C" 138 kV	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
		DFAX Allocation: PSEG (100%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North Ave - Airport 345 kV b2436.50 PSEG (100%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit b2436.60 to Bayway, convert it to PSEG (100%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit b2436.70 PSEG (100%) and any associated substation upgrades **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / Relocate the overhead DEOK (3.22%) / DL (1.73%) / portion of Linden - North DPL (2.48%) / Dominion Ave "T" 138 kV circuit to b2436.81 (13.17%) / EKPC (2.13%) / Bayway, convert it to 345 JCPL (3.71%) / ME (1.88%) / kV, and any associated NEPTUNE* (0.42%) / PECO substation upgrades (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (96.08%) / RE (3.92%)

^{*}Neptune Regional Transmission System, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requiren	nent Responsible Customer(s)
			Load-Ratio Share Allocation:
	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades		AEC (1.61%) / AEP (14.10%) /
			APS (5.79%) / ATSI (7.95%) /
			BGE (4.11%) / ComEd (13.24%)
			/ Dayton (2.07%) / DEOK
			(3.22%) / DL (1.73%) / DPL
			(2.48%) / Dominion (13.17%) /
b2436.83			EKPC (2.13%) / JCPL (3.71%) /
			ME (1.88%) / NEPTUNE*
			(0.42%) / PECO (5.34%) /
			PENELEC (1.86%) / PEPCO
			(3.98%) / PPL (4.76%) / PSEG
			(6.19%) / RE (0.26%)
			DFAX Allocation:
			PSEG (96.08%) / RE (3.92%)
	Convert the Bayway – Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades		Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%) /
			APS (5.79%) / ATSI (7.95%) /
			BGE (4.11%) / ComEd (13.24%)
			/ Dayton (2.07%) / DEOK
			(3.22%) / DL (1.73%) / DPL
			(2.48%) / Dominion (13.17%) /
b2436.84			EKPC (2.13%) / JCPL (3.71%) /
			ME (1.88%) / NEPTUNE*
			(0.42%) / PECO (5.34%) /
			PENELEC (1.86%) / PEPCO
			(3.98%) / PPL (4.76%) / PSEG
			(6.19%) / RE (0.26%)
			DFAX Allocation:
			PSEG (96.08%) / RE (3.92%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Convert the Bayway – Linden "M" 138 kV (2.48%) / Dominion (13.17%) / b2436.85 circuit to 345 kV and any EKPC (2.13%) / JCPL (3.71%) / associated substation ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / upgrades PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (96.08%) / RE (3.92%) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Relocate Farragut -(2.48%) / Dominion (13.17%) / Hudson "B" and "C" 345 EKPC (2.13%) / JCPL (3.71%) / b2436.90 kV circuits to Marion 345 ME (1.88%) / NEPTUNE* kV and any associated (0.42%) / PECO (5.34%) / substation upgrades PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

Required 11a	ansinission Enhancements Ani	iuai Revenue Requiremen	it Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades		PSEG (96.08%) / RE (3.92%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades		PSEG (100%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades		PSEG (96.08%) / RE (3.92%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades		PSEG (96.08%) / RE (3.92%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades		PSEG (96.08%) / RE (3.92%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades		PSEG (100%)
b2438	Install two reactors at Tosco 230 kV		PSEG (100%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA		PSEG (100%)
b2474	Rebuild Athenia 138 kV to 80kA		PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station		PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required Tra	ansmission Enhancements Anr	nual Revenue Requirement Responsible Customer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)

b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Eminancements Annual Revenue Requirement Responsible Customer(s)			
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)	
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)	
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation: PSEG (100%)	
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)	
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)	
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)	
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)	
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)	

^{*}Neptune Regional Transmission System, LLC

Required 11	ansmission Enhancements Anni	ual Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		See sub-IDs for cost allocations

Required 11	ansmission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
	Conver the R-1318 and Q-		
	1317 (Edison – Metuchen)		
b2835.1	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Brunswick –		
	Meadow Road)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.2	138 kV circuits to one 230		PSEG (100%)
	kV circuit (Meadow Road -		
	Pierson Ave)		
	Convert the R-1318 and Q-		
	1317 (Edison - Metuchen)		
b2835.3	138 kV circuits to one 230		PSEG (96.08%) / RE (3.92%)
	kV circuit (Pierson Ave -		
	Metuchen)		
	Convert the N-1340 and T-		
1.2026	1372/D-1330 (Brunswick –		
b2836	Trenton) 138 kV circuits to		See sub-IDs for cost allocations
	230 kV circuits		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.1	Trenton) 138 kV circuits to	PSEG (10	PSEG (100%)
	230 kV circuits (Brunswick		,
	- Hunterglen)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.2	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Hunterglen		` ,
	- Trenton)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Brunswick		, ,
	- Devils Brook)		
	Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2836.4	Trenton) 138 kV circuits to		NEPTUNE (100%)
	230 kV circuits (Devils		, ,
	Brook - Trenton)		
L	ı	1	

Required 11	ansmission Enhancements Annu	ial Revenue Requirement	Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138		See sub-IDs for cost allocations
	kV circuits to 230 kV circuits		
	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138		
b2837.1	kV circuits to 230 kV circuits (Trenton - Yardville K)		NEPTUNE (100%)
	Convert the F-1358/Z-1326 and K-1363/Y-1325		
b2837.2	(Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward		NEPTUNE (100%)
	Ave K) Convert the N-1340 and T-		
	1372/D-1330 (Brunswick -		
b2837.3	Trenton) 138 kV circuits to		NEPTUNE (100%)
02037.3	230 kV circuits (Brunswick		TVEI TOTVE (10070)
	- Devils Brook)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.4	(Trenton - Burlington) 138		NEPTUNE (7.65%) / PSEG
02037.4	kV circuits to 230 kV		(88.71%) / RECO (3.64%)
	circuits (Crosswicks -		
	Bustleton Y)		
	Convert the F-1358/Z-1326 and K-1363/Y-1325		
1-2027 5	(Trenton - Burlington) 138		NEPTUNE (6.18%) / PSEG
b2837.5	kV circuits to 230 kV		(90.12%) / RECO (3.70%)
	circuits (Bustleton -		· · · · · · · · · · · · · · · · · · ·
	Burlington Y)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.6	(Trenton - Burlington) 138		NEPTUNE (100%)
	kV circuits to 230 kV		(/
	circuits (Trenton - Yardville		
	F)		

Required 11	ansmission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
	Convert the F-1358/Z-1326		
b2837.7	and K-1363/Y-1325		
	(Trenton - Burlington) 138		NEPTUNE (100%)
02037.7	kV circuits to 230 kV		NEI TONE (100%)
	circuits (Yardville - Ward		
	Ave F)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.8	(Trenton - Burlington) 138		NEPTUNE (100%)
02037.0	kV circuits to 230 kV		NEFTONE (100%)
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.9	(Trenton - Burlington) 138		NEPTUNE (9.14%) / PSEG
02037.9	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		
	Williams Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.10	(Trenton - Burlington) 138		NEPTUNE (7.50%) / PSEG
02037.10	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.11	(Trenton - Burlington) 138		NEPTUNE (5.89%) / PSEG
02037.11	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		
	Burlington Z)		
	Build new 138/26 kV		
	Newark GIS station in a		
	building (layout #1A)		
b2870	located adjacent to the		PSEG (100%)
	existing Newark Switch and		
	demolish the existing		
	Newark Switch		
	Third Source for		
b2933	Springfield Rd. and Stanley		See sub-IDs for cost allocations
	Terrace Stations		

required Tre	ansimission Emiancements Aimi	iai Kevenue Kequitemeni	Responsible Customer(s)
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.31	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		NEPTUNE (100%)
b2933.32	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		PSEG (100%)
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)

Required 11	ansmission Enhancements Annu	iai Revenue Requirement	Responsible Customer(s)
b2935.3	Convert Runnemede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemede 69 kV		PSEG (100%)
b2955	Wreck and rebuild the VFT - Warinanco - Aldene 230 kV circuit with paired conductor		JCPL (93.78%) / NEPTUNE* (6.22%)
b2956	Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable		JCPL (0.05%) / NEPTUNE* (0.01%) / PSEG (96.07%) / RE (3.87%)
b2982	Construct a 230/69 kV station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV		PSEG (100%)
b2982.1	Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale		PSEG (100%)
b2982.2	Construct a 69 kV network between Paramus, Dumont, and Hillsdale Substation using existing 69 kV circuits		PSEG (100%)
b2983	Convert Kuller Road to a 69/13 kV station		PSEG (100%)
b2983.1	Install 69 kV ring bus and two (2) 69/13 kV transformers at Kuller Road		PSEG (100%)
b2983.2	Construct a 69 kV network between Kuller Road, Passaic, Paterson, and Harvey (new Clifton area switching station)		PSEG (100%)
b2986	Replace the existing Roseland – Branchburg – Pleasant Valley 230 kV corridor with new structures		See sub-IDs for cost allocations

Required 118	ansimission Emiancements Anni	iai Kevenue Kequitemeni	Responsible Customer(s)
b2986.11	Roseland-Branchburg 230 kV corridor rebuild (Roseland - Readington)		PSEG (100%)
b2986.12	Roseland-Branchburg 230kV corridor rebuild (Readington - Branchburg)		JCPL (100%)
b2986.21	Branchburg-Pleasant Valley 230kV corridor rebuild (Branchburg - East Flemington)		PECO (100%)
b2986.22	Branchburg-Pleasant Valley 230kV corridor rebuild (East Flemington - Pleasant Valley)		NEPTUNE (0.77%) / PECO (99.23%)
b2986.23	Branchburg-Pleasant Valley 230kV corridor rebuild (Pleasant Valley - Rocktown)		JCPL (31.39%) / NEPTUNE (5.26%) / PECO (6.68%) / PSEG (54.43%) / RECO (2.23%)
b2986.24	Branchburg-Pleasant Valley 230kV corridor rebuild (the PSEG portion of Rocktown - Buckingham)		JCPL (37.95%) / NEPTUNE (4.70%) / PECO (5.38%) / PSEG (49.92%) / RECO (2.05%)
b3003	Construct a 230/69 kV station at Maywood		PSEG (100%)
b3003.1	Purchase properties at Maywood to accommodate new construction		PSEG (100%)
b3003.2	Extend Maywood 230 kV bus and install one (1) 230 kV breaker		PSEG (100%)
b3003.3	Install one (1) 230/69 kV transformer at Maywood		PSEG (100%)

Required 11	ansimission Emiancements Anni	uai Kevenue Kequirement	Responsible Customer(s)
b3003.4	Install Maywood 69 kV ring bus		PSEG (100%)
b3003.5	Construct a 69 kV network between Spring Valley Road, Hasbrouck Heights, and Maywood		PSEG (100%)
b3004	Construct a 230/69/13 kV station by tapping the Mercer – Kuser Rd 230 kV circuit		PSEG (100%)
b3004.1	Install a new Clinton 230 kV ring bus with one (1) 230/69 kV transformer Mercer - Kuser Rd 230 kV circuit		PSEG (100%)
b3004.2	Expand existing 69 kV ring bus at Clinton Ave with two (2) additional 69 kV breakers		PSEG (100%)
b3004.3	Install two (2) 69/13 kV transformers at Clinton Ave		PSEG (100%)
b3004.4	Install 18 MVAR capacitor bank at Clinton Ave 69 kV		PSEG (100%)

Version: 21.2.0

Effective Date: January 31, 2019

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

Required Tra	ansmission Enhancements	Annual Revenue Requiremer	nt Responsible Customer(s)
b2218	Rebuild 4 miles of overhead line from Edison - Meadow Rd - Metuchen (Q 1317)		PSEG (100%)
b2239	50 MVAR reactor at Saddlebrook 230 kV		PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV		PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV		PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV		PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV		PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV		PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV		PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV		PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV		PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV		PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV		PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV		PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV		PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

The Annual Revenue Requirement for all Public Service Electric and Gas Company Projects (Required Transmission Enhancements) in this Section 12 shall be as specified in Attachment 7 of Attachment H-10A and under the procedures detailed in Attachment H-10B.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Eliminate the Sewaren 138 kV bus by installing a new b2276 PSEG (100%) 230 kV bay at Sewaren 230 kV Convert the two 138 kV circuits from Sewaren -Metuchen to 230 kV b2276.1 PSEG (100%) circuits including Lafayette and Woodbridge substation Reconfigure the Metuchen 230 kV station to b2276.2 PSEG (100%) accommodate the two converted circuits Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook b2290 PSEG (100%) 230 kV substations on the Raritian River - Middlesex (I-1023) circuit Replace circuit switcher at Lake Nelson 230 kV b2291 substation on the Raritian PSEG (100%) River - Middlesex (W-1037) circuit Replace the Salem 500 kV b2295 breaker 10X with 63kA PSEG (100%) breaker Install all 69kV lines to interconnect Plainfield, Greenbrook, and b2421 PSEG (100%) Bridgewater stations and establish the 69kV network Install two 18MVAR capacitors at Plainfield b2421.1 PSEG (100%) and S. Second St substation

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second four (4) breaker 69kV ring bus at b2421.2 PSEG (100%) **Bridgewater Switching** Station **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Convert the Bergen – (2.48%) / Dominion (13.17%) / Marion 138 kV path to EKPC (2.13%) / JCPL (3.71%) / b2436.10 double circuit 345 kV and ME (1.88%) / NEPTUNE* associated substation (0.42%) / PECO (5.34%) / upgrades PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Convert the Marion -Bayonne "L" 138 kV (2.48%) / Dominion (13.17%) / circuit to 345 kV and any b2436.21 EKPC (2.13%) / JCPL (3.71%) / associated substation ME (1.88%) / NEPTUNE* upgrades (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
		PSEG (100%)
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Construct a new North Ave - Airport 345 kV b2436.50 PSEG (100%) circuit and any associated substation upgrades Relocate the underground portion of North Ave -Linden "T" 138 kV circuit b2436.60 to Bayway, convert it to PSEG (100%) 345 kV, and any associated substation upgrades Construct a new Airport -Bayway 345 kV circuit b2436.70 PSEG (100%) and any associated substation upgrades **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / Relocate the overhead DEOK (3.22%) / DL (1.73%) / portion of Linden - North DPL (2.48%) / Dominion Ave "T" 138 kV circuit to b2436.81 (13.17%) / EKPC (2.13%) / Bayway, convert it to 345 JCPL (3.71%) / ME (1.88%) / kV, and any associated NEPTUNE* (0.42%) / PECO substation upgrades (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (96.08%) / RE (3.92%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Convert the Bayway -Linden "Z" 138 kV circuit (2.48%) / Dominion (13.17%) / b2436.83 to 345 kV and any EKPC (2.13%) / JCPL (3.71%) / associated substation ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / upgrades PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (96.08%) / RE (3.92%) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Convert the Bayway – (2.48%) / Dominion (13.17%) / Linden "W" 138 kV EKPC (2.13%) / JCPL (3.71%) / b2436.84 circuit to 345 kV and any ME (1.88%) / NEPTUNE* associated substation (0.42%) / PECO (5.34%) / upgrades PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (96.08%) / RE (3.92%)

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Convert the Bayway – Linden "M" 138 kV (2.48%) / Dominion (13.17%) / b2436.85 circuit to 345 kV and any EKPC (2.13%) / JCPL (3.71%) / associated substation ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / upgrades PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (96.08%) / RE (3.92%) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL Relocate Farragut -(2.48%) / Dominion (13.17%) / Hudson "B" and "C" 345 EKPC (2.13%) / JCPL (3.71%) / b2436.90 kV circuits to Marion 345 ME (1.88%) / NEPTUNE* kV and any associated (0.42%) / PECO (5.34%) / substation upgrades PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** PSEG (100%) Relocate the Hudson 2 generation to inject into b2436.91 PSEG (100%) the 345 kV at Marion and any associated upgrades

^{*}Neptune Regional Transmission System, LLC

required 110	distribsion Emidicements Am	idal Revenue Requirement - Responsible Edistorier(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades	PSEG (96.08%) / RE (3.92%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades	PSEG (100%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades	PSEG (96.08%) / RE (3.92%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades	PSEG (96.08%) / RE (3.92%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades	PSEG (96.08%) / RE (3.92%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades	PSEG (100%)
b2438	Install two reactors at Tosco 230 kV	PSEG (100%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA	PSEG (100%)
b2474	Rebuild Athenia 138 kV to 80kA	PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station	PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required 11	ansmission Ennancements Ann	nual Revenue Requirement Responsible Customer(s)
b2633.3	Install an SVC at New Freedom 500 kV substation	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
b2633.4	Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)

b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)

^{*}Neptune Regional Transmission System, LLC

Tequiled 116		iai Revenue Requirement Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

^{*}Neptune Regional Transmission System, LLC

Required 11	ansmission Enhancements Annu	iai Revenue Requirement	Responsible Customer(s)
b2712	Replace the Bergen 138 kV '40P'breaker with 80kA breaker		PSEG (100%)
b2713	Replace the Bergen 138 kV '90P' breaker with 80kA breaker		PSEG (100%)
b2722	Reconductor the 1 mile Bergen – Bergen GT 138 kV circuit (B-1302)		PSEG (100%)
b2755	Build a third 345 kV source into Newark Airport		PSEG (100%)
b2810.1	Install second 230/69 kV transformer at Cedar Grove		PSEG (100%)
b2810.2	Build a new 69 kV circuit from Cedar Grove to Great Notch		PSEG (100%)
b2811	Build 69 kV circuit from Locust Street to Delair		PSEG (100%)
b2812	Construct River Road to Tonnelle Avenue 69kV Circuit		PSEG (100%)
b2825.1	Install 2X50 MVAR shunt reactors at Kearny 230 kV substation		PSEG (100%)
b2825.2	Increase the size of the Hudson 230 kV, 2X50 MVAR shunt reactors to 2X100 MVAR		PSEG (100%)
b2825.3	Install 2X100 MVAR shunt reactors at Bayway 345 kV substation		PSEG (100%)
b2825.4	Install 2X100 MVAR shunt reactors at Linden 345 kV substation		PSEG (100%)
b2835	Convert the R-1318 and Q1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit		See sub-IDs for cost allocations

Required Tra	ansmission Enhancements Annu	ual Revenue Requirement	Responsible Customer(s)
b2835.1	Conver the R-1318 and Q- 1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit (Brunswick – Meadow Road)		PSEG (100%)
b2835.2	Convert the R-1318 and Q- 1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Meadow Road - Pierson Ave)		PSEG (100%)
b2835.3	Convert the R-1318 and Q- 1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Pierson Ave - Metuchen)		PSEG (96.08%) / RE (3.92%)
b2836	Convert the N-1340 and T- 1372/D-1330 (Brunswick – Trenton) 138 kV circuits to 230 kV circuits		See sub-IDs for cost allocations
b2836.1	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Hunterglen)		PSEG (100%)
b2836.2	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)		NEPTUNE (100%)
b2836.3	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		NEPTUNE (100%)
b2836.4	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils Brook - Trenton)		NEPTUNE (100%)

Required 1ra	ansmission Enhancements Annu	ial Revenue Requirement	Responsible Customer(s)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		See sub-IDs for cost allocations
b2837.1	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville K)		NEPTUNE (100%)
b2837.2	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Yardville - Ward Ave K)		NEPTUNE (100%)
b2837.3	Convert the N-1340 and T- 1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)		NEPTUNE (100%)
b2837.4	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Bustleton Y)		NEPTUNE (7.65%) / PSEG (88.71%) / RECO (3.64%)
b2837.5	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Y)		NEPTUNE (6.18%) / PSEG (90.12%) / RECO (3.70%)
b2837.6	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Trenton - Yardville F)		NEPTUNE (100%)

Required Tra	ansmission Enhancements Ann	ual Revenue Requirement	Responsible Customer(s)
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
b2837.7	(Trenton - Burlington) 138		NEPTUNE (100%)
02037.7	kV circuits to 230 kV		11L1 1011L (10070)
	circuits (Yardville - Ward		
	Ave F)		
	and K-1363/Y-1325		
b2837 8	(Trenton - Burlington) 138		NEPTUNE (100%)
02037.8	kV circuits to 230 kV		NEI TONE (100%)
	circuits (Ward Ave -		
	Crosswicks Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1-2027 O	(Trenton - Burlington) 138		NEPTUNE (9.14%) / PSEG
02837.9	kV circuits to 230 kV		(87.28%) / RECO (3.58%)
	circuits (Crosswicks -		
	Williams Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1-2027 10	(Trenton - Burlington) 138		NEPTUNE (7.50%) / PSEG
62837.10	kV circuits to 230 kV		(88.85%) / RECO (3.65%)
	circuits (Williams -		
	Bustleton Z)		
	Convert the F-1358/Z-1326		
	and K-1363/Y-1325		
1-2027 11	Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Ward Ave - Crosswicks Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Crosswicks - Williams Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits (Williams - Bustleton Z) Convert the F-1358/Z-1326 and K-1363/Y-1325 (Trenton - Burlington) 138 kV circuits to 230 kV circuits (Bustleton - Burlington Z) Build new 138/26 kV Newark GIS station in a building (layout #1A) located adjacent to the existing Newark Switch and demolish the existing Newark Switch Third Source for Springfield Rd. and Stanley	NEPTUNE (5.89%) / PSEG	
02837.11	kV circuits to 230 kV		(90.40%) / RECO (3.71%)
	circuits (Bustleton -		
	Burlington Z)		
	Build new 138/26 kV		
	Newark GIS station in a		
b2870			PSEG (100%)
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	_		
	_		
b2933			See sub-IDs for cost allocations
	Terrace Stations		
L		l l	

Required 118	ansmission Enhancements Annu	iai Revenue Requirement	Responsible Customer(s)
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.31	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)		NEPTUNE (100%)
b2933.32	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace)		PSEG (100%)
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)

Required 11	ansmission Enhancements Anni	ual Revenue Requirement	Responsible Customer(s)
b2935.3	Convert Runnemede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemede 69 kV		PSEG (100%)
b2955	Wreck and rebuild the VFT - Warinanco - Aldene 230 kV circuit with paired conductor		JCPL (93.78%) / NEPTUNE* (6.22%)
b2956	Replace existing cable on Cedar Grove - Jackson Rd. with 5000kcmil XLPE cable		JCPL (0.05%) / NEPTUNE* (0.01%) / PSEG (96.07%) / RE (3.87%)
b2982	Construct a 230/69 kV station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV		PSEG (100%)
b2982.1	Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale		PSEG (100%)
b2982.2	Construct a 69 kV network between Paramus, Dumont, and Hillsdale Substation using existing 69 kV circuits		PSEG (100%)
b2983	Convert Kuller Road to a 69/13 kV station		PSEG (100%)
b2983.1	Install 69 kV ring bus and two (2) 69/13 kV transformers at Kuller Road		PSEG (100%)
b2983.2	Construct a 69 kV network between Kuller Road, Passaic, Paterson, and Harvey (new Clifton area switching station)		PSEG (100%)
b2986	Replace the existing Roseland – Branchburg – Pleasant Valley 230 kV corridor with new structures		See sub-IDs for cost allocations

Required 118		iai Kevenue Kequitemeni	Responsible Cusiomer(s)
b2986.11	Roseland-Branchburg 230 kV corridor rebuild (Roseland - Readington)		PSEG (100%)
b2986.12	Roseland-Branchburg 230kV corridor rebuild (Readington - Branchburg)		JCPL (100%)
b2986.21	Branchburg-Pleasant Valley 230kV corridor rebuild (Branchburg - East Flemington)		PECO (100%)
b2986.22	Branchburg-Pleasant Valley 230kV corridor rebuild (East Flemington - Pleasant Valley)		NEPTUNE (0.77%) / PECO (99.23%)
b2986.23	Branchburg-Pleasant Valley 230kV corridor rebuild (Pleasant Valley - Rocktown)		JCPL (31.39%) / NEPTUNE (5.26%) / PECO (6.68%) / PSEG (54.43%) / RECO (2.23%)
b2986.24	Branchburg-Pleasant Valley 230kV corridor rebuild (the PSEG portion of Rocktown - Buckingham)		JCPL (37.95%) / NEPTUNE (4.70%) / PECO (5.38%) / PSEG (49.92%) / RECO (2.05%)
b3003	Construct a 230/69 kV station at Maywood		PSEG (100%)
b3003.1	Purchase properties at Maywood to accommodate new construction		PSEG (100%)
b3003.2	Extend Maywood 230 kV bus and install one (1) 230 kV breaker		PSEG (100%)
b3003.3	Install one (1) 230/69 kV transformer at Maywood		PSEG (100%)

required 11	ansimission Emiancements Aimi	iai Kevenue Requirement	Responsible Customer(s)
b3003.4	Install Maywood 69 kV ring bus		PSEG (100%)
b3003.5	Construct a 69 kV network between Spring Valley Road, Hasbrouck Heights, and Maywood		PSEG (100%)
b3004	Construct a 230/69/13 kV station by tapping the Mercer – Kuser Rd 230 kV circuit		PSEG (100%)
b3004.1	Install a new Clinton 230 kV ring bus with one (1) 230/69 kV transformer Mercer - Kuser Rd 230 kV circuit		PSEG (100%)
b3004.2	Expand existing 69 kV ring bus at Clinton Ave with two (2) additional 69 kV breakers		PSEG (100%)
b3004.3	Install two (2) 69/13 kV transformers at Clinton Ave		PSEG (100%)
b3004.4	Install 18 MVAR capacitor bank at Clinton Ave 69 kV		PSEG (100%)
b3025	Construct two (2) new 69/13 kV stations in the Doremus area and relocate the Doremus load to the new stations		PSEG (100%)

b3025.1	Install a new 69/13 kV station (Vauxhall) with a ring bus configuration		PSEG (100%)
b3025.2	Install a new 69/13 kV station (19th Ave) with a ring bus configuration		PSEG (100%)
b3025.3	Construct a 69 kV network between Stanley Terrace, Springfield Road, McCarter, Federal Square, and the two new stations (Vauxhall & 19th Ave)		PSEG (100%)

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required I		al Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieive a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

		The second of th	responsible editioner(s)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: APS (43.13%) / Dominion (56.87%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required T	ransmission Enhancements A	Annual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required T	ransmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
	Replace 4.5 miles of		
b2458.5	conductor between		
	Carolina 115 kV and		
	Jackson DP 115 kV with		
	min. 300 MVA summer		
02430.3	STE rating; Replace 8		Dominion (100%)
	wood H-frame structures		
	located between Carolina		
	and Jackson DP with steel		
	H-frames		
	Replace Hanover 230 kV		
b2460.1	substation line switches		Dominion (100%)
	with 3000A switches		Dominion (100%)
	Replace wave traps at		
	Four River 230 kV and		
b2460.2	Elmont 230 kV		Dominion (100%)
	substations with 3000A		Dominion (10070)
	wave traps		
	Wreck and rebuild		
10461	existing Remington CT –		
b2461	Warrenton 230 kV		Dominion (100%)
	(approx. 12 miles) as a		2 0111111011 (10070)
	double-circuit 230 kV line	<u> </u>	
	Construct a new 230 kV		
	line approximately 6 miles	8	
b2461.1	from NOVEC's Wheeler		D(1000/)
02.0111	Substation a new 230 kV		Dominion (100%)
	switching station in Vint Hill area		
	Convert NOVEC's		
b2461.2	Gainesville – Wheeler line		
	(approximately 6 miles) to		Dominion (1000/)
	230 kV	′	Dominion (100%)
	Complete a Vint Hill –		+
b2461.3	Wheeler – Loudoun 230		
04401.3	kV networked line		Dominion (100%)
1	it i not it office fine	l	

Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer

Welco tap to Line #32.

Moving Welco to Line
#32 requires disabling
auto-sectionalizing
scheme
Install structures in river
to remove the 115 kV #65
line (Whitestone-Harmony

Village 115 kV) from

bridge and improve reliability of the line Replace the Loudoun 500 kV 'H2T502' breaker with

a 50kA breaker
Replace the Loudoun 500

kV 'H2T584' breaker with

a 50kA breaker

b2504

b2505

b2542

b2543

Load-Ration Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / Replace Midlothian 500 ConEd (0.55%) / Dayton kV breaker 563T576 and (2.02%) / DEOK (3.15%) / motor operated switches DL (1.72%) / Dominion with 3 breaker 500 kV ring bus. Terminate Lines (13.30%) / DPL (2.53%) / b2471 # 563 Carson -ECP** (0.20%) / EKPC Midlothian, #576 (2.14%) / HTP*** (0.20%) / Midlothian –North Anna, JCPL (3.57%) / ME (1.72%) Transformer #2 in new / NEPTUNE (0.41%) / ring PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

(5.89%) / RE (0.24%) **DFAX Allocation:**Dominion (100%)

Dominion (100%)

Dominion (100%)

Dominion (100%)

Dominion (100%)

Required 1	ransmission Ennancements	Annual Revenue Requirement	Responsible Customer(s)
b2565	Replace wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles or existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)
b2582	Rebuild the Elmont – Cunningham 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation:
			BGE (6.39%) / Dominion (81.64%) / PEPCO (11.97%)
b2583	Install 500 kV breaker at Ox Substation to remove Ox Tx#1 from H1T561 breaker failure outage.		Dominion (100%)
b2584	Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and Cartersville distribution station to #2027 (Bremo- Midlothian 230 kV) line		Dominion (100%)

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b2585	Reconductor 7.63 miles of existing line between Cranes and Stafford, upgrade associated line switches at Stafford		PEPCO (100%)
b2636	Install three 230 kV bus breakers and 230 kV, 100 MVAR Variable Shunt Reactor at Dahlgren to provide line protection during maintenance, remove the operational hazard and provide voltage reduction during light load conditions		Dominion (100%)

Required Tr	ansmission Enhancements Anr	nual Revenue Requirement	Responsible Customer(s)
b2647	Rebuild Boydton Plank Rd - Kerr Dam 115 kV Line #38 (8.3 miles) to current standards with summer		Dominion (100%)
	emergency rating of 353 MVA at 115 kV.		
b2648	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7 miles) to current standards with summer emergency rating of 353		Dominion (100%)
	MVÁ 115 kV.		
b2649	Rebuild Clubhouse – Carolina 115 kV Line #130 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)

Required 11a		iual Revenue Requirement	Responsible Customer(s)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three- breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)
b2686	Pratts Area Improvement		Dominion (100%)
b2686.1	Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW		Dominion (100%)
b2686.11	Upgrading sections of the Gordonsville – Somerset 115 kV circuit		Dominion (100%)
b2686.12	Upgrading sections of the Somerset – Doubleday 115 kV circuit		Dominion (100%)
b2686.13	Upgrading sections of the Orange – Somerset 115 kV circuit		Dominion (100%)
b2686.14	Upgrading sections of the Mitchell – Mt. Run 115 kV circuit		Dominion (100%)
b2686.2	Install a 3rd 230/115 kV transformer at Gordonsville Substation		Dominion (100%)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)

Version: 7.5.0

Effective Date: April 14, 2016

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 1		al Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

required	Tansmission Emancements A	Thirdar Revenue Requirement	Responsible Customer(s)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		(56.87%) Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required T	ransmission Enhancements A	Annual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA	•	Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1	ransmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
	Replace 4.5 miles of		
	conductor between		
	Carolina 115 kV and		
	Jackson DP 115 kV with		
b2458.5	min. 300 MVA summer		
02430.3	STE rating; Replace 8		Dominion (100%)
	wood H-frame structures		
	located between Carolina		
	and Jackson DP with steel		
	H-frames		
	Replace Hanover 230 kV		
b2460.1	substation line switches		Dominion (100%)
	with 3000A switches		Dominion (100%)
	Replace wave traps at		
	Four River 230 kV and		
b2460.2	Elmont 230 kV		Dominion (100%)
	substations with 3000A		Dominion (10070)
	wave traps		
	Wreck and rebuild		
10461	existing Remington CT –		
b2461	Warrenton 230 kV		Dominion (100%)
	(approx. 12 miles) as a		2 0111111011 (10070)
	double-circuit 230 kV line	<u> </u>	
	Construct a new 230 kV		
	line approximately 6 miles	5	
b2461.1	from NOVEC's Wheeler		D(1000/)
	Substation a new 230 kV		Dominion (100%)
	switching station in Vint Hill area		
	Convert NOVEC's		
	Gainesville – Wheeler line		
b2461.2	(approximately 6 miles) to		Dominion (1000/)
	230 kV	′	Dominion (100%)
	Complete a Vint Hill –		+
b2461.3	Wheeler – Loudoun 230		
02401.3	kV networked line		Dominion (100%)
1	it i not it office fine		

Required 1	ransmission Enhancements A	nnual Revenue Requirement	Responsible Customer(s)
b2471	Replace Midlothian 500 kV breaker 563T576 and motor operated switches with 3 breaker 500 kV ring bus. Terminate Lines # 563 Carson – Midlothian, #576 Midlothian –North Anna, Transformer #2 in new ring		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation:
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto-sectionalizing scheme		Dominion (100%) Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line		Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker		Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker		Dominion (100%)

Required 1	ransmission Enhancements A	Annual Revenue Requirement	Responsible Customer(s)
b2565	Replace wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)
b2582	Rebuild the Elmont – Cunningham 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: BGE (6.39%) / Dominion (81.64%) / PEPCO (11.97%)
b2583	Install 500 kV breaker at Ox Substation to remove Ox Tx#1 from H1T561 breaker failure outage.		Dominion (100%)
b2584	Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and Cartersville distribution station to #2027 (Bremo- Midlothian 230 kV) line		Dominion (100%)

b2585	Reconductor 7.63 miles of existing line between Cranes and Stafford, upgrade associated line switches at Stafford	PEPCO (100%)
b2620	Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; minimum rating 239 MVA normal/emergency, 275 MVA load dump rating	Dominion (100%)

Required 1		nual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required T		al Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82	-	
1.2620	Everetts – Voice of America		
	(20.8 miles) to current		D(1000/)
b2628	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		` ′
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
b2620	GSU units #4 and #5. Install		Daminian (1000/)
b2630	two 230 kV CCVT's on		Dominion (100%)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
	standards with summer		
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
L2649	Dam 115 kV Line #90 (38.7		Daminian (1000/)
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		
	rating of 353 MVA 115 kV. Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
	(17.8 miles) to current		
b2649	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Twittys Creek –		
	Pamplin 115 kV Line #154		
10.55	(17.8 miles) to current		
b2650	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
L			L

Required 118		iai Kevenue Kequirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

b2665 Rebuild the Cunningham	required 110		iai Revenue Requirement	responsible eustomer(s)
APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.25%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPOK (3.15%) / DL (1.72%) / DEOK (3.15%) / DL (1.72%) / DEOK (3.15%) / DL (1.72%) / DEOK (2.14%) / HTP*** (0.20%) / ECP*** (0.20%) / ECP*** (0.20%) / ECP*** (0.23%) / ME (1.72%) / NEPTUNE** (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PE (0.24%) DFAX Allocation: Dominion (71.81%) / PEPCO (28.19%)				
BGE (4.12%) / ComEd (12.38%) / ConEd (12.38%) / Domit (2.02%) / DeDK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / ECP** (0.20%) / ECP** (0.20%) / ICPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%)				AEC (1.57%) / AEP (15.18%) /
December Content Con				APS (5.89%) / ATSI (7.59%) /
Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / ERPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE** (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PECO (4.97%) / PENELEC (1.86%) / PEGO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: Dominion (71.81%) / PEPCO (28.19%)				BGE (4.12%) / ComEd
Bebuild the Cunningham				(12.38%) / ConEd (0.55%) /
Rebuild the Cunningham				Dayton (2.02%) / DEOK
December 2009 December 200				(3.15%) / DL (1.72%) / DPL
Dooms 500 kV line				(2.53%) / Dominion (13.30%) /
Dooms 300 kV line	h2665	Rebuild the Cunningham –		ECP** (0.20%) / EKPC
NEPTUNE* (0.41%) / PECO	02003	Dooms 500 kV line		(2.14%) / HTP*** (0.20%) /
(4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%)				JCPL (3.57%) / ME (1.72%) /
b2686.12 Definition (100%) b2686.13 Definition (100%) Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW Upgrading sections of the Somerset 115 kV circuit Dominion (100%)				NEPTUNE* (0.41%) / PECO
Description				(4.97%) / PENELEC (1.86%) /
b2686.12				PEPCO (3.85%) / PPL (4.95%)
b2686.1 Pratts Area Improvement Dominion (71.81%) / PEPCO (28.19%) Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW Upgrading sections of the Gordonsville – Somerset 115 kV circuit Upgrading sections of the Somerset – Doubleday 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Install a 3rd 230/115 kV transformer at Gordonsville Substation Upgrade Line 2088 between Gordonsville Substation and Louisa CT Dominion (100%)				/ PSEG (5.89%) / RE (0.24%)
b2686 Pratts Area Improvement Dominion (100%) Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW Upgrading sections of the Gordonsville – Somerset 115 kV circuit Upgrading sections of the Somerset – Doubleday 115 kV circuit Upgrading sections of the b2686.12 Upgrading sections of the b2686.13 Orange – Somerset 115 kV circuit Upgrading sections of the b2686.14 Upgrading sections of the b2686.2 Upgrading sections of the Dominion (100%) Upgrading sections of the Upgrading sections of the Dominion (100%) Upgrading sections of the Upgrading sections of the Dominion (100%) Upgrading sections of the Upgrading sections of t				DFAX Allocation:
b2686 Pratts Area Improvement Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW Upgrading sections of the Gordonsville – Somerset 115 kV circuit Upgrading sections of the Somerset – Doubleday 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrade Line 2088 between Gordonsville Substation and Louisa CT Dominion (100%)				Dominion (71.81%) / PEPCO
Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW Upgrading sections of the Gordonsville – Somerset 115 kV circuit Upgrading sections of the Somerset – Doubleday 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Dominion (100%)				(28.19%)
Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW Upgrading sections of the Gordonsville – Somerset 115 kV circuit Upgrading sections of the Somerset – Doubleday 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Dominion (100%)	b2686	Pratts Area Improvement		Dominion (100%)
b2686.1 Remington Substation to Gordonsville Substation utilizing existing ROW Upgrading sections of the Gordonsville – Somerset 115 kV circuit Upgrading sections of the Somerset – Doubleday 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Upgrading sections of the Dominion (100%) Upgrading sections of the Dominion (100%) Substation Upgrading sections of the Dominion (100%) Dominion (100%)	02000	•		Dominion (100%)
Gordonsville Substation utilizing existing ROW Upgrading sections of the Gordonsville – Somerset 115 kV circuit Upgrading sections of the Somerset – Doubleday 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Install a 3rd 230/115 kV transformer at Gordonsville Substation Upgrade Line 2088 between Gordonsville Substation and Louisa CT Dominion (100%) Dominion (100%) Dominion (100%)				
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Upgrading sections of the Gordonsville – Somerset 115 kV circuit Upgrading sections of the Somerset – Doubleday 115 kV circuit Upgrading sections of the Somerset – Doubleday 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Install a 3rd 230/115 kV transformer at Gordonsville Substation Upgrade Line 2088 between Gordonsville Substation and Louisa CT Dominion (100%) Dominion (100%) Dominion (100%)				` ,
b2686.11 Gordonsville – Somerset 115 kV circuit Upgrading sections of the Somerset – Doubleday 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the b2686.13 Upgrading sections of the b2686.14 Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Install a 3rd 230/115 kV transformer at Gordonsville Substation Upgrade Line 2088 between Gordonsville Substation and Louisa CT Dominion (100%) Dominion (100%) Dominion (100%)		Upgrading sections of the		
Upgrading sections of the Somerset - Doubleday 115 RV circuit	b2686.11	Gordonsville – Somerset		Dominion (100%)
b2686.12 Somerset – Doubleday 115 kV circuit Upgrading sections of the b2686.13 Orange – Somerset 115 kV circuit Upgrading sections of the b2686.14 Mitchell – Mt. Run 115 kV circuit Install a 3rd 230/115 kV b2686.2 transformer at Gordonsville Substation Upgrade Line 2088 between Gordonsville Substation and Louisa CT Dominion (100%) Dominion (100%) Dominion (100%)				
kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Install a 3rd 230/115 kV transformer at Gordonsville Substation Upgrade Line 2088 between Gordonsville Substation and Louisa CT kV circuit Dominion (100%) Dominion (100%) Dominion (100%)	b2686 12	Somerset Doubleday 115		Dominion (100%)
Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Install a 3rd 230/115 kV transformer at Gordonsville Substation Upgrade Line 2088 between Gordonsville Substation and Louisa CT Upgrading sections of the Dominion (100%) Dominion (100%) Dominion (100%)	02000.12			Dominion (100%)
circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Install a 3rd 230/115 kV transformer at Gordonsville Substation Upgrade Line 2088 between Gordonsville Substation and Louisa CT Dominion (100%) Dominion (100%)		Upgrading sections of the		
b2686.14 Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Install a 3rd 230/115 kV transformer at Gordonsville Substation Upgrade Line 2088 between Gordonsville Substation and Louisa CT Upgrading sections of the Dominion (100%) Dominion (100%) Dominion (100%)	b2686.13			Dominion (100%)
b2686.14 Mitchell – Mt. Run 115 kV circuit Install a 3rd 230/115 kV transformer at Gordonsville Substation Upgrade Line 2088 between Gordonsville Substation and Louisa CT Dominion (100%) Dominion (100%)		l l		
circuit Install a 3rd 230/115 kV transformer at Gordonsville Substation Upgrade Line 2088 between Gordonsville Substation and Louisa CT Dominion (100%) Dominion (100%)	b2686 14			Dominion (100%)
Install a 3rd 230/115 kV transformer at Gordonsville Substation Upgrade Line 2088 between Gordonsville Substation and Louisa CT Dominion (100%) Dominion (100%)	02000.14			Dominion (100%)
Substation Upgrade Line 2088 between Gordonsville Substation and Louisa CT Dominion (100%)		Install a 3rd 230/115 kV		
b2686.3 Upgrade Line 2088 between Gordonsville Substation and Louisa CT Dominion (100%)	b2686.2			Dominion (100%)
b2686.3 between Gordonsville Substation and Louisa CT Dominion (100%)				
Substation and Louisa CT Dominion (100%)				
	b2686.3			Dominion (100%)
Station		Station		

^{*}Neptune Regional Transmission System, LLC

** East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Version: 8.3.0

Effective Date: June 16, 2016

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required I		al Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

required	ransmission Ennancements A	annuai Revenue Requirement	Responsible Customer(s)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: APS (43.13%) / Dominion
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		(56.87%) Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

required 1		nnuai Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1		uniuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

required 1	ransmission enhancements A	inuai Revenue Requirement	Responsible Customer(s)
b2471	Replace Midlothian 500 kV breaker 563T576 and motor operated switches with 3 breaker 500 kV ring bus. Terminate Lines # 563 Carson – Midlothian, #576 Midlothian –North Anna, Transformer #2 in new ring		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%)
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto-sectionalizing scheme		Dominion (100%) Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line		Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker		Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker		Dominion (100%)

Required 1	Tansmission Emancements A	annuai Revenue Requirement	Responsible Customer(s)
b2565	Replace wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)
b2582	Rebuild the Elmont – Cunningham 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: BGE (6.39%) / Dominion (81.64%) / PEPCO (11.97%)
b2583	Install 500 kV breaker at Ox Substation to remove Ox Tx#1 from H1T561 breaker failure outage.		Dominion (100%)
b2584	Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and Cartersville distribution station to #2027 (Bremo- Midlothian 230 kV) line		Dominion (100%)

			1 /
b2585	Reconductor 7.63 miles of existing line between Cranes and Stafford, upgrade associated line switches at Stafford		PEPCO (100%)
b2620	Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; minimum rating 239 MVA normal/emergency, 275 MVA load dump rating		Dominion (100%)

Required 1		nual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required T	ransmission Enhancements Annu	al Revenue Requirement	Responsible Customer(s)
b2628	Rebuild 115 kV Line #82 Everetts – Voice of America (20.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2629	Rebuild the 115 kV Lines #27 and #67 lines from Greenwich 115 kV to Burton 115 kV Structure 27/280 to current standard with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2630	Install circuit switchers on Gravel Neck Power Station GSU units #4 and #5. Install two 230 kV CCVT's on Lines #2407 and #2408 for loss of source sensing		Dominion (100%)
b2636	Install three 230 kV bus breakers and 230 kV, 100 MVAR Variable Shunt Reactor at Dahlgren to provide line protection during maintenance, remove the operational hazard and provide voltage reduction during light load conditions		Dominion (100%)
b2647	Rebuild Boydton Plank Rd – Kerr Dam 115 kV Line #38 (8.3 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2648	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7 miles) to current standards with summer emergency rating of 353 MVA 115 kV.		Dominion (100%)
b2649	Rebuild Clubhouse – Carolina 115 kV Line #130 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

required 118		iai Kevenue Kequirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

required 110	distribusion Emigricements Annu	ar revenue requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd
			(12.38%) / ConEd (0.55%) /
			Dayton (2.02%) / DEOK
			(3.15%) / DL (1.72%) / DPL
			(2.53%) / Dominion (13.30%) /
b2665	Rebuild the Cunningham –		ECP** (0.20%) / EKPC
02003	Dooms 500 kV line		(2.14%) / HTP*** (0.20%) /
			JCPL (3.57%) / ME (1.72%) /
			NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%)
			/ PSEG (5.89%) / RE (0.24%)
		DFAX Allocation:	
		Dominion (71.81%) / PEPCO	
			(28.19%)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to		Dominion (100%)
02000.1	Gordonsville Substation utilizing existing ROW		2011111011 (10070)
	Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit		, , ,
b2686.12	Upgrading sections of the Somerset – Doubleday 115		Dominion (100%)
02080.12	kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	circuit		
b2686.14	Upgrading sections of the Mitchell – Mt. Run 115 kV		Dominion (100%)
02000.14	circuit		Dominion (100%)
	Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
	Substation		

^{*}Neptune Regional Transmission System, LLC ** East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

			1 \ /
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty	(35) ECI (2.5) PI	AEC (1.96%) / BGE (14.37%) / Dominion 5.11%) / DPL (3.76%) / P (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME 1%) / Neptune (0.63%) / ECO (6.26%) / PEPCO (0.23%) / PPL (3.94%) /PSEG (7.29%)

Version: 9.3.0

Effective Date: November 30, 2016

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 1		al Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

1		Tresponsible Customer(s)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA	Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA	Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA	Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA	Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA	Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA	Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA	Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

required 1		nnuai Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1	ransmission Enhancements A	Annuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

required i	Tarismission Emilancements A	responsible edistorrer(s)
b2471	Replace Midlothian 500 kV breaker 563T576 and motor operated switches with 3 breaker 500 kV ring bus. Terminate Lines # 563 Carson – Midlothian, #576 Midlothian –North Anna, Transformer #2 in new ring	Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation:
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto-sectionalizing scheme	Dominion (100%) Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line	Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker	Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker	Dominion (100%)

required 1	Tansinission Enhancements A	illidal Kevellde Kequilelliell	Responsible Customer(s)
b2565	Replace wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)
b2582	Rebuild the Elmont – Cunningham 500 kV line		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%)
			DFAX Allocation: BGE (6.39%) / Dominion (81.64%) / PEPCO (11.97%)
b2583	Install 500 kV breaker at Ox Substation to remove Ox Tx#1 from H1T561 breaker failure outage.		Dominion (100%)
b2584	Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and Cartersville distribution station to #2027 (Bremo- Midlothian 230 kV) line		Dominion (100%)

		1	1
b2585	Reconductor 7.63 miles of existing line between Cranes and Stafford, upgrade associated line switches at Stafford		PEPCO (100%)
b2620	Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; minimum rating 239 MVA normal/emergency, 275 MVA load dump rating		Dominion (100%)

Required 1		nuai Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required T	ransmission Enhancements Annu	al Revenue Requirement	Responsible Customer(s)
b2628	Rebuild 115 kV Line #82 Everetts – Voice of America (20.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2629	Rebuild the 115 kV Lines #27 and #67 lines from Greenwich 115 kV to Burton 115 kV Structure 27/280 to current standard with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2630	Install circuit switchers on Gravel Neck Power Station GSU units #4 and #5. Install two 230 kV CCVT's on Lines #2407 and #2408 for loss of source sensing		Dominion (100%)
b2636	Install three 230 kV bus breakers and 230 kV, 100 MVAR Variable Shunt Reactor at Dahlgren to provide line protection during maintenance, remove the operational hazard and provide voltage reduction during light load conditions		Dominion (100%)
b2647	Rebuild Boydton Plank Rd – Kerr Dam 115 kV Line #38 (8.3 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2648	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7 miles) to current standards with summer emergency rating of 353 MVA 115 kV.		Dominion (100%)
b2649	Rebuild Clubhouse – Carolina 115 kV Line #130 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Required 118		iai Kevenue Kequirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

required Tre	distrission Linarecticits Annie	iai Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.57%) / AEP (15.18%) /
			APS (5.89%) / ATSI (7.59%) /
			BGE (4.12%) / ComEd
			(12.38%) / ConEd (0.55%) /
			Dayton (2.02%) / DEOK
			(3.15%) / DL (1.72%) / DPL
			(2.53%) / Dominion (13.30%) /
b2665	Rebuild the Cunningham –		ECP** (0.20%) / EKPC
02003	Dooms 500 kV line		(2.14%) / HTP*** (0.20%) /
			JCPL (3.57%) / ME (1.72%) /
			NEPTUNE* (0.41%) / PECO
			(4.97%) / PENELEC (1.86%) /
			PEPCO (3.85%) / PPL (4.95%)
			/ PSEG (5.89%) / RE (0.24%)
			DFAX Allocation:
		Dominion (71.81%) / PEPCO	
			(28.19%)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to		Dominion (100%)
02000.1	Gordonsville Substation utilizing existing ROW		Dominion (10070)
	Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit		, , ,
b2686.12	Upgrading sections of the Somerset – Doubleday 115		Dominion (100%)
02000.12	kV circuit		Dollillion (100%)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	circuit Ungrading sections of the		
b2686.14	Upgrading sections of the Mitchell – Mt. Run 115 kV		Dominion (100%)
02000.14	circuit		20111111011 (10070)
	Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
	Substation		

^{*}Neptune Regional Transmission System, LLC
** East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Required 11	ansimission Enhancements	Annuai Revenue Requireme	the Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.96%) / BGE (14.37%) / Dominion (35.11%) / DPL (3.76%) / ECP (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME (2.51%) / Neptune (0.63%) / PECO (6.26%) / PEPCO (20.23%) / PPL (3.94%) /PSEG (7.29%)

110 401100 111		au revenue requiremen	responsible editionier(s)
b2744	Rebuild the Carson – Rogers Rd 500 kV circuit		Load-Ratio Share Allocation: AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) DFAX Allocation: Dominion (100%)
b2745	Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV		Dominion (100%)

Version: 10.2.0

Effective Date: January 1, 2017

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required T		al Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share** Allocation: **Load-Ratio Share** Allocation: AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK Build a 2nd Loudoun -Brambleton 500 kV line (3.35%) / DL (1.76%) / within the existing ROW. Dominion (12.32%) / DPL The Loudoun b2373 (2.60%) / ECP** (0.20%) / Brambleton 230 kV line EKPC (1.82%) / HTP*** will be relocated as an (0.20%) / JCPL (3.76%) / ME underbuild on the new 500 kV line (1.86%) / NEPTUNE* (0.42%) / PECO (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** APS (35.00%) / BGE (16.48%) / Dominion (48.52%)Replace the Beaumeade b2397 230 kV breaker Dominion (100%) '2079T2116' with 63kA Replace the Beaumeade b2398 230 kV breaker Dominion (100%) '2079T2130' with 63kA Replace the Beaumeade 230 kV breaker '208192' b2399 Dominion (100%) with 63kA Replace the Beaumeade b2400 230 kV breaker '209592' Dominion (100%) with 63kA Replace the Beaumeade b2401 230 kV breaker '211692' Dominion (100%) with 63kA Replace the Beaumeade 230 kV breaker b2402 Dominion (100%) '227T2130' with 63kA Replace the Beaumeade 230 kV breaker b2403 Dominion (100%) '274T2130' with 63kA

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

required 1		nnuai Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1		Annuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel		Dominion (100%)
b2460.1	H-frames Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line	,	Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK Replace Midlothian 500 kV (3.35%) / DL (1.76%) / breaker 563T576 and motor Dominion (12.32%) / DPL operated switches with 3 (2.60%) / ECP** (0.20%) / breaker 500 kV ring bus. b2471 Terminate Lines # 563 Carson EKPC (1.82%) / HTP*** – Midlothian, #576 (0.20%) / JCPL (3.76%) / ME Midlothian -North Anna, (1.86%) / NEPTUNE* Transformer #2 in new ring (0.42%) / PECO (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** Dominion (100%) Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA b2504 and transfer Welco tap to Line Dominion (100%) #32. Moving Welco to Line #32 requires disabling autosectionalizing scheme Install structures in river to remove the 115 kV #65 line b2505 (Whitestone-Harmony Village Dominion (100%) 115 kV) from bridge and improve reliability of the line Replace the Loudoun 500 kV b2542 'H2T502' breaker with a Dominion (100%) 50kA breaker Replace the Loudoun 500 kV H2T584' breaker with a b2543 Dominion (100%) 50kA breaker Reconductor wave trap at b2565 Carver Substation with a Dominion (100%) 2000A wave trap Reconductor 1.14 miles of existing line between ACCA b2566 and Hermitage and upgrade Dominion (100%) associated terminal equipment

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL (1.76%) / Dominion (12.32%) / DPL (2.60%) / ECP** (0.20%) / Rebuild the Elmont – EKPC (1.82%) / HTP*** b2582 Cunningham 500 kV line (0.20%) / JCPL (3.76%) / ME (1.86%) / NEPTUNE* (0.42%) / PECO (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** Dominion (93.16%) / PEPCO (6.84%)Install 500 kV breaker at Ox Substation to remove b2583 Dominion (100%) Ox Tx#1 from H1T561 breaker failure outage. Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville b2584 230 kV) line and Dominion (100%) Cartersville distribution station to #2027 (Bremo-Midlothian 230 kV) line Reconductor 7.63 miles of existing line between Cranes and Stafford, b2585 PEPCO (100%) upgrade associated line switches at Stafford Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; b2620 Dominion (100%) minimum rating 239 MVA normal/emergency, 275 MVA load dump rating

Required 1		inual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required T		ual Revenue Requirement	Responsible Customer(s)
b2628	Rebuild 115 kV Line #82 Everetts – Voice of America (20.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2629	Rebuild the 115 kV Lines #27 and #67 lines from Greenwich 115 kV to Burton 115 kV Structure 27/280 to current standard with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2630	Install circuit switchers on Gravel Neck Power Station GSU units #4 and #5. Install two 230 kV CCVT's on Lines #2407 and #2408 for loss of source sensing		Dominion (100%)
b2636	Install three 230 kV bus breakers and 230 kV, 100 MVAR Variable Shunt Reactor at Dahlgren to provide line protection during maintenance, remove the operational hazard and provide voltage reduction during light load conditions		Dominion (100%)
b2647	Rebuild Boydton Plank Rd – Kerr Dam 115 kV Line #38 (8.3 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2648	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7 miles) to current standards with summer emergency rating of 353 MVA 115 kV.		Dominion (100%)
b2649	Rebuild Clubhouse – Carolina 115 kV Line #130 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Required Tra	ansmission Enhancements Annu	aal Revenue Requirement	Responsible Customer(s)
	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current		
b2651	standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Required 11	ansmission Enhancements Anni	uai Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.69%) / AEP (14.17%)
			/ APS (5.50%) / ATSI (8.04%)
			/ BGE (4.16%) / ComEd
			(13.35%) / ConEd (0.57%) /
			Dayton (2.11%) / DEOK
			(3.35%) / DL (1.76%) /
			Dominion (12.32%) / DPL
1.0665	Rebuild the Cunningham –		(2.60%) / ECP** (0.20%) /
b2665	Dooms 500 kV line		EKPC (1.82%) / HTP***
			(0.20%) / JCPL (3.76%) / ME
			(1.86%) / NEPTUNE*
			(0.42%) / PECO (5.27%) /
			PENELEC (1.84%) / PEPCO
			(4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			Dominion (71.81%) / PEPCO
			(28.19%)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
1.2.00.1	Remington Substation to		5 (1000()
b2686.1	Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
1.0000 11	Upgrading sections of the		D :: (1000()
b2686.11	Gordonsville – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
	kV circuit		` '
1.0000 10	Upgrading sections of the		Daminia (1000/)
b2686.13	Orange – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		` '
1-2606.2	Install a 3rd 230/115 kV		Daminia (1000)
b2686.2	transformer at Gordonsville Substation		Dominion (100%)
	Buostation		

^{*}Neptune Regional Transmission System, LLC

^{**} East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Required 11	ansinission Enhancements	Annual Revenue Requireme	ent Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.96%) / BGE (14.37%) / Dominion (35.11%) / DPL (3.76%) / ECP (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME (2.51%) / Neptune (0.63%) / PECO (6.26%) / PEPCO (20.23%) / PPL (3.94%) /PSEG (7.29%)

Required 11	ansinission Enhancements Anni	iai Kevenue Kequirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.69%) / AEP
			(14.17%) / APS (5.50%) /
			ATSI (8.04%) / BGE
			(4.16%) / ComEd (13.35%) /
			ConEd (0.57%) / Dayton
			(2.11%) / DEOK (3.35%) /
			DL (1.76%) / Dominion
1-2744	Rebuild the Carson – Rogers Rd 500 kV circuit		(12.32%) / DPL (2.60%) /
b2744			ECP** (0.20%) / EKPC
			(1.82%) / HTP*** (0.20%) /
			JCPL (3.76%) / ME (1.86%)
			/ NEPTUNE* (0.42%) /
			PECO (5.27%) / PENELEC
			(1.84%) / PEPCO (4.15%) /
			PPL (4.43%) / PSEG
			(6.18%) / RE (0.25%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 21.32 miles of		_
b2745	existing line between Chesterfield – Lakeside		Dominion (100%)
	230 kV		, ,

Version: 11.2.0

Effective Date: April 6, 2017

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required 1	Tansinission Emiancements Amin	ai Kevenue Kequiterneni	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker	Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker	Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker	Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

Required	Transmission Enhancements A	Annual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.69%) / AEP
			(14.17%) / APS (5.50%) /
			ATSI (8.04%) / BGE
			(4.16%) / ComEd (13.35%) /
			ConEd (0.57%) / Dayton
	D 11 2 11 1		(2.11%) / DEOK (3.35%) /
	Build a 2nd Loudoun - Brambleton 500 kV line		DL (1.76%) / Dominion
	within the existing ROW.		(12.32%) / DPL (2.60%) /
1.0070	The Loudoun -		ECP** (0.20%) / EKPC
b2373	Brambleton 230 kV line		(1.82%) / HTP*** (0.20%) /
	will be relocated as an		JCPL (3.76%) / ME (1.86%)
	underbuild on the new 500 kV line		/ NEPTUNE* (0.42%) /
	K V IIIIC		PECO (5.27%) / PENELEC
			(1.84%) / PEPCO (4.15%) /
			PPL (4.43%) / PSEG
			(6.18%) / RE (0.25%)
			DFAX Allocation:
			APS (35.00%) / BGE
			(16.48%) / Dominion
			(48.52%)
	Replace the Beaumeade		
b2397	230 kV breaker		Dominion (100%)
	'2079T2116' with 63kA Replace the Beaumeade		
b2398	230 kV breaker		5 (1001)
02070	'2079T2130' with 63kA		Dominion (100%)
	Replace the Beaumeade		
b2399	230 kV breaker '208192'		Dominion (100%)
	with 63kA Replace the Beaumeade		
b2400	230 kV breaker '209592'		5 (1001)
02.00	with 63kA		Dominion (100%)
	Replace the Beaumeade		
b2401	230 kV breaker '211692'		Dominion (100%)
	with 63kA Replace the Beaumeade		(100/0/
b2402	230 kV breaker		
02.102	'227T2130' with 63kA		Dominion (100%)
	Replace the Beaumeade		
b2403	230 kV breaker		Dominion (100%)
	'274T2130' with 63kA		20mmon (10070)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required T	ransmission Enhancements A	Annual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA	•	Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1	ransmission Enhancements A	Annuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK Replace Midlothian 500 kV breaker 563T576 and motor (3.35%) / DL (1.76%) / DPL operated switches with 3 (2.60%) / ECP** (0.20%) / breaker 500 kV ring bus. b2471 Dominion (12.32%) / EKPC Terminate Lines # 563 Carson (1.82%) / HTP*** (0.20%) / – Midlothian, #576 Midlothian -North Anna, JCPL (3.76%) / ME (1.86%) / Transformer #2 in new ring NEPTUNE* (0.42%) / PECO (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** Dominion (100%) Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA b2504 and transfer Welco tap to Line Dominion (100%) #32. Moving Welco to Line #32 requires disabling autosectionalizing scheme Install structures in river to remove the 115 kV #65 line b2505 (Whitestone-Harmony Village Dominion (100%) 115 kV) from bridge and improve reliability of the line Replace the Loudoun 500 kV H2T502' breaker with a b2542 Dominion (100%) 50kA breaker Replace the Loudoun 500 kV H2T584' breaker with a b2543 Dominion (100%) 50kA breaker Reconductor wave trap at b2565 Carver Substation with a Dominion (100%) 2000A wave trap Reconductor 1.14 miles of existing line between ACCA b2566 and Hermitage and upgrade Dominion (100%) associated terminal equipment

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share** Allocation: AEC (1.69%) / AEP (14.17%) / APS (5.50%) / ATSI (8.04%) / BGE (4.16%) / ComEd (13.35%) / ConEd (0.57%) / Dayton (2.11%) / DEOK (3.35%) / DL (1.76%) / Dominion (12.32%) / DPL (2.60%) / ECP** (0.20%) / Rebuild the Elmont – b2582 Cunningham 500 kV line EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.76%) / ME (1.86%) / NEPTUNE* (0.42%) / PECO (5.27%) / PENELEC (1.84%) / PEPCO (4.15%) / PPL (4.43%) / PSEG (6.18%) / RE (0.25%) **DFAX Allocation:** Dominion (93.16%) / PEPCO (6.84%)Install 500 kV breaker at Ox Substation to remove b2583 Dominion (100%) Ox Tx#1 from H1T561 breaker failure outage. Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville b2584 230 kV) line and Dominion (100%) Cartersville distribution station to #2027 (Bremo-Midlothian 230 kV) line Reconductor 7.63 miles of existing line between b2585 Cranes and Stafford, PEPCO (100%) upgrade associated line switches at Stafford Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line: b2620 Dominion (100%) minimum rating 239 MVA normal/emergency, 275 MVA load dump rating

Kequileu I		inuai Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required T		al Revenue Requirement	Responsible Customer(s)
b2628	Rebuild 115 kV Line #82 Everetts – Voice of America (20.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2629	Rebuild the 115 kV Lines #27 and #67 lines from Greenwich 115 kV to Burton 115 kV Structure 27/280 to current standard with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2630	Install circuit switchers on Gravel Neck Power Station GSU units #4 and #5. Install two 230 kV CCVT's on Lines #2407 and #2408 for loss of source sensing		Dominion (100%)
b2636	Install three 230 kV bus breakers and 230 kV, 100 MVAR Variable Shunt Reactor at Dahlgren to provide line protection during maintenance, remove the operational hazard and provide voltage reduction during light load conditions		Dominion (100%)
b2647	Rebuild Boydton Plank Rd – Kerr Dam 115 kV Line #38 (8.3 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2648	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7 miles) to current standards with summer emergency rating of 353 MVA 115 kV.		Dominion (100%)
b2649	Rebuild Clubhouse – Carolina 115 kV Line #130 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Required 118		dai Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Required 11	ansmission Enhancements Anni	uai Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.69%) / AEP (14.17%)
			/ APS (5.50%) / ATSI (8.04%)
			/ BGE (4.16%) / ComEd
			(13.35%) / ConEd (0.57%) /
			Dayton (2.11%) / DEOK
			(3.35%) / DL (1.76%) /
			Dominion (12.32%) / DPL
1.0665	Rebuild the Cunningham –		(2.60%) / ECP** (0.20%) /
b2665	Dooms 500 kV line		EKPC (1.82%) / HTP***
			(0.20%) / JCPL (3.76%) / ME
			(1.86%) / NEPTUNE*
			(0.42%) / PECO (5.27%) /
			PENELEC (1.84%) / PEPCO
			(4.15%) / PPL (4.43%) /
			PSEG (6.18%) / RE (0.25%)
			DFAX Allocation:
			Dominion (71.81%) / PEPCO
			(28.19%)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
1.2.00.1	Remington Substation to		5 (1000()
b2686.1	Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
1.0000 11	Upgrading sections of the		D :: (1000()
b2686.11	Gordonsville – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
	kV circuit		` '
1.0000 10	Upgrading sections of the		Daminia (1000/)
b2686.13	Orange – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		` '
1-2606.2	Install a 3rd 230/115 kV		Daminia (1000)
b2686.2	transformer at Gordonsville Substation		Dominion (100%)
	Buostation		

^{*}Neptune Regional Transmission System, LLC

^{**} East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Required Transmission Enhancements		Annual Revenue Requirement Responsible Customer(s)	
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.96%) / BGE (14.37%) / Dominion (35.11%) / DPL (3.76%) / ECP (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME (2.51%) / Neptune (0.63%) / PECO (6.26%) / PEPCO (20.23%) / PPL (3.94%) / PSEG (7.29%)

ible Customer(s)
Load-Ratio Share
Allocation:
EC (1.69%) / AEP
17%) / APS (5.50%) /
ΓSI (8.04%) / BGE
6) / ComEd (13.35%) /
Ed (0.57%) / Dayton
%) / DEOK (3.35%) /
.76%) / DPL (2.60%) /
* (0.20%) / Dominion
2%) / EKPC (1.82%) /
P*** (0.20%) / JCPL
'6%) / ME (1.86%) /
EPTUNE* (0.42%) /
) (5.27%) / PENELEC
%) / PEPCO (4.15%) /
PL (4.43%) / PSEG
18%) / RE (0.25%)
FAX Allocation:
Dominion (100%)
Dominion (100%)
Dominion (100%)
(- * * * * * * * * * * * * * * * * * * *
Dominion (100%)
JOHHHIOH (100%)
Dominion (100%)
Dominion (100%)

Version: 12.3.0

Effective Date: May 1, 2017

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

required 1	Talishiission Enhancements Annual Rev	reflue Requirement Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating	Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker	Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker	Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project	Dominion (100%)
b2281	Additional Temporary SPS at Bath County	Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater	Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation	Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station	Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way	Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation	Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker	Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker	Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker	Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

1			responsible customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.70%) / AEP
			(14.25%) / APS (5.53%) /
			ATSI (8.09%) / BGE
			(4.19%) / ComEd (13.43%) /
	Build a 2nd Loudoun -		Dayton (2.12%) / DEOK
			(3.37%) / DL (1.77%) /
	Brambleton 500 kV line		Dominion (12.39%) / DPL
	within the existing ROW.		(2.62%) / ECP** (0.20%) /
b2373	The Loudoun -		EKPC (1.82%) / HTP***
02373	Brambleton 230 kV line		(0.20%) / JCPL (3.78%) /
	will be relocated as an		ME (1.87%) / NEPTUNE*
	underbuild on the new 500 kV line		(0.42%) / PECO (5.30%) /
	K V IIIIC		PENELEC (1.84%) / PEPCO
			` ′
			(4.18%) / PPL (4.46%) /
			PSEG (6.22%) / RE (0.25%)
			DFAX Allocation:
			APS (35.00%) / BGE
			(16.48%) / Dominion
			(48.52%)
	Replace the Beaumeade		
b2397	230 kV breaker		Dominion (100%)
	'2079T2116' with 63kA Replace the Beaumeade		` '
b2398	230 kV breaker		
02070	'2079T2130' with 63kA		Dominion (100%)
	Replace the Beaumeade		
b2399	230 kV breaker '208192'		Dominion (100%)
	with 63kA Replace the Beaumeade		_ = ===================================
b2400	230 kV breaker '209592'		
02400	with 63kA		Dominion (100%)
b2401	Replace the Beaumeade		
	230 kV breaker '211692'		Dominion (100%)
	with 63kA		Dominion (10070)
b2402	Replace the Beaumeade 230 kV breaker		
	'227T2130' with 63kA		Dominion (100%)
	Replace the Beaumeade		
b2403	230 kV breaker		Dominion (100%)
	'274T2130' with 63kA		Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required 1		Annual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker		Dominion (100%)
	'227T2095' with 63kA		Dominion (10070)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1		Annuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel		Dominion (100%)
b2460.1	H-frames Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line	,	Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Replace Midlothian 500 kV breaker 563T576 and motor Dominion (12.39%) / DPL operated switches with 3 (2.62%) / ECP** (0.20%) / breaker 500 kV ring bus. EKPC (1.82%) / HTP*** b2471 Terminate Lines # 563 Carson (0.20%) / JCPL (3.78%) / ME – Midlothian, #576 (1.87%) / NEPTUNE* (0.42%) Midlothian –North Anna, Transformer #2 in new ring / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** Dominion (100%) Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line b2504 Dominion (100%) #32. Moving Welco to Line #32 requires disabling autosectionalizing scheme Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village b2505 Dominion (100%) 115 kV) from bridge and improve reliability of the line Replace the Loudoun 500 kV b2542 'H2T502' breaker with a Dominion (100%) 50kA breaker Replace the Loudoun 500 kV b2543 'H2T584' breaker with a Dominion (100%) 50kA breaker Reconductor wave trap at b2565 Carver Substation with a Dominion (100%) 2000A wave trap Reconductor 1.14 miles of existing line between ACCA b2566 and Hermitage and upgrade Dominion (100%) associated terminal equipment

Required 1	ransmission Enhancements A	nnual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.70%) / AEP
			(14.25%) / APS (5.53%) /
			ATSI (8.09%) / BGE
			(4.19%) / ComEd (13.43%) /
			Dayton (2.12%) / DEOK
			, , ,
			(3.37%) / DL (1.77%) /
			` /
	Rebuild the Flmont –		` '
b2582			` ′
	g		(0.20%) / JCPL (3.78%) /
			ME (1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) /
			` '
			` ′
			` ' '
			` ′
			, , , , , , , , , , , , , , , , , , ,
	Install 500 kV breaker at		FEFCO (0.64%)
b2583			Dominion (100%)
	breaker failure outage.		
	Relocate the Bremo load		
	(transformer #5) to #2028		
1.2.501			7
b2584			Dominion (100%)
	existing line between		
b2585			PEPCO (100%)
	upgrade associated line		, ,
b2620			
	- Bowers Hill - Hodges Forry 115 kV line:		
			Dominion (100%)
	rating		
	Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and Cartersville distribution station to #2027 (Bremo- Midlothian 230 kV) line Reconductor 7.63 miles of existing line between Cranes and Stafford, upgrade associated line switches at Stafford Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; minimum rating 239 MVA normal/emergency, 275 MVA load dump		(0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: Dominion (93.16%) / PEPCO (6.84%) Dominion (100%) Dominion (100%)

Required 1		inual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required T		ual Revenue Requirement	Responsible Customer(s)
b2628	Rebuild 115 kV Line #82 Everetts – Voice of America (20.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2629	Rebuild the 115 kV Lines #27 and #67 lines from Greenwich 115 kV to Burton 115 kV Structure 27/280 to current standard with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2630	Install circuit switchers on Gravel Neck Power Station GSU units #4 and #5. Install two 230 kV CCVT's on Lines #2407 and #2408 for loss of source sensing		Dominion (100%)
b2636	Install three 230 kV bus breakers and 230 kV, 100 MVAR Variable Shunt Reactor at Dahlgren to provide line protection during maintenance, remove the operational hazard and provide voltage reduction during light load conditions		Dominion (100%)
b2647	Rebuild Boydton Plank Rd – Kerr Dam 115 kV Line #38 (8.3 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2648	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7 miles) to current standards with summer emergency rating of 353 MVA 115 kV.		Dominion (100%)
b2649	Rebuild Clubhouse – Carolina 115 kV Line #130 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Required 113		dai Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

	taar Revenue Requirement	Responsible Customer(s)
		Load-Ratio Share
		Allocation:
		AEC (1.70%) / AEP
		(14.25%) / APS (5.53%) /
		ATSI (8.09%) / BGE
		(4.19%) / ComEd (13.43%) /
		Dayton (2.12%) / DEOK
		(3.37%) / DL (1.77%) /
		Dominion (12.39%) / DPL
Rebuild the Cunningham –		(2.62%) / ECP** (0.20%) /
Dooms 500 kV line		EKPC (1.82%) / HTP***
		(0.20%) / JCPL (3.78%) /
		ME (1.87%) / NEPTUNE*
		(0.42%) / PECO (5.30%) /
		PENELEC (1.84%) / PEPCO
		(4.18%) / PPL (4.46%) /
		, , , , , , , , , , , , , , , , , , , ,
		PSEG (6.22%) / RE (0.25%) DFAX Allocation:
		Dominion (71.81%) / PEPCO
		(28.19%)
Pratts Area Improvement		Dominion (100%)
Duild a 220 kV line from		
Gordonsville Substation		Dominion (100%)
Upgrading sections of the		
Gordonsville – Somerset		Dominion (100%)
Somerset – Doubleday 115		Dominion (100%)
		Dominion (100%)
Upgrading sections of the		
Orange – Somerset 115 kV		Dominion (100%)
circuit		
Upgrading sections of the		Dominion (1000/)
		Dominion (100%)
Install a 3rd 230/115 kV		
transformer at Gordonsville		Dominion (100%)
Substation		_ = ===================================
	Pratts Area Improvement Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW Upgrading sections of the Gordonsville – Somerset 115 kV circuit Upgrading sections of the Somerset – Doubleday 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Install a 3rd 230/115 kV transformer at Gordonsville	Rebuild the Cunningham – Dooms 500 kV line Pratts Area Improvement Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW Upgrading sections of the Gordonsville – Somerset 115 kV circuit Upgrading sections of the Somerset – Doubleday 115 kV circuit Upgrading sections of the Orange – Somerset 115 kV circuit Upgrading sections of the Mr. Run 115 kV circuit Upgrading sections of the Mitchell – Mt. Run 115 kV circuit Install a 3rd 230/115 kV transformer at Gordonsville

^{*}Neptune Regional Transmission System, LLC

^{**} East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Required 11	ansimission Enhancements	Allitual Revenue Requireme	ent Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.96%) / BGE (14.37%) / Dominion (35.11%) / DPL (3.76%) / ECP (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME (2.51%) / Neptune (0.63%) / PECO (6.26%) / PEPCO (20.23%) / PPL (3.94%) /PSEG (7.29%)

Required 11	ansmission Enhancements Annua	Revenue Requirement	Responsible Customer(s)
b2744	Rebuild the Carson – Rogers Rd 500 kV circuit		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) DFAX Allocation: Dominion (100%)
b2745	Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV		Dominion (100%)
b2746.1	Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer emergency rating		Dominion (100%)
b2746.2	Rebuild Line #1009 Ridge Rd - Chase City 115 kV, 9.5 miles, for 346 MVA summer emergency rating		Dominion (100%)
b2746.3	Install a second 4.8 MVAR capacitor bank on the 13.8 kV bus of each transformer at Ridge Rd		Dominion (100%)
b2747	Install a Motor Operated Switch and SCADA control between Dominion's Gordonsville 115 kV bus and FirstEnergy's 115 kV line		Dominion (100%)

Version: 13.2.0

Effective Date: June 15, 2017

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required 1	Tansinission Emiancements Amin	ai Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2	2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2	2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2	2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

Allocation: AEC (1.70%) / AEP	1		Tilluai Revenue Requirement	responsible customer(s)
AEC (1.70%) / AEP				Load-Ratio Share
				Allocation:
				AEC (1.70%) / AEP
(14.25%) / APS (5.53%) /				(14.25%) / APS (5.53%) /
ATSI (8.09%) / BGE				ATSI (8.09%) / BGE
(4.19%) / ComEd (13.43%) /				` ′
Dayton (2.12%) / DEOK				` ' '
Build a 2nd Loudoun - (3.37%) / DL (1.77%) /		Ruild a 2nd Loudoun -		
Brambleton 500 kV line Dominion (12.39%) / DPL				` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
within the existing ROW. (2.62%) / ECP** (0.20%) /				
The Loudoun - (2.0270) / ECP (0.2070) / HTD***	h2373	The Loudoun -		
Diamoleton 250 kV line	02373			` ′
will be relocated as an underbuild on the new 500 (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE*				` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
kV line ME (1.87%) / NEFT ONE (0.42%) / PECO (5.30%) /				` ′
(0.12/0)/1200 (0.50/0)/		K v mic		` ' '
PENELEC (1.84%) / PEPCO				` ′
(4.18%) / PPL (4.46%) /				
PSEG (6.22%) / RE (0.25%)				` ' ' ` '
DFAX Allocation:				
APS (35.00%) / BGE				` ′
(16.48%) / Dominion				(16.48%) / Dominion
(48.52%)				(48.52%)
Replace the Beaumeade	1.0005			
b2397 230 kV breaker Dominion (100%)	b2397			Dominion (100%)
'2079T2116' with 63kA Dominion (100%) Replace the Beaumeade				` '
b2308 230 kV breaker	h2398			
02378 230 k v Steaker Dominion (100%)	02000			Dominion (100%)
Replace the Beaumeade				
b2399 230 kV breaker '208192' Dominion (100%)	b2399			Dominion (100%)
WILLIONA				20mmon (10070)
Replace the Beaumeade b2400 230 kV breaker '209592'	b2400			
02400 250 k v bleaker 209392	02400			Dominion (100%)
Replace the Beaumeade				
b2401 230 kV breaker '211692' Daminion (1000)	b2401	230 kV breaker '211692'		Dominion (100%)
02401 250 K V Oretaker 211072 with 63kA Dominion (100%)				Dominion (100%)
Replace the Beaumeade	1.0.400			
b2402	b2402			Dominion (100%)
Replace the Beaumeade	-			` '
b2403	b2403			D (1000()
250 k v bleaker Dominion (100%)	02 103			Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required T	ransmission Enhancements A	Annual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1	ransmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
	Replace 4.5 miles of		
	conductor between		
	Carolina 115 kV and		
	Jackson DP 115 kV with		
b2458.5	min. 300 MVA summer		
02430.3	STE rating; Replace 8		Dominion (100%)
	wood H-frame structures		
	located between Carolina		
	and Jackson DP with steel		
	H-frames		
	Replace Hanover 230 kV		
b2460.1	substation line switches		Dominion (100%)
	with 3000A switches		Dominion (100%)
	Replace wave traps at		
	Four River 230 kV and		
b2460.2	Elmont 230 kV		Dominion (100%)
	substations with 3000A		Dominion (10070)
	wave traps		
	Wreck and rebuild		
10461	existing Remington CT –		
b2461	Warrenton 230 kV		Dominion (100%)
	(approx. 12 miles) as a		2 0111111011 (10070)
	double-circuit 230 kV line	<u> </u>	
	Construct a new 230 kV		
	line approximately 6 miles	8	
b2461.1	from NOVEC's Wheeler		D(1000/)
	Substation a new 230 kV		Dominion (100%)
	switching station in Vint Hill area		
	Convert NOVEC's		
	Gainesville – Wheeler line		
b2461.2	(approximately 6 miles) to		Dominion (1000/)
	230 kV	′	Dominion (100%)
	Complete a Vint Hill –		+
b2461.3	Wheeler – Loudoun 230		
02401.3	kV networked line		Dominion (100%)
1	it i not it office fine	l	

Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line

#32. Moving Welco to Line #32 requires disabling autosectionalizing scheme Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village)

115 kV) from bridge and improve reliability of the line Replace the Loudoun 500 kV

'H2T502' breaker with a

50kA breaker Replace the Loudoun 500 kV

'H2T584' breaker with a

50kA breaker Reconductor wave trap at

Carver Substation with a

2000A wave trap
Reconductor 1.14 miles of existing line between ACCA

and Hermitage and upgrade

associated terminal equipment

b2504

b2505

b2542

b2543

b2565

b2566

Required Transmission Enhancements Annual Revenue Requirement

Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Replace Midlothian 500 kV breaker 563T576 and motor Dominion (12.39%) / DPL operated switches with 3 (2.62%) / ECP** (0.20%) / breaker 500 kV ring bus. EKPC (1.82%) / HTP*** b2471 Terminate Lines # 563 Carson (0.20%) / JCPL (3.78%) / ME – Midlothian, #576 (1.87%) / NEPTUNE* (0.42%) Midlothian –North Anna, Transformer #2 in new ring / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) **DFAX Allocation:** Dominion (100%)

Responsible Customer(s)

Dominion (100%)

Dominion (100%)

Dominion (100%)

Dominion (100%)

Dominion (100%)

Dominion (100%)

Required 1	ransmission Enhancements A	nnual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.70%) / AEP
			(14.25%) / APS (5.53%) /
			ATSI (8.09%) / BGE
			(4.19%) / ComEd (13.43%) /
			Dayton (2.12%) / DEOK
			(3.37%) / DL (1.77%) /
			Dominion (12.39%) / DPL
1.0500	Rebuild the Elmont –		(2.62%) / ECP** (0.20%) /
b2582	Cunningham 500 kV line		EKPC (1.82%) / HTP***
			(0.20%) / JCPL (3.78%) /
			ME (1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) /
			PSEG (6.22%) / RE (0.25%)
			DFAX Allocation:
			Dominion (93.16%) / PEPCO
			(6.84%)
	Install 500 kV breaker at		
b2583	Ox Substation to remove		Dominion (100%)
	Ox Tx#1 from H1T561 breaker failure outage.		, ,
	Relocate the Bremo load		
	(transformer #5) to #2028		
10704	(Bremo-Charlottesville		5 (1000)
b2584	230 kV) line and Cartersville distribution		Dominion (100%)
	station to #2027 (Bremo-		
	Midlothian 230 kV) line		
	Reconductor 7.63 miles of		
10505	existing line between		
b2585	Cranes and Stafford, upgrade associated line		PEPCO (100%)
	switches at Stafford		
	Wreck and rebuild the		
	Chesapeake – Deep Creek		
b2620	– Bowers Hill – Hodges		
	Ferry 115 kV line;		Dominion (100%)
	minimum rating 239 MVA normal/emergency,		` ′
	275 MVA load dump		
	rating		

Required 1		nual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required T	ransmission Enhancements Annu	al Revenue Requirement	Responsible Customer(s)
b2628	Rebuild 115 kV Line #82 Everetts – Voice of America (20.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2629	Rebuild the 115 kV Lines #27 and #67 lines from Greenwich 115 kV to Burton 115 kV Structure 27/280 to current standard with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2630	Install circuit switchers on Gravel Neck Power Station GSU units #4 and #5. Install two 230 kV CCVT's on Lines #2407 and #2408 for loss of source sensing		Dominion (100%)
b2636	Install three 230 kV bus breakers and 230 kV, 100 MVAR Variable Shunt Reactor at Dahlgren to provide line protection during maintenance, remove the operational hazard and provide voltage reduction during light load conditions		Dominion (100%)
b2647	Rebuild Boydton Plank Rd – Kerr Dam 115 kV Line #38 (8.3 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2648	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7 miles) to current standards with summer emergency rating of 353 MVA 115 kV.		Dominion (100%)
b2649	Rebuild Clubhouse – Carolina 115 kV Line #130 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Required Tra		iai Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

b2665 Rebuild the Cunningham – Dooms 500 kV line Rebuild the Cunningham (0.20%) / JCPL (3.78%) / B2665 Rebuild the Cunningham (0.20%) / JCPL (3.78%) / EKPC (1.82%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO
b2665 Rebuild the Cunningham – Dooms 500 kV line AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) /
b2665 Rebuild the Cunningham – Dooms 500 kV line Beautiful Control of the Contr
B2665 Rebuild the Cunningham – Dooms 500 kV line B2665 Rebuild the Cunningham – Dooms 500 kV line ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) /
b2665 Rebuild the Cunningham – Dooms 500 kV line (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) /
b2665 Rebuild the Cunningham – Dooms 500 kV line Rebuild the Cunningham – Dooms 500 kV line Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) /
b2665 Rebuild the Cunningham – Dooms 500 kV line Rebuild the Cunningham – Dooms 500 kV line Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) /
b2665 Rebuild the Cunningham – Dooms 500 kV line Rebuild the Cunningham – Dooms 500 kV line (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) /
b2665 Rebuild the Cunningham – Dooms 500 kV line Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) /
b2665 Rebuild the Cunningham – Dooms 500 kV line (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) /
Dooms 500 kV line EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) /
(0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) /
ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) /
(0.42%) / PECO (5.30%) /
(4.18%) / PPL (4.46%) /
PSEG (6.22%) / RE (0.25%)
DFAX Allocation:
Dominion (71.81%) / PEPCO
(28.19%)
b2686 Pratts Area Improvement Dominion (100%)
Build a 230 kV line from
b2686.1 Remington Substation to Gordonsville Substation Dominion (100%)
utilizing existing ROW
Upgrading sections of the
b2686.11 Gordonsville – Somerset Dominion (100%)
115 kV circuit
Upgrading sections of the b2686.12 Somerset – Doubleday 115 Dominion (100%)
kV circuit
Upgrading sections of the
b2686.13 Orange – Somerset 115 kV Dominion (100%)
circuit
Upgrading sections of the
b2686.14 Mitchell – Mt. Run 115 kV Dominion (100%)
Install a 3rd 230/115 kV
b2686.2 transformer at Gordonsville Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

^{**} East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Required 11	ansinission Enhancements	Annuai Revenue Requireme	the Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.96%) / BGE (14.37%) / Dominion (35.11%) / DPL (3.76%) / ECP (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME (2.51%) / Neptune (0.63%) / PECO (6.26%) / PEPCO (20.23%) / PPL (3.94%) /PSEG (7.29%)

Required 11	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2744	Rebuild the Carson – Rogers Rd 500 kV circuit		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%)
b2745	Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV		Dominion (100%)
b2746.1	Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer emergency rating		Dominion (100%)
b2746.2	Rebuild Line #1009 Ridge Rd - Chase City 115 kV, 9.5 miles, for 346 MVA summer emergency rating		Dominion (100%)
b2746.3	Install a second 4.8 MVAR capacitor bank on the 13.8 kV bus of each transformer at Ridge Rd		Dominion (100%)
b2747	Install a Motor Operated Switch and SCADA control between Dominion's Gordonsville 115 kV bus and FirstEnergy's 115 kV line		Dominion (100%)

Required 118		uai Revenue Requirement	Responsible Customer(s)
1.0757	Install a +/-125 MVAr		D :: (1000/)
b2757	Statcom at Colington 230 kV		Dominion (100%)
	K V		Load-Ratio Share
			Allocation:
			AEC (1.70%) / AEP (14.25%)
			/ APS (5.53%) / ATSI (8.09%)
			/ BGE (4.19%) / ComEd
			(13.43%) / Dayton (2.12%) /
			DEOK (3.37%) / DL (1.77%)
			/ Dominion (12.39%) / DPL
	Rebuild Line #549 Dooms		(2.62%) / ECP** (0.20%) /
b2758	- Valley 500kV		EKPC (1.82%) / HTP***
	,		(0.20%) / JCPL (3.78%) / ME
			(1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) /
			PSEG (6.22%) / RE (0.25%)
			DFAX Allocation:
			APS (0.09%) / DL (0.03%) /
			Dominion (99.88%)
			Load-Ratio Share
			Allocation:
			AEC (1.70%) / AEP (14.25%)
	Rebuild Line #550 Mt.		/ APS (5.53%) / ATSI (8.09%)
			/ BGE (4.19%) / ComEd
			(13.43%) / Dayton (2.12%) /
			DEOK (3.37%) / DL (1.77%)
			/ Dominion (12.39%) / DPL
			(2.62%) / ECP** (0.20%) /
1-2750			EKPC (1.82%) / HTP***
b2759	Storm – Valley 500kV		(0.20%) / JCPL (3.78%) / ME
			(1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) PPL (4.46%) /
			PSEG (6.22%) / RE (0.25%)
			DFAX Allocation:
			APS (87.50%) / ATSI (0.37%)
			/ DL (0.19%) / Dominion
			(1.04%) / EKPC (10.90%)
	İ		(2.01/0)/ 2111 0 (10.20/0)

Ttequired 11	ansimission Emianeements 7 mm	aai revenae reganemen	responsible edistorrer(s)
	Rebuild Line #171 from		
	Chase City – Boydton		
	Plank Road tap by		
	removing end-of-life		
b2802	facilities and installing 9.4		Dominion (1000/)
02802	miles of new conductor.		Dominion (100%)
	The conductor used will be		
	at current standards with a		
	summer emergency rating		
	of 393 MVA at 115kV		
	Build a new Pinewood		
	115kV switching station at		
b2815	the tap serving North		Dominion (100%)
	Doswell DP with a 115kV		
	four breaker ring bus		

Version: 14.2.0

Effective Date: November 23, 2017

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required 1	ransmission Ennancements Annua	i Kevenue Kequiremeni	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

required i		ar Revenue Requirement Responsible Customer(s)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker	Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA	Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA	Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA	Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA	Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA	Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA	Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA	Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

^{**}East Coast Power, L.L.C.

^{***}Hudson Transmission Partners, LLC

Required T	ransmission Enhancements A	Annual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1		Annuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures		Dominion (100%)
	located between Carolina and Jackson DP with steel H-frames		
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Required 1	ransmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
b2471	Replace Midlothian 500 kV breaker 563T576 and motor operated switches with 3 breaker 500 kV ring bus. Terminate Lines # 563 Carson – Midlothian, #576 Midlothian –North Anna, Transformer #2 in new ring		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%)
			DFAX Allocation: Dominion (100%)
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto- sectionalizing scheme		Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line		Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker		Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker		Dominion (100%)
b2565	Reconductor wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment		Dominion (100%)

Required 1	ransmission Enhancements A	nnual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.70%) / AEP
			(14.25%) / APS (5.53%) /
			ATSI (8.09%) / BGE
			(4.19%) / ComEd (13.43%) /
			Dayton (2.12%) / DEOK
			(3.37%) / DL (1.77%) /
			Dominion (12.39%) / DPL
	Rebuild the Elmont –		(2.62%) / ECP** (0.20%) /
b2582	Cunningham 500 kV line		EKPC (1.82%) / HTP***
			(0.20%) / JCPL (3.78%) /
			` ' '
			ME (1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) /
			PSEG (6.22%) / RE (0.25%)
			DFAX Allocation:
			Dominion (93.16%) / PEPCO
			(6.84%)
	Install 500 kV breaker at		
b2583	Ox Substation to remove Ox Tx#1 from H1T561		Dominion (100%)
	breaker failure outage.		, ,
	Relocate the Bremo load		
	(transformer #5) to #2028		
	(Bremo-Charlottesville		
b2584	230 kV) line and		Dominion (100%)
	Cartersville distribution		
	station to #2027 (Bremo- Midlothian 230 kV) line		
	Reconductor 7.63 miles of		
	existing line between		
b2585	Cranes and Stafford,		PEPCO (100%)
	upgrade associated line		, ,
	switches at Stafford		
	Wreck and rebuild the		
	Chesapeake – Deep Creek – Bowers Hill – Hodges		
10:20	Ferry 115 kV line;		D
b2620	minimum rating 239		Dominion (100%)
	MVA normal/emergency,		
	275 MVA load dump		
	rating		

Required 1		nual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required T		al Revenue Requirement	Responsible Customer(s)
b2628	Rebuild 115 kV Line #82 Everetts – Voice of America (20.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2629	Rebuild the 115 kV Lines #27 and #67 lines from Greenwich 115 kV to Burton 115 kV Structure 27/280 to current standard with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2630	Install circuit switchers on Gravel Neck Power Station GSU units #4 and #5. Install two 230 kV CCVT's on Lines #2407 and #2408 for loss of source sensing		Dominion (100%)
b2636	Install three 230 kV bus breakers and 230 kV, 100 MVAR Variable Shunt Reactor at Dahlgren to provide line protection during maintenance, remove the operational hazard and provide voltage reduction during light load conditions		Dominion (100%)
b2647	Rebuild Boydton Plank Rd – Kerr Dam 115 kV Line #38 (8.3 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2648	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7 miles) to current standards with summer emergency rating of 353 MVA 115 kV.		Dominion (100%)
b2649	Rebuild Clubhouse – Carolina 115 kV Line #130 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

required 118		iai Kevenue Kequirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Kequilea 11	ansimission Emiancements Annu	iai Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.70%) / AEP
			(14.25%) / APS (5.53%) /
			ATSI (8.09%) / BGE
			(4.19%) / ComEd (13.43%) /
			Dayton (2.12%) / DEOK
			(3.37%) / DL (1.77%) /
			Dominion (12.39%) / DPL
	Rebuild the Cunningham –		(2.62%) / ECP** (0.20%) /
b2665	Dooms 500 kV line		EKPC (1.82%) / HTP***
			(0.20%) / JCPL (3.78%) /
			ME (1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) /
			PSEG (6.22%) / RE (0.25%)
			DFAX Allocation:
			Dominion (71.81%) / PEPCO
			(28.19%)
b2686	Pratts Area Improvement		Dominion (100%)
02000	_		Dominion (100%)
1.0.0.1	Build a 230 kV line from Remington Substation to		5 1.1 (400.1)
b2686.1	Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
1.0000.11	Upgrading sections of the		D :: (1000()
b2686.11	Gordonsville – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
	kV circuit		
L2606 12	Upgrading sections of the		Dominia : (1000()
b2686.13	Orange – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		
b2686.2	Install a 3rd 230/115 kV transformer at Gordonsville		Dominion (100%)
02000.2	Substation		Dominion (100%)
	Daobtation		l .

^{*}Neptune Regional Transmission System, LLC

^{**} East Coast Power, LLC

^{***}Hudson Transmission Partners, LLC

Required 118	ansmission Enhancements	Allitual Revenue Requireme	ent Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.96%) / BGE (14.37%) / Dominion (35.11%) / DPL (3.76%) / ECP (0.29%) / HTP (0.34%) / JCPL (3.31%) / ME (2.51%) / Neptune (0.63%) / PECO (6.26%) / PEPCO (20.23%) / PPL (3.94%) /PSEG (7.29%)

Required 118	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2744	Rebuild the Carson – Rogers Rd 500 kV circuit		Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%)
			DFAX Allocation: Dominion (100%)
b2745	Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV		Dominion (100%)
b2746.1	Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer emergency rating		Dominion (100%)
b2746.2	Rebuild Line #1009 Ridge Rd - Chase City 115 kV, 9.5 miles, for 346 MVA summer emergency rating		Dominion (100%)
b2746.3	Install a second 4.8 MVAR capacitor bank on the 13.8 kV bus of each transformer at Ridge Rd		Dominion (100%)
b2747	Install a Motor Operated Switch and SCADA control between Dominion's Gordonsville 115 kV bus and FirstEnergy's 115 kV line		Dominion (100%)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)

Required Tra	ansmission Enhancements Annu	al Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.70%) / AEP (14.25%)
			/ APS (5.53%) / ATSI (8.09%)
			/ BGE (4.19%) / ComEd
			(13.43%) / Dayton (2.12%) /
			DEOK (3.37%) / DL (1.77%)
			/ Dominion (12.39%) / DPL
	D 1 '111' "540 D		(2.62%) / ECP** (0.20%) /
b2758	Rebuild Line #549 Dooms – Valley 500kV		EKPC (1.82%) / HTP***
	valley 500k v		(0.20%) / JCPL (3.78%) / ME
			(1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) /
			PSEG (6.22%) / RE (0.25%)
			DFAX Allocation:
			APS (0.09%) / DL (0.03%) /
			Dominion (99.88%)
			Load-Ratio Share
	Rebuild Line #550 Mt.		Allocation:
			AEC (1.70%) / AEP (14.25%)
			/ APS (5.53%) / ATSI (8.09%)
			/ BGE (4.19%) / ComEd
			(13.43%) / Dayton (2.12%) /
			DEOK (3.37%) / DL (1.77%)
			/ Dominion (12.39%) / DPL
			(2.62%) / ECP** (0.20%) /
b2750			EKPC (1.82%) / HTP***
b2759	Storm – Valley 500kV		(0.20%) / JCPL (3.78%) / ME
			(1.87%) / NEPTUNE*
			(0.42%) / PECO (5.30%) /
			PENELEC (1.84%) / PEPCO
			(4.18%) / PPL (4.46%) /
			PSEG (6.22%) / RE (0.25%)
			DFAX Allocation:
			APS (87.50%) / ATSI (0.37%)
			111 b (07.5070) / 111b1 (0.5770)
			/ DL (0.19%) / Dominion (1.04%) / EKPC (10.90%)

Required Tra		al Revenue Requirement	Responsible Customer(s)
	Rebuild Line #171 from		
	Chase City – Boydton Plank		
	Road tap by removing end-		
	of-life facilities and		
1-2002	installing 9.4 miles of new		Daminian (1000/)
b2802	conductor. The conductor		Dominion (100%)
	used will be at current		
	standards with a summer		
	emergency rating of 393		
	MVA at 115kV		
	Build a new Pinewood		
	115kV switching station at		
b2815	the tap serving North		Dominion (100%)
02010	Doswell DP with a 115kV		2 0111111011 (10070)
	four breaker ring bus		
	Update the nameplate for		
b2842	Mount Storm 500 kV		Dominion (100%)
020.2	"57272" to be 50kA breaker		2 0111111011 (10070)
	Replace the Mount Storm		
b2843	500 kV "G2TY" with 50kA		Dominion (100%)
	breaker		(
	Replace the Mount		
b2844	Storm 500 kV "G2TZ" with		Dominion (100%)
	50kA breaker		(
	Update the nameplate for		
1 20 45	Mount Storm 500 kV		D :: (1000/)
b2845	"G3TSX1" to be 50kA		Dominion (100%)
	breaker		
	Update the nameplate for		
b2846	Mount Storm 500 kV		Dominion (100%)
	"SX172" to be 50kA breaker		
	Update the nameplate for		
b2847	Mount Storm 500 kV "Y72"		Dominion (100%)
02017	to be 50kA breaker		2 0111111011 (100,0)
b2848	Replace the Mount		
	Storm 500 kV "Z72" with		Dominion (100%)
	50kA breaker		(/ - / - /
	Rebuild 230 kV line #247		
	from Swamp to Suffolk		
1.0071	(31 miles) to current		D :: (1000()
b2871	standards with a summer		Dominion (100%)
	emergency rating of 1047		
	MVA at 230 kV		
L	1	1	1

Version: 14.3.0

Effective Date: January 1, 2018

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required 1	Tansinission Enhancements Annual I	Revenue Requirement Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating	Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker	Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker	Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project	Dominion (100%)
b2281	Additional Temporary SPS at Bath County	Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater	Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation	Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station	Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way	Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation	Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

required 1		ai Revenue Requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

Required 1		nual Revenue Requirement	Responsible Customer(s)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h- frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1		Annuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina		Dominion (100%)
	and Jackson DP with steel H-frames Replace Hanover 230 kV		
b2460.1	substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

associated terminal equipment

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / Replace Midlothian 500 kV breaker 563T576 and motor DEOK (3.29%) / DL (1.75%) / operated switches with 3 DPL (2.50%) / Dominion breaker 500 kV ring bus. (12.86%) / EKPC (1.87%) / b2471 Terminate Lines # 563 Carson JCPL (3.74%) / ME (1.90%) / - Midlothian, #576 NEPTUNE* (0.44%) / PECO Midlothian -North Anna, Transformer #2 in new ring (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** Dominion (100%) Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA b2504 and transfer Welco tap to Line Dominion (100%) #32. Moving Welco to Line #32 requires disabling autosectionalizing scheme Install structures in river to remove the 115 kV #65 line b2505 (Whitestone-Harmony Village Dominion (100%) 115 kV) from bridge and improve reliability of the line Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker b2542 Dominion (100%) Replace the Loudoun 500 kV 'H2T584' breaker with a b2543 Dominion (100%) 50kA breaker Reconductor wave trap at b2565 Carver Substation with a Dominion (100%) 2000A wave trap Reconductor 1.14 miles of existing line between ACCA b2566 and Hermitage and upgrade Dominion (100%)

Ferry 115 kV line;

minimum rating 239 MVA normal/emergency, 275 MVA load dump rating

b2620

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion Rebuild the Elmont – b2582 (12.86%) / EKPC (1.87%) / Cunningham 500 kV line JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** Dominion (100%) Install 500 kV breaker at Ox Substation to remove b2583 Dominion (100%) Ox Tx#1 from H1T561 breaker failure outage. Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville b2584 230 kV) line and Dominion (100%) Cartersville distribution station to #2027 (Bremo-Midlothian 230 kV) line Reconductor 7.63 miles of existing line between b2585 Cranes and Stafford, PEPCO (100%) upgrade associated line switches at Stafford Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges

Dominion (100%)

Required 1		nual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required T		ual Revenue Requirement	Responsible Customer(s)
b2628	Rebuild 115 kV Line #82 Everetts – Voice of America (20.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2629	Rebuild the 115 kV Lines #27 and #67 lines from Greenwich 115 kV to Burton 115 kV Structure 27/280 to current standard with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2630	Install circuit switchers on Gravel Neck Power Station GSU units #4 and #5. Install two 230 kV CCVT's on Lines #2407 and #2408 for loss of source sensing		Dominion (100%)
b2636	Install three 230 kV bus breakers and 230 kV, 100 MVAR Variable Shunt Reactor at Dahlgren to provide line protection during maintenance, remove the operational hazard and provide voltage reduction during light load conditions		Dominion (100%)
b2647	Rebuild Boydton Plank Rd – Kerr Dam 115 kV Line #38 (8.3 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2648	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7 miles) to current standards with summer emergency rating of 353 MVA 115 kV.		Dominion (100%)
b2649	Rebuild Clubhouse – Carolina 115 kV Line #130 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Required 113		dai Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

required 11	ansimission Emancements Anno	uai Revenue Requirement	responsible edisioner(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP
			(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			Dayton (2.11%) / DEOK
			(3.29%) / DL (1.75%) / DPL
	Dahvild the Cynningham		(2.50%) / Dominion
b2665	Rebuild the Cunningham – Dooms 500 kV line		(12.86%) / EKPC (1.87%) /
	Booms 300 K v inic		JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			PECO (5.34%) / PENELEC
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
		DFAX Allocation:	
		Dominion (71.81%) /	
			PEPCO (28.19%)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
	Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
32000.12	kV circuit		20111111011 (10070)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		` ′
1.2606.2	Install a 3rd 230/115 kV		D :: (1000()
b2686.2	transformer at Gordonsville Substation		Dominion (100%)
	Substation		

^{*}Neptune Regional Transmission System, LLC

Required 11	ansmission Emancements	Annuai Revenue Requireme	the Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Required 11	ansmission Ennancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
b2744	Rebuild the Carson – Rogers		Dominion (12.86%) / EKPC
02744	Rd 500 kV circuit		(1.87%) / JCPL (3.74%) / ME
			(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			` , , , , , , , , , , , , , , , , , , ,
			DFAX Allocation:
			Dominion (100%)
	Rebuild 21.32 miles of		
b2745	existing line between Chesterfield – Lakeside		Dominion (100%)
	230 kV		
	Rebuild Line #137 Ridge Rd		
b2746.1	– Kerr Dam 115 kV, 8.0		Dominion (100%)
02710.1	miles, for 346 MVA summer		
	emergency rating Rebuild Line #1009 Ridge Rd		
	- Chase City 115 kV, 9.5		5
b2746.2	miles, for 346 MVA summer		Dominion (100%)
	emergency rating		
	Install a second 4.8 MVAR		
b2746.3	capacitor bank on the 13.8 kV bus of each transformer at		Dominion (100%)
	Ridge Rd		, , ,
	Install a Motor Operated		
	Switch and SCADA control		
b2747	between Dominion's		Dominion (100%)
	Gordonsville 115 kV bus and		
	FirstEnergy's 115 kV line		

Required 11	ansmission Enhancements Annual F	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			` ' '
	D 1 '111' #540 D		DL (1.75%) / DPL (2.50%) /
b2758	Rebuild Line #549 Dooms –		Dominion (12.86%) / EKPC
	Valley 500kV		(1.87%) / JCPL (3.74%) / ME
			(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			APS (0.09%) / DL (0.03%) /
			Dominion (99.88%)
			Load-Ratio Share
	Rebuild Line #550 Mt. Storm –		Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
			Dominion (12.86%) / EKPC
			(1.87%) / JCPL (3.74%) / ME
b2759	Valley 500kV		(1.90%) / NEPTUNE*
	j		(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			APS (87.50%) / ATSI
			(0.37%) / DL (0.19%) /
			Dominion (1.04%) / EKPC
			` /
			(10.90%)

Required 11		Revenue Requirement	Responsible Customer(s)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end-of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)

Version: 15.2.0

Effective Date: February 15, 2018

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required 1		Revenue Requirement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right-of- way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

	Tarishinssion Emancements Amuai	Revenue Requirement Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker	Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker	Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker	Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line	Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (33.33%) / Dominion (66.67%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA	Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA	Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA	Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA	Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA	Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA	Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA	Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

Required T	ransmission Enhancements A	Annual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1		Annuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures		Dominion (100%)
	located between Carolina and Jackson DP with steel H-frames		
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

associated terminal equipment

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / Replace Midlothian 500 kV breaker 563T576 and motor DEOK (3.29%) / DL (1.75%) / operated switches with 3 DPL (2.50%) / Dominion breaker 500 kV ring bus. (12.86%) / EKPC (1.87%) / b2471 Terminate Lines # 563 Carson JCPL (3.74%) / ME (1.90%) / - Midlothian, #576 NEPTUNE* (0.44%) / PECO Midlothian -North Anna, Transformer #2 in new ring (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** Dominion (100%) Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA b2504 and transfer Welco tap to Line Dominion (100%) #32. Moving Welco to Line #32 requires disabling autosectionalizing scheme Install structures in river to remove the 115 kV #65 line b2505 (Whitestone-Harmony Village Dominion (100%) 115 kV) from bridge and improve reliability of the line Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker b2542 Dominion (100%) Replace the Loudoun 500 kV 'H2T584' breaker with a b2543 Dominion (100%) 50kA breaker Reconductor wave trap at b2565 Carver Substation with a Dominion (100%) 2000A wave trap Reconductor 1.14 miles of existing line between ACCA b2566 and Hermitage and upgrade Dominion (100%)

Required 1	ransmission Enhancements A	nnual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP
			(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			Dayton (2.11%) / DEOK
			(3.29%) / DL (1.75%) / DPL
b2582	Rebuild the Elmont –		(2.50%) / Dominion
02362	Cunningham 500 kV line		(12.86%) / EKPC (1.87%) /
			JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			PECO (5.34%) / PENELEC
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
	11.700.133.1		Dominion (100%)
	Install 500 kV breaker at Ox Substation to remove		
b2583	Ox Tx#1 from H1T561		Dominion (100%)
	breaker failure outage.		
	Relocate the Bremo load		
	(transformer #5) to #2028 (Bremo-Charlottesville		
b2584	230 kV) line and		Dominion (100%)
02304	Cartersville distribution		Dominion (100%)
	station to #2027 (Bremo-		
	Midlothian 230 kV) line		
	Reconductor 7.63 miles of existing line between		
b2585	Cranes and Stafford,		PEPCO (100%)
======	upgrade associated line		
	switches at Stafford		
	Wreck and rebuild the		
b2620	Chesapeake – Deep Creek – Bowers Hill – Hodges		
	Ferry 115 kV line;		Danisia (100%)
	minimum rating 239		Dominion (100%)
	MVA normal/emergency,		
	275 MVA load dump		
	rating		

Required 1		nual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required 1		ial Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82 Everetts – Voice of America		
b2628	(20.8 miles) to current standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to current standard with a		Dominion (100%)
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on Gravel Neck Power Station		
1.2.20	GSU units #4 and #5. Install		5
b2630	two 230 kV CCVT's on		Dominion (100%)
	Lines #2407 and #2408 for		
	loss of source sensing Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
b2636	Reactor at Dahlgren to provide line protection		Dominion (100%)
02030	during maintenance, remove		Dominion (10070)
	the operational hazard and		
	provide voltage reduction during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7		
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		2 33333331 (1 0 0 7 0 7
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse – Carolina 115 kV Line #130		
b2649	(17.8 miles) to current		Dominion (100%)
02049	standards with summer		Dominion (100%)
	emergency rating of 353 MVA at 115 kV.		
1	1.1.1.2.00.1.10.11.1.	l	

required 1	Tarishinssion Emilancements Amin	iai Kevenue Requirement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

required 118		iai Kevenue Kequirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

required 11	distrission Emancements Annu	iai Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP
			(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			Dayton (2.11%) / DEOK
			(3.29%) / DL (1.75%) / DPL
	Rebuild the Cunningham –		(2.50%) / Dominion
b2665	Dooms 500 kV line		(12.86%) / EKPC (1.87%) /
	Booms 200 R v Ime		JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			PECO (5.34%) / PENELEC
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (71.81%) /
			PEPCO (28.19%)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to		Dominion (100%)
02000.1	Gordonsville Substation		Dominion (100%)
	utilizing existing ROW Ungrading sections of the		
b2686.11	Upgrading sections of the Gordonsville – Somerset		Dominion (100%)
52000.11	115 kV circuit		2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1.0.0.0.0.0	Upgrading sections of the		5
b2686.12	Somerset – Doubleday 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	circuit		(,
b2686.14	Upgrading sections of the		D :: (100%)
	Mitchell – Mt. Run 115 kV circuit		Dominion (100%)
	Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
	Substation		- (= 0 0 . 0 ,

^{*}Neptune Regional Transmission System, LLC

Required Tra	ansmission Enhancements	Annual Revenue Requireme	ent Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13 31%) / Dayton

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2744	Rebuild the Carson – Rogers Rd 500 kV circuit	ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)
		DFAX Allocation: Dominion (100%)
b2745	Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV	Dominion (100%)
b2746.1	Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer emergency rating	Dominion (100%)
b2746.2	Rebuild Line #1009 Ridge Rd - Chase City 115 kV, 9.5 miles, for 346 MVA summer emergency rating	Dominion (100%)
b2746.3	Install a second 4.8 MVAR capacitor bank on the 13.8 kV bus of each transformer at Ridge Rd	Dominion (100%)
b2747	Install a Motor Operated Switch and SCADA control between Dominion's Gordonsville 115 kV bus and FirstEnergy's 115 kV line	Dominion (100%)

Load-Ratio Share

Required 11	ansmission Enhancements Annua	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
	Rebuild Line #549 Dooms –		Dominion (12.86%) / EKPC
b2758	Valley 500kV		(1.87%) / JCPL (3.74%) / ME
	vancy 500k v		(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			, , , , ,
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			APS (0.09%) / DL (0.03%) /
			Dominion (99.88%)
			Load-Ratio Share
	Rebuild Line #550 Mt. Storm		Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
			Dominion (12.86%) / EKPC
b2759			(1.87%) / JCPL (3.74%) / ME
02737	– Valley 500kV		(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			APS (87.50%) / ATSI
			(0.37%) / DL (0.19%) /
			Dominion (1.04%) / EKPC
			(10.90%)

Required 11		Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Required 11	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

Required 11	ansmission Ennancements Annua	i Revenue Requirement	Responsible Customer(s)
b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2928	Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace the river crossing conductor with 3-1534 ACSR. This will increase the line #567 line rating from 1954 MVA to 2600 MVA		Load-Ratio Share
b2929	Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards with a standard conductor (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)

Version: 16.2.0

Effective Date: April 5, 2018

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required 1	Tansinission Emiancements Amin	ai Kevenue Kequitement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 1	ransmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (33.33%) / Dominion (66.67%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

Required T	ransmission Enhancements A	Annual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1		Annuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures		Dominion (100%)
	located between Carolina and Jackson DP with steel H-frames		
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / Replace Midlothian 500 kV breaker 563T576 and motor DEOK (3.29%) / DL (1.75%) / operated switches with 3 DPL (2.50%) / Dominion breaker 500 kV ring bus. (12.86%) / EKPC (1.87%) / b2471 Terminate Lines # 563 Carson JCPL (3.74%) / ME (1.90%) / - Midlothian, #576 NEPTUNE* (0.44%) / PECO Midlothian -North Anna, Transformer #2 in new ring (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** Dominion (100%) Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA b2504 and transfer Welco tap to Line Dominion (100%) #32. Moving Welco to Line #32 requires disabling autosectionalizing scheme Install structures in river to remove the 115 kV #65 line b2505 (Whitestone-Harmony Village Dominion (100%) 115 kV) from bridge and improve reliability of the line Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker b2542 Dominion (100%) Replace the Loudoun 500 kV H2T584' breaker with a b2543 Dominion (100%) 50kA breaker Reconductor wave trap at b2565 Carver Substation with a Dominion (100%) 2000A wave trap Reconductor 1.14 miles of existing line between ACCA b2566 and Hermitage and upgrade Dominion (100%) associated terminal equipment

Annual Revenue Requirement Responsible Customer(s)

Required T	ransmission Enhancements A	nnual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP
			(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			Dayton (2.11%) / DEOK
			(3.29%) / DL (1.75%) / DPL
b2582	Rebuild the Elmont –		(2.50%) / Dominion
02302	Cunningham 500 kV line		(12.86%) / EKPC (1.87%) /
			JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			PECO (5.34%) / PENELEC
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Install 500 kV breaker at		
b2583	Ox Substation to remove Ox Tx#1 from H1T561		Dominion (100%)
	breaker failure outage.		
	Relocate the Bremo load		
	(transformer #5) to #2028		
b2584	(Bremo-Charlottesville 230 kV) line and		Dominion (100%)
02304	Cartersville distribution		Dominion (100%)
	station to #2027 (Bremo-		
	Midlothian 230 kV) line		
	Reconductor 7.63 miles of		
b2585	existing line between Cranes and Stafford, upgrade associated line		PEPCO (100%)
02383			1 Li CO (100%)
	switches at Stafford		
	Wreck and rebuild the		
b2620	Chesapeake – Deep Creek		
	– Bowers Hill – Ĥodges Ferry 115 kV line;		
	minimum rating 239		Dominion (100%)
	MVA normal/emergency,		
	275 MVA load dump		
	rating		

Required T	ransmission Enhancements A	nnual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required 1		ual Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82		
b2628	Everetts – Voice of America		
	(20.8 miles) to current		Dominion (100%)
	standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		, , ,
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
b2630	GSU units #4 and #5. Install		Dominion (100%)
02030	two 230 kV CCVT's on		Dominion (100%)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
02047	standards with summer		Dominion (10070)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
b2648	Dam 115 kV Line #90 (38.7		
	miles) to current standards		Dominion (100%)
	with summer emergency		
	rating of 353 MVA 115 kV.		
b2649	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
	(17.8 miles) to current		Dominion (100%)
	standards with summer		2011111011 (10070)
	emergency rating of 353		
	MVA at 115 kV.		

Required 1		dai Kevende Kequilement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Required 11		iai Kevenue Kequirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Trequired 11		The reflue requirement	responsible eustomer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP
			(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			Dayton (2.11%) / DEOK
			(3.29%) / DL (1.75%) / DPL
			1 ' ' '
b2665	Rebuild the Cunningham – Dooms 500 kV line		(2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: Dominion (71.81%) / PEPCO (28.19%)
	Dooms 500 k v line		
			` ′
			` ′
			` ′ ′
			` ′
	DFAX Alloca		
			` ,
1.2606	D44- A I		D :: (1000/)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to		Dominion (100%)
02000.1	Gordonsville Substation		
	utilizing existing ROW Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit		` ′
1-2606 12	Upgrading sections of the		Daninian (1000/)
b2686.12	Somerset – Doubleday 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	circuit		
b2686.14	Upgrading sections of the Mitchell – Mt. Run 115 kV		Dominion (100%)
02000.14	circuit		Dominion (100%)
	Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
	Substation		

^{*}Neptune Regional Transmission System, LLC

Required 11	ansmission Enhancements	Annual Revenue Requireme	ent Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Chesterfield – Lakeside 230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0

miles, for 346 MVA summer emergency rating Rebuild Line #1009 Ridge Rd – Chase City 115 kV, 9.5

miles, for 346 MVA summer emergency rating Install a second 4.8 MVAR capacitor bank on the 13.8 kV

bus of each transformer at
Ridge Rd
Install a Motor Operated
Switch and SCADA control
between Dominion's

Gordonsville 115 kV bus and FirstEnergy's 115 kV line

b2745

b2746.1

b2746.2

b2746.3

b2747

Required Transmission Enhancements Annual Revenue Requirement

Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Rebuild the Carson – Rogers Dominion (12.86%) / EKPC b2744 Rd 500 kV circuit (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** Dominion (100%) Rebuild 21.32 miles of existing line between

Responsible Customer(s)

Load-Ratio Share

Dominion (100%)

Dominion (100%)

Dominion (100%)

Dominion (100%)

Dominion (100%)

Required 11	ansmission Enhancements Annua	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
	Rebuild Line #549 Dooms –		Dominion (12.86%) / EKPC
b2758	Valley 500kV		(1.87%) / JCPL (3.74%) / ME
	vancy 500k v		(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%) DFAX Allocation:
			APS (0.09%) / DL (0.03%) /
			Dominion (99.88%)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
			Dominion (12.86%) / EKPC
b2759	Rebuild Line #550 Mt. Storm		(1.87%) / JCPL (3.74%) / ME
02739	– Valley 500kV		(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			APS (87.50%) / ATSI
			(0.37%) / DL (0.19%) /
			Dominion (1.04%) / EKPC
			(10.90%)

Required 11		Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Required 11	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

Required 11		Revenue Requirement	Responsible Customer(s)
b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2928	Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace the river crossing conductor with 3-1534 ACSR. This will increase the line #567 line rating from 1954 MVA to 2600 MVA		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME
b2929	Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards with a standard conductor (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2960	Replace fixed series capacitors on 500 kV Line #547 at Lexington and on 500 kV Line #548 at Valley		See sub-IDs for cost allocations

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share** Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Replace fixed series Dominion (12.86%) / EKPC capacitors on 500 kV Line b2960.1 (1.87%) / JCPL (3.74%) / ME #547 at Lexington (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** DEOK (6.04%) / Dominion (91.37%) / EKPC (2.59%) **Load-Ratio Share** Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Replace fixed series Dominion (12.86%) / EKPC capacitors on 500 kV Line b2960.2 (1.87%) / JCPL (3.74%) / ME #548 at Valley (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation: DEOK** (29.79%) / **Dominion** (60.32%) / EKPC (9.89%)

110000000000000000000000000000000000000		responsible constantial (s)
b2961	Rebuild approximately 3 miles of Line #205 & Line #2003 from Chesterfield to Locks & Poe respectively	Dominion (100%)
b2962	Split Line #227 (Brambleton – Beaumeade 230 kV) and terminate into existing Belmont substation	Dominion (100%)
b2963	Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and replace line terminal equipment at Possum Point, Woodbridge, and Occoquan	Dominion (100%)

Version: 17.2.0

Effective Date: June 14, 2018

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required 1	Tansinission Enhancements Annual I	Revenue Requirement Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating	Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker	Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker	Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project	Dominion (100%)
b2281	Additional Temporary SPS at Bath County	Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater	Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation	Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station	Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way	Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation	Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 1	ransmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / Dominion (12.86%) / DPL (2.50%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (33.33%) / Dominion (66.67%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

Required T	ransmission Enhancements A	Annual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1		Annuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina		Dominion (100%)
	and Jackson DP with steel H-frames Replace Hanover 230 kV		
b2460.1	substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

and Hermitage and upgrade

associated terminal equipment

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / Replace Midlothian 500 kV DEOK (3.29%) / DL (1.75%) / breaker 563T576 and motor operated switches with 3 DPL (2.50%) / Dominion breaker 500 kV ring bus. (12.86%) / EKPC (1.87%) / b2471 Terminate Lines # 563 Carson JCPL (3.74%) / ME (1.90%) / Midlothian, #576 NEPTUNE* (0.44%) / PECO Midlothian -North Anna, (5.34%) / PENELEC (1.89%) / Transformer #2 in new ring PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** Dominion (100%) Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line b2504 Dominion (100%) #32. Moving Welco to Line #32 requires disabling autosectionalizing scheme Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village b2505 Dominion (100%) 115 kV) from bridge and improve reliability of the line Replace the Loudoun 500 kV b2542 'H2T502' breaker with a Dominion (100%) 50kA breaker Replace the Loudoun 500 kV 'H2T584' breaker with a b2543 Dominion (100%) 50kA breaker Reconductor wave trap at Carver Substation with a b2565 Dominion (100%) 2000A wave trap Reconductor 1.14 miles of existing line between ACCA b2566

Dominion (100%)

Kequileu 1	ransmission Enhancements A	illuai Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP
			(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			Dayton (2.11%) / DEOK
			(3.29%) / DL (1.75%) / DPL
b2582	Rebuild the Elmont –		(2.50%) / Dominion
02362	Cunningham 500 kV line		(12.86%) / EKPC (1.87%) /
			JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			PECO (5.34%) / PENELEC
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Install 500 kV breaker at		
b2583	Ox Substation to remove Ox Tx#1 from H1T561		Dominion (100%)
	breaker failure outage.		
	Relocate the Bremo load		
	(transformer #5) to #2028		
L2504	(Bremo-Charlottesville		Dominio : (1000/)
b2584	230 kV) line and Cartersville distribution		Dominion (100%)
	station to #2027 (Bremo-		
	Midlothian 230 kV) line		
	Reconductor 7.63 miles of		
1-2505	existing line between		DEDCO (100%)
b2585	Cranes and Stafford, upgrade associated line		PEPCO (100%)
	switches at Stafford		
	Wreck and rebuild the		
b2620	Chesapeake – Deep Creek		
	- Bowers Hill - Hodges		
	Ferry 115 kV line; minimum rating 239		Dominion (100%)
	MVA normal/emergency,		
	275 MVA load dump		
	rating		

Kequileu 1		muai Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required 1		ual Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82		
	Everetts – Voice of America		
b2628	(20.8 miles) to current		Dominion (100%)
02020	standards with a summer		Dominion (10070)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
b2630	GSU units #4 and #5. Install		Dominion (100%)
02030	two 230 kV CCVT's on		Dominion (10070)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		5
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
	standards with summer		
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
1.0640	Dam 115 kV Line #90 (38.7		D :: (1000()
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		
	rating of 353 MVA 115 kV.		-
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
b2649	(17.8 miles) to current		Dominion (100%)
	standards with summer		` '
	emergency rating of 353		
	MVA at 115 kV.		

Required 1		dai Kevende Kequilement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Required 11		iai Kevenue Kequirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

required 11		uai Revenue Requirement	responsible edisioner(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP
			(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			Dayton (2.11%) / DEOK
			(3.29%) / DL (1.75%) / DPL
	D-111441- C11		(2.50%) / Dominion
b2665	Rebuild the Cunningham – Dooms 500 kV line		(12.86%) / EKPC (1.87%) /
	Dooms 300 k v inic		JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			PECO (5.34%) / PENELEC
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (71.81%) /
			PEPCO (28.19%)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to		Dominion (100%)
02000.1	Gordonsville Substation		Dominion (100%)
	utilizing existing ROW Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
52000.11	115 kV circuit		20111111011 (10070)
1.0.00.5.15	Upgrading sections of the		D
b2686.12	Somerset – Doubleday 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
·	circuit		` ′
b 2606 14	Upgrading sections of the		Dominion (1000/)
b2686.14	Mitchell – Mt. Run 115 kV circuit		Dominion (100%)
	Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
	Substation		

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements		Annual Revenue Requirement Responsible Customer(s)	
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

230 kV Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0

miles, for 346 MVA summer emergency rating Rebuild Line #1009 Ridge Rd – Chase City 115 kV, 9.5

miles, for 346 MVA summer emergency rating Install a second 4.8 MVAR capacitor bank on the 13.8 kV

bus of each transformer at
Ridge Rd
Install a Motor Operated
Switch and SCADA control
between Dominion's

Gordonsville 115 kV bus and FirstEnergy's 115 kV line

b2746.1

b2746.2

b2746.3

b2747

Required Transmission Enhancements Annual Revenue Requirement

Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Rebuild the Carson – Rogers Dominion (12.86%) / EKPC b2744 Rd 500 kV circuit (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** Dominion (100%) Rebuild 21.32 miles of existing line between b2745 Dominion (100%) Chesterfield – Lakeside

Responsible Customer(s)

Load-Ratio Share

Dominion (100%)

Dominion (100%)

Dominion (100%)

Dominion (100%)

Required Tra	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
	D-111 I : #5 40 D		` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
b2758	Rebuild Line #549 Dooms – Valley 500kV		Dominion (12.86%) / EKPC
	valley 500k v		(1.87%) / JCPL (3.74%) / ME
			(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			APS (0.09%) / DL (0.03%) /
			Dominion (99.88%)
			Load-Ratio Share
			Allocation:
	Rebuild Line #550 Mt. Storm		AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
			Dominion (12.86%) / EKPC
1-2750			(1.87%) / JCPL (3.74%) / ME
b2759	– Valley 500kV		(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%)/PPL (4.84%)/
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			APS (87.50%) / ATSI
			(0.37%) / DL (0.19%) /
			Dominion (1.04%) / EKPC
			(10.90%)
			(10.7070)

Required 11		Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Required 11	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a b2922 summer emergency rating of Dominion (100%) 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace b2928 the river crossing conductor with 3-1534 ACSR. This will increase the line #567 line Dominion (100%) rating from 1954 MVA to 2600 MVA Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards b2929 with a standard conductor Dominion (100%) (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV Replace fixed series capacitors on 500 kV Line See sub-IDs for cost b2960 #547 at Lexington and on 500 allocations kV Line #548 at Valley **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Replace fixed series Dominion (12.86%) / EKPC b2960.1 capacitors on 500 kV Line (1.87%) / JCPL (3.74%) / ME #547 at Lexington (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)

DFAX Allocation: DEOK (6.04%) / Dominion (91.37%) / EKPC (2.59%)

Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and

replace line terminal equipment at Possum Point, Woodbridge, and Occoquan

b2963

Required Transmission Enhancements Annual Revenue Requirement

Responsible Customer(s) **Load-Ratio Share** Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Replace fixed series Dominion (12.86%) / EKPC b2960.2 capacitors on 500 kV Line (1.87%) / JCPL (3.74%) / ME #548 at Valley (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** DEOK (29.79%) / Dominion (60.32%) / EKPC (9.89%) Rebuild approximately 3 miles of Line #205 & Line b2961 Dominion (100%) #2003 from Chesterfield to Locks & Poe respectively Split Line #227 (Brambleton Beaumeade 230 kV) and terminate into existing b2962 Dominion (100%) Belmont substation

Dominion (100%)

Trequired 11		The venue requirement	Responsible Customer(s)	
			Load-Ratio Share	
			Allocation:	
			AEC (1.66%) / AEP	
			(14.16%) / APS (5.73%) /	
			ATSI (7.88%) / BGE	
			(4.22%) / ComEd (13.31%) /	
			Dayton (2.11%) / DEOK	
	Install 2-125 MVAR		(3.29%) / DL (1.75%) /	
1.000	STATCOMs at Rawlings and		Dominion (12.86%) / DPL	
b2978	1-125 MVAR STATCOM at		(2.50%) / EKPC (1.87%) /	
	Clover 500 kV substations		JCPL (3.74%) / ME (1.90%)	
			/ NEPTUNE* (0.44%) /	
			PECO (5.34%) / PENELEC	
			(1.89%) / PEPCO (3.99%) /	
			PPL (4.84%) / PSEG	
			(6.26%) / RE (0.26%)	
			DFAX Allocation:	
			Dominion (100%)	
	Rebuild 115 kV Line #43		Dollinion (100%)	
	between Staunton and			
	Harrisonburg (22.8 miles) to			
b2980	current standards with a	Dominion (100%)	Dominion (100%)	
	summer emergency rating of			
	261 MVA at 115 kV Rebuild 115 kV Line #29			
	segment between			
	Fredericksburg and Aquia Harbor to current 230 kV			
b2981				
	standards (operating at 115		Daminian (1000/)	
	kV) utilizing steel H-frame structures with 2-636 ACSR		Dominion (100%)	
	to provide a normal			
	continuous summer rating of			
	524 MVA at 115 kV (1047			
	MVA at 230 kV)			

^{*}Neptune Regional Transmission System, LLC

Version: 18.1.0

Effective Date: November 28, 2018

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required 1	Tansinission Emiancements Amin	ai Kevenue Kequiterneni	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 1	ransmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / Dominion (12.86%) / DPL (2.50%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (33.33%) / Dominion (66.67%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

Required T	ransmission Enhancements A	Annual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1		Annuai Revenue Requirement	Responsible Customer(s)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina		Dominion (100%)
	and Jackson DP with steel H-frames		
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Carver Substation with a

2000A wave trap
Reconductor 1.14 miles of existing line between ACCA

and Hermitage and upgrade

associated terminal equipment

b2565

b2566

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd Replace Midlothian 500 kV (13.31%) / Dayton (2.11%) / breaker 563T576 and motor DEOK (3.29%) / DL (1.75%) / operated switches with 3 DPL (2.50%) / Dominion breaker 500 kV ring bus. b2471 (12.86%) / EKPC (1.87%) / Terminate Lines # 563 Carson JCPL (3.74%) / ME (1.90%) / - Midlothian, #576 NEPTUNE* (0.44%) / PECO Midlothian –North Anna, Transformer #2 in new ring (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** Dominion (100%) Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA b2504 and transfer Welco tap to Line Dominion (100%) #32. Moving Welco to Line #32 requires disabling autosectionalizing scheme Install structures in river to remove the 115 kV #65 line b2505 (Whitestone-Harmony Village Dominion (100%) 115 kV) from bridge and improve reliability of the line Replace the Loudoun 500 kV b2542 'H2T502' breaker with a Dominion (100%) 50kA breaker Replace the Loudoun 500 kV 'H2T584' breaker with a b2543 Dominion (100%) 50kA breaker Reconductor wave trap at

Dominion (100%)

Dominion (100%)

Required T	ransmission Enhancements A	nnual Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
b2582			AEC (1.66%) / AEP
	Rebuild the Elmont – Cunningham 500 kV line		(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			Dayton (2.11%) / DEOK
			(3.29%) / DL (1.75%) / DPL
			(2.50%) / Dominion
			(12.86%) / EKPC (1.87%) /
			JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			PECO (5.34%) / PENELEC
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Install 500 kV breaker at Ox Substation to remove Ox Tx#1 from H1T561		Dominion (100%)
b2583			
	breaker failure outage.		
	Relocate the Bremo load		
	(transformer #5) to #2028		
b2584	(Bremo-Charlottesville 230 kV) line and		Dominion (100%)
02364	Cartersville distribution station to #2027 (Bremo-		Dominion (100%)
	Midlothian 230 kV) line		
	Reconductor 7.63 miles of		
b2585	existing line between Cranes and Stafford,		PEPCO (100%)
	upgrade associated line		
	switches at Stafford		
b2620	Wreck and rebuild the		
	Chesapeake – Deep Creek – Bowers Hill – Hodges		
	Ferry 115 kV line;		D
	minimum rating 239		Dominion (100%)
	MVA normal/emergency,		
	275 MVA load dump		
	rating		

Required 1		inual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required 1		ual Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82		
	Everetts – Voice of America		
b2628	(20.8 miles) to current		Dominion (100%)
02020	standards with a summer		Dominion (10070)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
	Greenwich 115 kV to Burton		
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
b2630	GSU units #4 and #5. Install		Dominion (100%)
02030	two 230 kV CCVT's on		Dominion (10070)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		5
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
	standards with summer		
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
1.0640	Dam 115 kV Line #90 (38.7		D :: (1000()
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		
	rating of 353 MVA 115 kV.		-
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
b2649	(17.8 miles) to current		Dominion (100%)
02019	standards with summer		` '
	emergency rating of 353		
	MVA at 115 kV.		

Required 1		dai Kevende Kequilement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Required 11		iai Kevenue Kequirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Required 11	ansmission Enhancements Annu	iai Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP
			(14.16%) / APS (5.73%) /
			ATSI (7.88%) / BGE
			(4.22%) / ComEd (13.31%) /
			Dayton (2.11%) / DEOK
			(3.29%) / DL (1.75%) / DPL
	Rebuild the Cunningham –		(2.50%) / Dominion
b2665	Dooms 500 kV line		(12.86%) / EKPC (1.87%) /
	Booms 300 K v inic		JCPL (3.74%) / ME (1.90%)
			/ NEPTUNE* (0.44%) /
			PECO (5.34%) / PENELEC
			(1.89%) / PEPCO (3.99%) /
			PPL (4.84%) / PSEG
			(6.26%) / RE (0.26%)
			DFAX Allocation:
			Dominion (71.81%) /
			PEPCO (28.19%)
b2686	Pratts Area Improvement		Dominion (100%)
b2686.1	Build a 230 kV line from Remington Substation to		Dominion (100%)
02080.1	Gordonsville Substation utilizing existing ROW		Dominion (100%)
b2686.11	Upgrading sections of the Gordonsville – Somerset		Dominion (100%)
	115 kV circuit		
1-2000 12	Upgrading sections of the		Daninia (1000()
b2686.12	Somerset – Doubleday 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	circuit		
b2686.14	Upgrading sections of the Mitchell – Mt. Run 115 kV		Dominion (100%)
02000.14	circuit		Dominion (100%)
	Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
	Substation		

^{*}Neptune Regional Transmission System, LLC

Required 11a	ansinission Enhancements	Annuai Revenue Requireme	the Responsible Customer(s)
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: Dominion (100%) Bebuild 21.32 miles of existing line between Chesterfield – Lakeside Dominion (100%)	Required 118	ansmission Ennancements Annua	Revenue Requirement	Responsible Customer(s)
AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: Dominion (100%) Bebuild 21.32 miles of existing line between Chesterfield – Lakeside Dominion (100%)				
APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) Dominion (100%)				
b2744 Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild the Carson – Rogers Rd 500 kV circuit Rebuild 21.32 miles of existing line between Chesterfield – Lakeside (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: Dominion (100%)				
Rebuild the Carson – Rogers Rd 500 kV circuit ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PENELEC (1.89%) / PENELEC (1.89%) / PENELEC (0.26%) DFAX Allocation: Dominion (100%)				/ APS (5.73%) / ATSI
Rebuild the Carson – Rogers Rebuild the Carson – Rogers Rd 500 kV circuit DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				(7.88%) / BGE (4.22%) /
DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				ComEd (13.31%) / Dayton
Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) Dominion (100%) Dominion (100%) Dominion (100%) Dominion (100%)				(2.11%) / DEOK (3.29%) /
Rd 500 kV circuit Continue Continue		Dahwild the Course Decous		DL (1.75%) / DPL (2.50%) /
(1.87%) / JCPL (3.74%) / ME	b2744	Rd 500 kV circuit		Dominion (12.86%) / EKPC
(0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)		Rd 500 R v chedit		(1.87%) / JCPL (3.74%) / ME
PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: Dominion (100%) Bebuild 21.32 miles of existing line between Chesterfield – Lakeside Dominion (100%)				(1.90%) / NEPTUNE*
(3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%)				(0.44%) / PECO (5.34%) /
PSEG (6.26%) / RE (0.26%) DFAX Allocation: Dominion (100%) Rebuild 21.32 miles of existing line between Chesterfield – Lakeside Dominion (100%)				PENELEC (1.89%) / PEPCO
Bebuild 21.32 miles of existing line between Chesterfield – Lakeside DFAX Allocation: Dominion (100%) Dominion (100%)				(3.99%) / PPL (4.84%) /
Bebuild 21.32 miles of existing line between Chesterfield – Lakeside Dominion (100%) Dominion (100%)				PSEG (6.26%) / RE (0.26%)
Rebuild 21.32 miles of existing line between Chesterfield – Lakeside Rebuild 21.32 miles of existing line between Dominion (100%)				
b2745 existing line between Chesterfield – Lakeside Dominion (100%)				Dominion (100%)
Chesterfield – Lakeside				
	b2745	Chesterfield – Lakeside		Dominion (100%)
230 kV		230 kV		
Rebuild Line #137 Ridge Rd		Rebuild Line #137 Ridge Rd		
	b2746.1	– Kerr Dam 115 kV, 8.0		Dominion (100%)
miles, for 346 MVA summer emergency rating				_ ::::::: (- : : / : / : /
Rebuild Line #1009 Ridge Rd		Rebuild Line #1009 Ridge Rd		
- Chase City 115 kV, 9.5	b2746.2	– Chase City 115 kV, 9.5		Dominion (100%)
miles, for 346 MVA summer	02/40.2			Dominion (100%)
emergency rating Install a second 4.8 MVAR		emergency rating		
capacitor bank on the 13 8 kV				
b2746.3 Capacitor bank on the 13.8 kV bus of each transformer at Dominion (100%)	b2746.3			Dominion (100%)
Ridge Rd				
Install a Motor Operated				
Switch and SCADA control between Dominion's Dominion (100%)	h2747			Dominion (100%)
b2747 between Dominion's Dominion (100%) Gordonsville 115 kV bus and	b2747			Dominion (100%)
FirstEnergy's 115 kV line				

Required 11	ansmission Ennancements Annua	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
b2758	Rebuild Line #549 Dooms – Valley 500kV		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation: APS (0.09%) / DL (0.03%) /
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		Dominion (99.88%) Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%)

Required Tra	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of		Dominion (100%)
	346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Required 11	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a b2922 summer emergency rating of Dominion (100%) 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace b2928 the river crossing conductor Dominion (100%) with 3-1534 ACSR. This will increase the line #567 line rating from 1954 MVA to 2600 MVA Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards b2929 with a standard conductor Dominion (100%) (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV Replace fixed series capacitors on 500 kV Line See sub-IDs for cost b2960 #547 at Lexington and on 500 allocations kV Line #548 at Valley **Load-Ratio Share Allocation:** AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Replace fixed series Dominion (12.86%) / EKPC b2960.1 capacitors on 500 kV Line (1.87%) / JCPL (3.74%) / ME #547 at Lexington (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** DEOK (6.04%) / Dominion (91.37%) / EKPC (2.59%)

Required 11	ansmission Ennancements Annua	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share
			Allocation:
			AEC (1.66%) / AEP (14.16%)
			/ APS (5.73%) / ATSI
			(7.88%) / BGE (4.22%) /
			ComEd (13.31%) / Dayton
			(2.11%) / DEOK (3.29%) /
			DL (1.75%) / DPL (2.50%) /
1,20,60,2	Replace fixed series		Dominion (12.86%) / EKPC
b2960.2	capacitors on 500 kV Line #548 at Valley		(1.87%) / JCPL (3.74%) / ME
	11540 at valley		(1.90%) / NEPTUNE*
			(0.44%) / PECO (5.34%) /
			PENELEC (1.89%) / PEPCO
			(3.99%) / PPL (4.84%) /
			PSEG (6.26%) / RE (0.26%)
			DFAX Allocation:
			DEOK (29.79%) / Dominion
			(60.32%) / EKPC (9.89%)
	Rebuild approximately 3		
b2961	miles of Line #205 & Line		Dominion (100%)
0-27-0-2	#2003 from Chesterfield to Locks & Poe respectively		_ ::::::: (- : : / · / /
	Split Line #227 (Brambleton		
1.20.62	Beaumeade 230 kV) and		D :: (1000()
b2962	terminate into existing		Dominion (100%)
	Belmont substation		
b2962.1	Replace the Beaumeade 230		D
	kV breaker "274T2081" with 63kA breaker		Dominion (100%)
	Replace the NIVO 230 kV		
b2962.2	breaker "2116T2130" with		Dominion (100%)
32702.2	63kA breaker		,

required i		a Revenue Requirement	Responsible Customer(s)
b2963	Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and replace line terminal equipment at Possum Point, Woodbridge, and Occoquan		Dominion (100%)
b2978	Install 2-125 MVAR STATCOMs at Rawlings and 1-125 MVAR STATCOM at Clover 500 kV substations		Load-Ratio Share Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / Dominion (12.86%) / DPL (2.50%) / EKPC (1.87%) / JCPL (3.74%) / ME (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) DFAX Allocation:
			Dominion (100%)
b2980	Rebuild 115 kV Line #43 between Staunton and Harrisonburg (22.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2981	Rebuild 115 kV Line #29 segment between Fredericksburg and Aquia Harbor to current 230 kV standards (operating at 115 kV) utilizing steel H-frame structures with 2-636 ACSR to provide a normal continuous summer rating of 524 MVA at 115 kV (1047 MVA at 230 kV)		Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

Required 118	ansimission Emiancements Aminual	Revenue Requirement	Responsible Customer(s)
b2989	Install a second 230/115 kV Transformer (224 MVA) approximately 1 mile north of Bremo and tie 230 kV Line #2028 (Bremo – Charlottesville) and 115 kV Line #91 (Bremo - Sherwood) together. A three breaker 230 kV ring bus will split Line #2028 into two lines and Line #91 will also be split into two lines with a new three breaker 115 kV ring bus. Install a temporary 230/115 kV transformer at Bremo substation for the interim until the new substation is complete		Dominion (100%)
b2990	Chesterfield to Basin 230 kV line – Replace 0.14 miles of 1109 ACAR with a conductor which will increase the line rating to approximately 706 MVA		Dominion (100%)
b2991	Chaparral to Locks 230 kV line – Replace breaker lead		Dominion (100%)
b2994	Acquire land and build a new switching station (Skippers) at the tap serving Brink DP with a 115 kV four breaker ring to split Line #130 and terminate the end points		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share** Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Rebuild 500 kV Line #552 Dominion (12.86%) / EKPC b3019 Bristers to Chancellor – 21.6 (1.87%) / JCPL (3.74%) / ME miles long (1.90%) / NEPTUNE* (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** Dominion (89.20%) / PEPCO (10.80%)**Load-Ratio Share** Allocation: AEC (1.66%) / AEP (14.16%) / APS (5.73%) / ATSI (7.88%) / BGE (4.22%) / ComEd (13.31%) / Dayton (2.11%) / DEOK (3.29%) / DL (1.75%) / DPL (2.50%) / Dominion (12.86%) / EKPC Rebuild 500 kV Line #574 (1.87%) / JCPL (3.74%) / ME b3020 Ladysmith to Elmont – 26.2 (1.90%) / NEPTUNE* miles long (0.44%) / PECO (5.34%) / PENELEC (1.89%) / PEPCO (3.99%) / PPL (4.84%) / PSEG (6.26%) / RE (0.26%) **DFAX Allocation:** APS (16.36%) / DEOK (11.61%) / Dominion (51.27%) / EKPC (5.30%) / PEPCO (15.46%)

b3021

Required Transmission Enhancements Annual Revenue Requirement

ComEd (13.31%) / Dayton
(2.11%) / DEOK (3.29%) /
DL (1.75%) / DPL (2.50%) /
Dominion (12.86%) / EKPC
(1.87%) / JCPL (3.74%) / ME
(1.90%) / NEPTUNE*
(0.44%) / PECO (5.34%) /
PENELEC (1.89%) / PEPCO
(3.99%) / PPL (4.84%) /
PSEG (6.26%) / RE (0.26%)

DFAX Allocation:

Responsible Customer(s)

Dominion (100%)

Version: 18.2.0

Effective Date: January 1, 2018

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required 1	ransmission Ennancements Annua	ai Kevenue Kequitement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

required 1	ransmission Emancements Annual	Revenue Requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

required 1	•	nnuai Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1		Annuai Revenue Requirement	Responsible Customer(s)
	Replace 4.5 miles of conductor between		
	Carolina 115 kV and		
	Jackson DP 115 kV with		
b2458.5	min. 300 MVA summer		
02430.3	STE rating; Replace 8		Dominion (100%)
	wood H-frame structures		
	located between Carolina		
	and Jackson DP with steel		
	H-frames Replace Hanover 230 kV		
b2460.1	substation line switches		
02400.1	with 3000A switches		Dominion (100%)
	Replace wave traps at		
	Four River 230 kV and		
b2460.2	Elmont 230 kV		D (1000()
02.00.2	substations with 3000A		Dominion (100%)
	wave traps		
	Wreck and rebuild		
	existing Remington CT –		
b2461	Warrenton 230 kV		Dominion (100%)
	(approx. 12 miles) as a		Dominion (10070)
	double-circuit 230 kV line	;	
	Construct a new 230 kV		
	line approximately 6 miles from NOVEC's Wheeler	5	
b2461.1	Substation a new 230 kV		Dominion (100%)
	switching station in Vint		Dominion (100%)
	Hill area		
	Convert NOVEC's		
104610	Gainesville – Wheeler line	,	
b2461.2	(approximately 6 miles) to		Dominion (100%)
	230 kV		(/
	Complete a Vint Hill –		
b2461.3	Wheeler – Loudoun 230		Dominion (100%)
	kV networked line		Dominion (10070)

Carver Substation with a

2000A wave trap
Reconductor 1.14 miles of existing line between ACCA

and Hermitage and upgrade

associated terminal equipment

b2565

b2566

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) / breaker 563T576 and motor DEOK (3.22%) / DL (1.73%) / operated switches with 3 DPL (2.48%) / Dominion breaker 500 kV ring bus. b2471 (13.17%) / EKPC (2.13%) / Terminate Lines # 563 Carson JCPL (3.71%) / ME (1.88%) / - Midlothian, #576 NEPTUNE* (0.42%) / PECO Midlothian –North Anna, Transformer #2 in new ring (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** Dominion (100%) Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA b2504 and transfer Welco tap to Line Dominion (100%) #32. Moving Welco to Line #32 requires disabling autosectionalizing scheme Install structures in river to remove the 115 kV #65 line b2505 (Whitestone-Harmony Village Dominion (100%) 115 kV) from bridge and improve reliability of the line Replace the Loudoun 500 kV b2542 'H2T502' breaker with a Dominion (100%) 50kA breaker Replace the Loudoun 500 kV 'H2T584' breaker with a b2543 Dominion (100%) 50kA breaker Reconductor wave trap at

Dominion (100%)

Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / Rebuild the Elmont – b2582 Cunningham 500 kV line JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** APS (9.27%) / Dominion (90.73%)Install 500 kV breaker at Ox Substation to remove b2583 Dominion (100%) Ox Tx#1 from H1T561 breaker failure outage. Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and b2584 Dominion (100%) Cartersville distribution station to #2027 (Bremo-Midlothian 230 kV) line Reconductor 7.63 miles of existing line between b2585 Cranes and Stafford, PEPCO (100%) upgrade associated line switches at Stafford Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; b2620 Dominion (100%) minimum rating 239 MVA normal/emergency, 275 MVA load dump rating

Required T		nnual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required 1		ual Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82 Everetts – Voice of America		
b2628	(20.8 miles) to current		Dominion (100%)
02020	standards with a summer		20111111011 (10070)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
1.2.620	Greenwich 115 kV to Burton		D :: (1000()
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		
	summer emergency rating of 262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
	GSU units #4 and #5. Install		
b2630	two 230 kV CCVT's on		Dominion (100%)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		` ,
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
	standards with summer		(
	emergency rating of 353 MVA at 115 kV.		
	Rebuild Carolina – Kerr		
	Dam 115 kV Line #90 (38.7		
b2648	miles) to current standards		Dominion (100%)
02048	with summer emergency		Dominion (100%)
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
1.0640	(17.8 miles) to current		D (1000()
b2649	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		

Required 1	Tarishinssion Emilancements Amin	uai Revenue Requirement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Required 113		iai Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Required 116	ansimission Emiancements Anni	uai Kevenue Kequirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
	Dahwild the Cunningly		DPL (2.48%) / Dominion
b2665	Rebuild the Cunningham – Dooms 500 kV line		(13.17%) / EKPC (2.13%) /
	Booms 300 K v inic		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
h2696	Drotts Area Improvement		Daminian (1000/)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to		Dominion (100%)
32000.1	Gordonsville Substation utilizing existing ROW		2011111011 (10070)
	Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
	115 kV circuit		` /
1.0000.10	Upgrading sections of the		D :: (1000()
b2686.12	Somerset – Doubleday 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	circuit		(· - /
b2686.14	Upgrading sections of the		D :: (1000/)
	Mitchell – Mt. Run 115 kV circuit		Dominion (100%)
	Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
	Substation		- ()

^{*}Neptune Regional Transmission System, LLC

Required 113	ansmission Enhancements	Annual Revenue Requirement Responsible Customer(s)	
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

ion Ennancements Annua	Revenue Requirement	Responsible Customer(s)
		Load-Ratio Share Allocation:
		AEC (1.61%) / AEP (14.10%)
		/ APS (5.79%) / ATSI (7.95%)
		/ BGE (4.11%) / ComEd
		(13.24%) / Dayton (2.07%) /
		DEOK (3.22%) / DL (1.73%) /
		DPL (2.48%) / Dominion
ild the Carson – Rogers		(13.17%) / EKPC (2.13%) /
Rd 500 kV circuit		JCPL (3.71%) / ME (1.88%) /
		NEPTUNE* (0.42%) / PECO
		(5.34%) / PENELEC (1.86%) /
		PEPCO (3.98%) / PPL (4.76%)
		/ PSEG (6.19%) / RE (0.26%)
		DFAX Allocation:
		Dominion (100%)
ebuild 21.32 miles of		· ·
existing line between		Dominion (100%)
		_ = ===================================
ild Line #137 Ridge Rd		
– Kerr Dam 115 kV, 8.0		Dominion (100%)
		Dominion (100%)
emergency rating		
hase City 115 kV, 9.5		D (1000()
s, for 346 MVA summer	Dominion (100%)	Dominion (100%)
emergency rating		
	Dominion	Dominion (100%)
Ridge Rd		
tall a Motor Operated		
		D :: (1000/)
		Dominion (100%)
tEnergy's 115 kV line		
	ebuild 21.32 miles of xisting line between lesterfield – Lakeside 230 kV ild Line #137 Ridge Rd Xerr Dam 115 kV, 8.0 , for 346 MVA summer emergency rating ld Line #1009 Ridge Rd hase City 115 kV, 9.5 , for 346 MVA summer emergency rating ll a second 4.8 MVAR itor bank on the 13.8 kV of each transformer at Ridge Rd tall a Motor Operated ch and SCADA control etween Dominion's onsville 115 kV bus and	ild the Carson – Rogers Rd 500 kV circuit Ebuild 21.32 miles of existing line between lesterfield – Lakeside 230 kV ild Line #137 Ridge Rd Gerr Dam 115 kV, 8.0 In the following for the following

Required 11a	ansmission Ennancements Annua	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
b2758	Rebuild Line #549 Dooms – Valley 500kV		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		Dominion (99.88%) Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)

Required 11		Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Required 11	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

Required 113		Revenue Requirement	Responsible Customer(s)
b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2928	Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace the river crossing conductor with 3-1534 ACSR. This will increase the line #567 line rating from 1954 MVA to 2600 MVA		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b2929	Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards with a standard conductor (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%) Dominion (100%)
b2960	Replace fixed series capacitors on 500 kV Line #547 at Lexington and on 500 kV Line #548 at Valley		See sub-IDs for cost allocations

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)			
		Load-Ratio Share Allocation:	
		AEC (1.61%) / AEP (14.10%) / APS	
		(5.79%) / ATSI (7.95%) / BGE	
		(4.11%) / ComEd (13.24%) / Dayton	
		(2.07%) / DEOK (3.22%) / DL	
		(1.73%) / DPL (2.48%) / Dominion	
	Replace fixed series	(13.17%) / EKPC (2.13%) / JCPL	
b2960.1	capacitors on 500 kV Line #547 at Lexington	(3.71%) / ME (1.88%) / NEPTUNE*	
		(0.42%)/PECO(5.34%)/	
		PENELEC (1.86%) / PEPCO	
		(3.98%) / PPL (4.76%) / PSEG	
		(6.19%) / RE (0.26%)	
		DFAX Allocation:	
		DEOK (6.04%) / Dominion	
		(91.37%) / EKPC (2.59%)	
		Load-Ratio Share Allocation:	
		AEC (1.61%) / AEP (14.10%) / APS	
		(5.79%) / ATSI (7.95%) / BGE	
		(4.11%) / ComEd (13.24%) / Dayton	
	Replace fixed series capacitors on 500 kV Line #548 at Valley	(2.07%) / DEOK (3.22%) / DL	
		(1.73%) / DPL (2.48%) / Dominion	
		(13.17%) / EKPC (2.13%) / JCPL	
b2960.2		(3.71%) / ME (1.88%) / NEPTUNE*	
		(0.42%) / PECO (5.34%) /	
		PENELEC (1.86%) / PEPCO	
		(3.98%) / PPL (4.76%) / PSEG	
		(6.19%) / RE (0.26%)	
		DFAX Allocation:	
		DEOK (29.79%) / Dominion	
		(60.32%) / EKPC (9.89%)	
b2961	Rebuild approximately 3 miles of Line #205 & Line #2003 from Chesterfield to	Dominion (100%)	
	Locks & Poe respectively Split Line #227		
b2962	(Brambleton – Beaumeade	D :: (1000()	
	230 kV) and terminate into	Dominion (100%)	
	existing Belmont substation		
b2962.1	Replace the Beaumeade 230 kV breaker		
	"274T2081" with 63kA	Dominion (100%)	
	breaker		
	Replace the NIVO 230 kV		
b2962.2	breaker "2116T2130" with	Dominion (100%)	
	63kA breaker		

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)				
b2963	Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and replace line terminal equipment at Possum Point, Woodbridge, and Occoquan		Dominion (100%)	
b2978	Install 2-125 MVAR STATCOMs at Rawlings and 1-125 MVAR STATCOM at Clover 500 kV substations		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation:	
b2980	Rebuild 115 kV Line #43 between Staunton and Harrisonburg (22.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%) Dominion (100%)	
b2981	Rebuild 115 kV Line #29 segment between Fredericksburg and Aquia Harbor to current 230 kV standards (operating at 115 kV) utilizing steel H-frame structures with 2-636 ACSR to provide a normal continuous summer rating of 524 MVA at 115 kV (1047 MVA at 230 kV)		Dominion (100%)	

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) Install a second 230/115 kV Transformer (224 MVA) approximately 1 mile north of Bremo and tie 230 kV Line #2028 (Bremo -Charlottesville) and 115 kV Line #91 (Bremo -Sherwood) together. A three breaker 230 kV ring bus will split Line #2028 into two b2989 Dominion (100%) lines and Line #91 will also be split into two lines with a new three breaker 115 kV ring bus. Install a temporary 230/115 kV transformer at Bremo substation for the interim until the new substation is complete Chesterfield to Basin 230 kV line – Replace 0.14 miles of 1109 ACAR with a conductor b2990 Dominion (100%) which will increase the line rating to approximately 706 MVA Chaparral to Locks 230 kV b2991 Dominion (100%) line – Replace breaker lead Acquire land and build a new switching station (Skippers) at the tap serving Brink DP b2994 Dominion (100%) with a 115 kV four breaker ring to split Line #130 and terminate the end points **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion Rebuild 500 kV Line #552 (13.17%) / EKPC (2.13%) / b3019 Bristers to Chancellor – 21.6 JCPL (3.71%) / ME (1.88%) / miles long NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** Dominion (89.20%) / PEPCO (10.80%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / Rebuild 500 kV Line #574 JCPL (3.71%) / ME (1.88%) / b3020 Ladysmith to Elmont – 26.2 NEPTUNE* (0.42%) / PECO miles long (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** APS (16.36%) / DEOK (11.61%) / Dominion (51.27%) / EKPC (5.30%) / PEPCO (15.46%)**Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion Rebuild 500 kV Line #581 Ladysmith to Chancellor – b3021 (13.17%) / EKPC (2.13%) / 15.2 miles long JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** Dominion (100%)

Version: 19.2.0

Effective Date: January 31, 2019

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required 1	ransmission Ennancements Annua	ai Kevenue Kequitement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

	revenue requirement	responsible editioner(s)
Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)
	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker Replace the Brambleton 230 kV breaker '213702' with 63kA breaker Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line will be relocated as an underbuild on the new 500 kV line with 63kA Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA Replace the Beaumeade 230 kV breaker '208192' with 63kA Replace the Beaumeade 230 kV breaker '209592' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker '227T2130' with 63kA Replace the Beaumeade 230 kV breaker '227T2130' with 63kA	Build a 2nd Loudoun - Brambleton 230 kV breaker Beplace the Brambleton 230 kV breaker 'H302' with 63kA breaker Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA Replace the Beaumeade 230 kV breaker '208192' with 63kA Replace the Beaumeade 230 kV breaker '209592' with 63kA Replace the Beaumeade 230 kV breaker '211692' with 63kA Replace the Beaumeade 230 kV breaker '227T2130' with 63kA Replace the Beaumeade 230 kV breaker '227T2130' with 63kA Replace the Beaumeade 230 kV breaker '227T2130' with 63kA

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

required 1		nnuai Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1		Annuai Revenue Requirement	Responsible Customer(s)
	Replace 4.5 miles of conductor between		
	Carolina 115 kV and		
	Jackson DP 115 kV with		
b2458.5	min. 300 MVA summer		
02436.3	STE rating; Replace 8		Dominion (100%)
	wood H-frame structures		
	located between Carolina		
	and Jackson DP with steel H-frames		
	Replace Hanover 230 kV		
b2460.1	substation line switches		
02400.1	with 3000A switches		Dominion (100%)
	Replace wave traps at		
	Four River 230 kV and		
b2460.2	Elmont 230 kV		Dominion (100%)
	substations with 3000A		Dominion (100%)
	wave traps		
	Wreck and rebuild		
L2461	existing Remington CT – Warrenton 230 kV		
b2461	(approx. 12 miles) as a		Dominion (100%)
	double-circuit 230 kV line		
	Construct a new 230 kV		
	line approximately 6 miles		
b2461.1	from NOVEC's Wheeler		
02401.1	Substation a new 230 kV		Dominion (100%)
	switching station in Vint		
	Hill area		
	Convert NOVEC's		
b2461.2	Gainesville – Wheeler line (approximately 6 miles) to		Dominion (1000/)
	230 kV	'	Dominion (100%)
	Complete a Vint Hill –		
b2461.3	Wheeler – Loudoun 230		D(1000/)
	kV networked line		Dominion (100%)

Kequite 1	Tansmission Emancements Amilia	ai Kevenue Kequirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
	Replace Midlothian 500 kV		(13.24%) / Dayton (2.07%) /
	breaker 563T576 and motor		DEOK (3.22%) / DL (1.73%) /
	operated switches with 3		DPL (2.48%) / Dominion
b2471	breaker 500 kV ring bus.		(13.17%) / EKPC (2.13%) /
	Terminate Lines # 563 Carson – Midlothian, #576		JCPL (3.71%) / ME (1.88%) /
	Midlothian –North Anna,		NEPTUNE* (0.42%) / PECO
	Transformer #2 in new ring		(5.34%) / PENELEC (1.86%) /
	_		PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 115 kV Line #32		
	from Halifax-South Boston (6		
1.2504	miles) for min. of 240 MVA		
b2504	and transfer Welco tap to Line		Dominion (100%)
	#32. Moving Welco to Line #32 requires disabling auto-		,
	sectionalizing scheme		
	Install structures in river to		
	remove the 115 kV #65 line		
b2505	(Whitestone-Harmony Village		Dominion (100%)
	115 kV) from bridge and improve reliability of the line		` ,
	Replace the Loudoun 500 kV		
b2542	'H2T502' breaker with a		Daminian (1000/)
	50kA breaker		Dominion (100%)
10540	Replace the Loudoun 500 kV		
b2543	'H2T584' breaker with a		Dominion (100%)
	50kA breaker Reconductor wave trap at		` ,
b2565	Carver Substation with a		D (1000()
	2000A wave trap		Dominion (100%)
	Reconductor 1.14 miles of		
b2566	existing line between ACCA		D :: (1000()
02000	and Hermitage and upgrade		Dominion (100%)
	associated terminal equipment		

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / Rebuild the Elmont – b2582 Cunningham 500 kV line JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** APS (9.27%) / Dominion (90.73%)Install 500 kV breaker at Ox Substation to remove b2583 Dominion (100%) Ox Tx#1 from H1T561 breaker failure outage. Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and b2584 Dominion (100%) Cartersville distribution station to #2027 (Bremo-Midlothian 230 kV) line Reconductor 7.63 miles of existing line between b2585 Cranes and Stafford, PEPCO (100%) upgrade associated line switches at Stafford Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; b2620 Dominion (100%) minimum rating 239 MVA normal/emergency, 275 MVA load dump rating

Required 1	ransmission Enhancements An	inual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required 1		ual Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82 Everetts – Voice of America		
b2628	(20.8 miles) to current standards with a summer		Dominion (100%)
	emergency rating of 261		
	MVA at 115 kV Rebuild the 115 kV Lines		
	#27 and #67 lines from		
10.00	Greenwich 115 kV to Burton		5
b2629	115 kV Structure 27/280 to current standard with a		Dominion (100%)
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on Gravel Neck Power Station		
1.0.000	GSU units #4 and #5. Install		5 (1000()
b2630	two 230 kV CCVT's on		Dominion (100%)
	Lines #2407 and #2408 for		
	loss of source sensing Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
b2636	Reactor at Dahlgren to provide line protection		Dominion (100%)
02030	during maintenance, remove		Dominion (100%)
	the operational hazard and		
	provide voltage reduction		
	during light load conditions Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current standards with summer		Dominion (100%)
	emergency rating of 353		,
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
b2648	Dam 115 kV Line #90 (38.7 miles) to current standards		Dominion (100%)
02040	with summer emergency		Dominion (10070)
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse – Carolina 115 kV Line #130		
h2640	(17.8 miles) to current		Daminian (1000/)
b2649	standards with summer		Dominion (100%)
	emergency rating of 353 MVA at 115 kV.		
	111 1 11 Ut 11 J K 1 .		

Required 1	Tansinission Enhancements Ann	uai Kevenue Kequirement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Required 118		uai Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

required 11	ansimission Emiancements Anni	uai Kevenue Kequitement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
b2665	Rebuild the Cunningham – Dooms 500 kV line		(13.17%) / EKPC (2.13%) /
	Dooms 300 k v mic		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
b2686	Pratts Area Improvement		Dominion (100%)
	1		Dominion (10070)
	Build a 230 kV line from		
b2686.1	Remington Substation to Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
	Upgrading sections of the		
b2686.11	Gordonsville – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
	kV circuit		` ′
1-2000 12	Upgrading sections of the		Daminia, (1000/)
b2686.13	Orange – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		
h2696 2	Install a 3rd 230/115 kV transformer at Gordonsville		Dominion (100%)
b2686.2	Substation		Dominion (100%)
L		l .	

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements		Annual Revenue Requirement Responsible Customer(s)	
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Required 112	ansmission Ennancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
b2744	Rebuild the Carson – Rogers		(13.17%) / EKPC (2.13%) /
	Rd 500 kV circuit		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 21.32 miles of		,
b2745	existing line between Chesterfield – Lakeside		Dominion (100%)
02143			Dominion (100%)
	230 kV Rebuild Line #137 Ridge Rd		
1.0746.1	- Kerr Dam 115 kV, 8.0		D :: (1000()
b2746.1	miles, for 346 MVA summer		Dominion (100%)
	emergency rating		
	Rebuild Line #1009 Ridge Rd		
b2746.2	- Chase City 115 kV, 9.5 miles, for 346 MVA summer		Dominion (100%)
	emergency rating		
	Install a second 4.8 MVAR		
b2746.3	capacitor bank on the 13.8 kV		Dominion (100%)
	bus of each transformer at		2011111011 (10070)
	Ridge Rd Install a Motor Operated		
	Switch and SCADA control		
b2747	between Dominion's		Dominion (100%)
	Gordonsville 115 kV bus and		· · ·
	FirstEnergy's 115 kV line		

Required 11a	ansmission Ennancements Annua	Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
b2758	Rebuild Line #549 Dooms – Valley 500kV		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		Dominion (99.88%) Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)

Required 11		Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Required 11	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

Required 118	ansimission Emiancements Amida	Revenue Requirement	Responsible Customer(s)
b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2928	Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace the river crossing conductor with 3-1534 ACSR. This will increase the line #567 line rating from 1954 MVA to 2600 MVA		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
			DFAX Allocation: Dominion (100%)
b2929	Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards with a standard conductor (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2960	Replace fixed series capacitors on 500 kV Line #547 at Lexington and on 500 kV Line #548 at Valley		See sub-IDs for cost allocations

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion Replace fixed series (13.17%) / EKPC (2.13%) / capacitors on 500 kV Line b2960.1 JCPL (3.71%) / ME (1.88%) / #547 at Lexington NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** DEOK (6.04%) / Dominion (91.37%) / EKPC (2.59%) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion Replace fixed series (13.17%) / EKPC (2.13%) / capacitors on 500 kV Line b2960.2 JCPL (3.71%) / ME (1.88%) / #548 at Valley NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX** Allocation: DEOK (29.79%) / Dominion (60.32%) / EKPC (9.89%) Rebuild approximately 3 miles of Line #205 & Line b2961 Dominion (100%) #2003 from Chesterfield to Locks & Poe respectively

		 (-)
b2962	Split Line #227 (Brambleton – Beaumeade 230 kV) and terminate into existing Belmont substation	Dominion (100%)
b2962.1	Replace the Beaumeade 230 kV breaker "274T2081" with 63kA breaker	Dominion (100%)
b2962.2	Replace the NIVO 230 kV breaker "2116T2130" with 63kA breaker	Dominion (100%)

required 1	ransmission Ennancements Ann	uai Revenue Requirement Responsible Customer(s)
b2963	Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and replace line terminal equipment at Possum Point, Woodbridge, and Occoquan	Dominion (100%)
b2978	Install 2-125 MVAR STATCOMs at Rawlings and 1-125 MVAR STATCOM at Clover 500 kV substations	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%)
		DFAX Allocation: Dominion (100%)
b2980	Rebuild 115 kV Line #43 between Staunton and Harrisonburg (22.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV	Dominion (100%)
b2981	Rebuild 115 kV Line #29 segment between Fredericksburg and Aquia Harbor to current 230 kV standards (operating at 115 kV) utilizing steel H-frame structures with 2-636 ACSR to provide a normal continuous summer rating of 524 MVA at 115 kV (1047 MVA at 230 kV)	Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

Required 113		Revenue Requirement	Responsible Customer(s)
b2989	Install a second 230/115 kV Transformer (224 MVA) approximately 1 mile north of Bremo and tie 230 kV Line #2028 (Bremo – Charlottesville) and 115 kV Line #91 (Bremo - Sherwood) together. A three breaker 230 kV ring bus will split Line #2028 into two lines and Line #91 will also be split into two lines with a new three breaker 115 kV ring bus. Install a temporary 230/115 kV transformer at Bremo substation for the interim until the new substation is complete		Dominion (100%)
b2990	Chesterfield to Basin 230 kV line – Replace 0.14 miles of 1109 ACAR with a conductor which will increase the line rating to approximately 706 MVA		Dominion (100%)
b2991	Chaparral to Locks 230 kV line – Replace breaker lead		Dominion (100%)
b2994	Acquire land and build a new switching station (Skippers) at the tap serving Brink DP with a 115 kV four breaker ring to split Line #130 and terminate the end points		Dominion (100%)
b3018	Rebuild Line #49 between New Road and Middleburg substations with single circuit steel structures to current 115 kV standards with a minimum summer emergency rating of 261 MVA		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion Rebuild 500 kV Line #552 (13.17%) / EKPC (2.13%) / b3019 Bristers to Chancellor – 21.6 JCPL (3.71%) / ME (1.88%) / miles long NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** Dominion (89.20%) / PEPCO (10.80%)**Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / Rebuild 500 kV Line #574 JCPL (3.71%) / ME (1.88%) / Ladysmith to Elmont – 26.2 b3020 NEPTUNE* (0.42%) / PECO miles long (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** APS (16.36%) / DEOK (11.61%) / Dominion (51.27%) / EKPC (5.30%) / PEPCO (15.46%)

required 11	distinssion Lindicentents Timud	Revenue Requirement	responsible customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
	Rebuild 500 kV Line #581		DPL (2.48%) / Dominion
b3021	Ladysmith to Chancellor –		(13.17%) / EKPC (2.13%) /
	15.2 miles long		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
		, , , , , , , , , , , , , , , , , , , ,	
		PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation:	
			Dominion (100%)
	Reconductor Line #274		
	(Pleasant View – Ashburn – Beaumeade 230 kV) with a		
b3026	minimum rating of 1200		Dominion (100%)
	MVA. Also upgrade terminal		
	equipment		

Version: 20.1.0

Effective Date: April 4, 2019

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required I		ue Requirement Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating	Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker	Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker	Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project	Dominion (100%)
b2281	Additional Temporary SPS at Bath County	Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater	Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation	Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station	Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way	Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation	Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 1	ransmission Emancements Annual	Revenue Requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

rtequired i		illuai Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of 174 MVA		Dominion (100%)
b2458.3	Replace 14 wood H-frame structures on Carolina – Woodland 115 kV		Dominion (100%)
b2458.4	Replace 2.5 miles of static wire on Carolina – Woodland 115 kV		Dominion (100%)

Required 1		Annuai Revenue Requirement	Responsible Customer(s)
	Replace 4.5 miles of conductor between		
	Carolina 115 kV and		
	Jackson DP 115 kV with		
b2458.5	min. 300 MVA summer		
02436.3	STE rating; Replace 8		Dominion (100%)
	wood H-frame structures		
	located between Carolina		
	and Jackson DP with steel H-frames		
	Replace Hanover 230 kV		
b2460.1	substation line switches		
02400.1	with 3000A switches		Dominion (100%)
	Replace wave traps at		
	Four River 230 kV and		
b2460.2	Elmont 230 kV		Dominion (100%)
	substations with 3000A		Dominion (100%)
	wave traps		
	Wreck and rebuild		
L2461	existing Remington CT – Warrenton 230 kV		
b2461	(approx. 12 miles) as a		Dominion (100%)
	double-circuit 230 kV line		
	Construct a new 230 kV		
	line approximately 6 miles	5	
b2461.1	from NOVEC's Wheeler		
02401.1	Substation a new 230 kV		Dominion (100%)
	switching station in Vint		
	Hill area		
	Convert NOVEC's		
b2461.2	Gainesville – Wheeler line (approximately 6 miles) to		Dominion (1000/)
	230 kV	'	Dominion (100%)
	Complete a Vint Hill –		
b2461.3	Wheeler – Loudoun 230		D (1000/)
	kV networked line		Dominion (100%)

'H2T584' breaker with a

50kA breaker
Reconductor wave trap at

Carver Substation with a

2000A wave trap
Reconductor 1.14 miles of existing line between ACCA

and Hermitage and upgrade

associated terminal equipment

b2543

b2565

b2566

Required Transmission Enhancements Annual Revenue Requirement

Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd Replace Midlothian 500 kV (13.24%) / Dayton (2.07%) / breaker 563T576 and motor DEOK (3.22%) / DL (1.73%) / operated switches with 3 DPL (2.48%) / Dominion breaker 500 kV ring bus. b2471 (13.17%) / EKPC (2.13%) / Terminate Lines # 563 Carson JCPL (3.71%) / ME (1.88%) / - Midlothian, #576 NEPTUNE* (0.42%) / PECO Midlothian –North Anna, Transformer #2 in new ring (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** Dominion (100%) Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA b2504 and transfer Welco tap to Line Dominion (100%) #32. Moving Welco to Line #32 requires disabling autosectionalizing scheme Install structures in river to remove the 115 kV #65 line b2505 (Whitestone-Harmony Village Dominion (100%) 115 kV) from bridge and improve reliability of the line Replace the Loudoun 500 kV b2542 'H2T502' breaker with a Dominion (100%) 50kA breaker Replace the Loudoun 500 kV

Responsible Customer(s)

Dominion (100%)

Dominion (100%)

Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / Rebuild the Elmont – b2582 Cunningham 500 kV line JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** APS (9.27%) / Dominion (90.73%)Install 500 kV breaker at Ox Substation to remove b2583 Dominion (100%) Ox Tx#1 from H1T561 breaker failure outage. Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and b2584 Dominion (100%) Cartersville distribution station to #2027 (Bremo-Midlothian 230 kV) line Reconductor 7.63 miles of existing line between b2585 Cranes and Stafford, PEPCO (100%) upgrade associated line switches at Stafford Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; b2620 Dominion (100%) minimum rating 239 MVA normal/emergency, 275 MVA load dump rating

Kequileu I		muai Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required 1		ual Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82 Everetts – Voice of America		
b2628	(20.8 miles) to current		Dominion (100%)
	standards with a summer		Dominion (10070)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
1-2620	Greenwich 115 kV to Burton		D (1000/)
b2629	115 kV Structure 27/280 to current standard with a		Dominion (100%)
	summer emergency rating of		
	262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
b2630	GSU units #4 and #5. Install		Dominion (100%)
02000	two 230 kV CCVT's on		20111111011 (10070)
	Lines #2407 and #2408 for		
	loss of source sensing Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		
b2636	provide line protection		Dominion (100%)
02030	during maintenance, remove		Bommon (10070)
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
02017	standards with summer		Dominion (10070)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr Dam 115 kV Line #90 (38.7		
b2648	miles) to current standards		Dominion (100%)
	with summer emergency		Dominion (100%)
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
b2649	Carolina 115 kV Line #130		
	(17.8 miles) to current		Daminian (1000/)
	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		

Required 1	ransmission Enhancements Annu	uai Revenue Requirement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Required 11		iai Kevenue Kequitement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)

Required 116	ansimission Emiancements Anni	uai Kevenue Kequirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
	Dahwild the Cunningly		DPL (2.48%) / Dominion
b2665	Rebuild the Cunningham – Dooms 500 kV line		(13.17%) / EKPC (2.13%) /
	Dooms 300 kv ime		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
1-2000	Duetta Anna Imanuayana ant		Danisian (1000/)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
b2686.1	Remington Substation to		Dominion (100%)
02000.1	Gordonsville Substation utilizing existing ROW		2011111011 (10070)
	Upgrading sections of the		
b2686.11	Gordonsville – Somerset		Dominion (100%)
02000.11	115 kV circuit		` /
1.0.0.0.0.0	Upgrading sections of the		D :: (1000()
b2686.12	Somerset – Doubleday 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.13	Orange – Somerset 115 kV		Dominion (100%)
	circuit		(· · /
b2686.14	Upgrading sections of the		D :: (1000()
	Mitchell – Mt. Run 115 kV circuit		Dominion (100%)
	Install a 3rd 230/115 kV		
b2686.2	transformer at Gordonsville		Dominion (100%)
	Substation		- ()

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements		Annual Revenue Requirement Responsible Customer(s)	
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Required Tr	ansmission Enhancements Annua	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
b2744	Rebuild the Carson – Rogers		(13.17%) / EKPC (2.13%) /
	Rd 500 kV circuit		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 21.32 miles of		,
b2745	existing line between		Dominion (100%)
	Chesterfield – Lakeside 230 kV		
	Rebuild Line #137 Ridge Rd		
b2746.1	– Kerr Dam 115 kV, 8.0		Dominion (100%)
02/40.1	miles, for 346 MVA summer		
	emergency rating Rebuild Line #1009 Ridge Rd		
	- Chase City 115 kV, 9.5		
b2746.2	miles, for 346 MVA summer		Dominion (100%)
	emergency rating		
	Install a second 4.8 MVAR		
b2746.3	capacitor bank on the 13.8 kV bus of each transformer at		Dominion (100%)
	Ridge Rd		, , ,
	Install a Motor Operated		
b2747	Switch and SCADA control		
	between Dominion's		Dominion (100%)
	Gordonsville 115 kV bus and FirstEnergy's 115 kV line		
	Install a +/-125 MVAr		
b2757	Statcom at Colington 230 kV		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion Rebuild Line #549 Dooms -(13.17%) / EKPC (2.13%) / b2758 Valley 500kV JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** APS (0.09%) / DL (0.03%) / Dominion (99.88%) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / Rebuild Line #550 Mt. Storm b2759 JCPL (3.71%) / ME (1.88%) / - Valley 500kV NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** APS (87.50%) / ATSI (0.37%) / DL (0.19%) / Dominion (1.04%) / EKPC (10.90%)

Required 11		Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)

Required 11		Revenue Requirement	Responsible Customer(s)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)
b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd Rebuild four structures of 500 (13.24%) / Dayton (2.07%) / kV line #567 from DEOK (3.22%) / DL (1.73%) / Chickahominy to Surry using DPL (2.48%) / Dominion galvanized steel and replace (13.17%) / EKPC (2.13%) / the river crossing conductor b2928 with 3-1534 ACSR. This will JCPL (3.71%) / ME (1.88%) / increase the line #567 line NEPTUNE* (0.42%) / PECO rating from 1954 MVA to (5.34%) / PENELEC (1.86%) / 2600 MVA PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** Dominion (100%)Rebuild 230 kV line #2144 from Winfall to Swamp (4.3) miles) to current standards b2929 with a standard conductor Dominion (100%) (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV Replace fixed series See sub-IDs for cost capacitors on 500 kV Line b2960 #547 at Lexington and on 500 allocations kV Line #548 at Valley **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion Replace fixed series (13.17%) / EKPC (2.13%) / b2960.1 capacitors on 500 kV Line JCPL (3.71%) / ME (1.88%) / #547 at Lexington NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** DEOK (6.04%) / Dominion (91.37%) / EKPC (2.59%)

Required 1ra	ansmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
	Danlaga fired assign		DPL (2.48%) / Dominion
b2960.2	Replace fixed series capacitors on 500 kV Line		(13.17%) / EKPC (2.13%) /
02900.2	#548 at Valley		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			DEOK (29.79%) / Dominion
			(60.32%) / EKPC (9.89%)
	Rebuild approximately 3 miles of Line #205 & Line		
b2961	#2003 from Chesterfield to	Dominion (1	Dominion (100%)
	Locks & Poe respectively		
	Split Line #227 (Brambleton		
b2962	– Beaumeade 230 kV) and		Dominion (100%)
02702	terminate into existing Belmont substation		2011111011 (10070)
	Replace the Beaumeade 230		
b2962.1	kV breaker "274T2081" with		Dominion (100%)
	63kA breaker		= 0(100,0)
1.20.62.6	Replace the NIVO 230 kV		- (1000/)
b2962.2	breaker "2116T2130" with 63kA breaker		Dominion (100%)
	USKA UICAKCI		

Required T	ransmission Enhancements Ann	ual Revenue Requireme	ent Responsible Customer(s)
b2963	Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and replace line terminal equipment at Possum Point, Woodbridge, and Occoquan		Dominion (100%)
b2978	Install 2-125 MVAR STATCOMs at Rawlings and 1-125 MVAR STATCOM at Clover 500 kV substations		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) DFAX Allocation:
b2980	Rebuild 115 kV Line #43 between Staunton and Harrisonburg (22.8 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%) Dominion (100%)
b2981	Rebuild 115 kV Line #29 segment between Fredericksburg and Aquia Harbor to current 230 kV standards (operating at 115 kV) utilizing steel H-frame structures with 2-636 ACSR to provide a normal continuous summer rating of 524 MVA at 115 kV (1047 MVA at 230 kV)		Dominion (100%)

^{*}Neptune Regional Transmission System, LLC

Required 113		Revenue Requirement	Responsible Customer(s)
b2989	Install a second 230/115 kV Transformer (224 MVA) approximately 1 mile north of Bremo and tie 230 kV Line #2028 (Bremo – Charlottesville) and 115 kV Line #91 (Bremo - Sherwood) together. A three breaker 230 kV ring bus will split Line #2028 into two lines and Line #91 will also be split into two lines with a new three breaker 115 kV ring bus. Install a temporary 230/115 kV transformer at Bremo substation for the interim until the new substation is complete		Dominion (100%)
b2990	Chesterfield to Basin 230 kV line – Replace 0.14 miles of 1109 ACAR with a conductor which will increase the line rating to approximately 706 MVA		Dominion (100%)
b2991	Chaparral to Locks 230 kV line – Replace breaker lead		Dominion (100%)
b2994	Acquire land and build a new switching station (Skippers) at the tap serving Brink DP with a 115 kV four breaker ring to split Line #130 and terminate the end points		Dominion (100%)
b3018	Rebuild Line #49 between New Road and Middleburg substations with single circuit steel structures to current 115 kV standards with a minimum summer emergency rating of 261 MVA		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion Rebuild 500 kV Line #552 (13.17%) / EKPC (2.13%) / Bristers to Chancellor – 21.6 b3019 JCPL (3.71%) / ME (1.88%) / miles long NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** Dominion (89.20%) / PEPCO (10.80%)**Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / Rebuild 500 kV Line #574 JCPL (3.71%) / ME (1.88%) / Ladysmith to Elmont – 26.2 b3020 NEPTUNE* (0.42%) / PECO miles long (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** APS (16.36%) / DEOK (11.61%) / Dominion (51.27%) / EKPC (5.30%) / PEPCO (15.46%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / Rebuild 500 kV Line #581 Ladysmith to Chancellor – DPL (2.48%) / Dominion b3021 (13.17%) / EKPC (2.13%) / 15.2 miles long JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** Dominion (100%)

Required 113		Revenue Requirement	Responsible Customer(s)
b3026	Reconductor Line #274 (Pleasant View – Ashburn – Beaumeade 230 kV) with a minimum rating of 1200 MVA. Also upgrade terminal equipment		Dominion (100%)
b3027.1	Add a 2nd 500/230 kV 840 MVA transformer at Dominion's Ladysmith substation		Dominion (100%)
b3027.2	Reconductor 230 kV Line #2089 between Ladysmith and Ladysmith CT substations to increase the line rating from 1047 MVA to 1225 MVA		Dominion (100%)
b3027.3	Replace the Ladysmith 500 kV breaker "H1T581" with 50kA breaker		Dominion (100%)
b3027.4	Update the nameplate for Ladysmith 500 kV breaker "H1T575" to be 50kA breaker		Dominion (100%)
b3027.5	Update the nameplate for Ladysmith 500 kV breaker "568T574" (will be renumbered as "H2T568") to be 50kA breaker		Dominion (100%)
b3056	Partial rebuild 230 kV Line #2113 Waller to Lightfoot		Dominion (100%)
b3057	Rebuild 230 kV Lines #2154 and #19 Waller to Skiffes Creek		Dominion (100%)
b3058	Partial rebuild of 230 kV Lines #265, #200 and #2051		Dominion (100%)

Version: 21.1.0

Effective Date: June 12, 2019

SCHEDULE 12 – APPENDIX A

(20) Virginia Electric and Power Company

Required 1	ransmission Ennancements Annua	ai Kevenue Kequitement	Responsible Customer(s)
b1698.7	Replace Loudoun 230 kV breaker '203052' with 63kA rating		Dominion (100%)
b1696.1	Replace the Idylwood 230 kV '25112' breaker with 50kA breaker		Dominion (100%)
b1696.2	Replace the Idylwood 230 kV '209712' breaker with 50kA breaker		Dominion (100%)
b1793.1	Remove the Carolina 22 SPS to include relay logic changes, minor control wiring, relay resets and SCADA programming upon completion of project		Dominion (100%)
b2281	Additional Temporary SPS at Bath County		Dominion (100%)
b2350	Reconductor 211 feet of 545.5 ACAR conductor on 59 Line Elmont - Greenwood DP 115 kV to achieve a summer emergency rating of 906 amps or greater		Dominion (100%)
b2358	Install a 230 kV 54 MVAR capacitor bank on the 2016 line at Harmony Village Substation		Dominion (100%)
b2359	Wreck and rebuild approximately 1.3 miles of existing 230 kV line between Cochran Mill - X4-039 Switching Station		Dominion (100%)
b2360	Build a new 39 mile 230 kV transmission line from Dooms - Lexington on existing right- of-way		Dominion (100%)
b2361	Construct 230 kV OH line along existing Line #2035 corridor, approx. 2.4 miles from Idylwood - Dulles Toll Road (DTR) and 2.1 miles on new right-of-way along DTR to new Scott's Run Substation		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required 1	ransmission Enhancements Annual	Revenue Requirement	Responsible Customer(s)
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker		Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker		Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker		Dominion (100%)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA		Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA		Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA		Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA		Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA		Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA		Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA		Dominion (100%)

The Annual Revenue Requirement for all Virginia Electric and Power Company projects in this Section 20 shall be as specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B.

^{*}Neptune Regional Transmission System, LLC

Required 1	ransmission Enhancements A	Annual Revenue Requirement	Responsible Customer(s)
b2404	Replace the Beaumeade 230 kV breaker '227T2095' with 63kA		Dominion (100%)
b2405	Replace the Pleasant view 230 kV breaker '203T274' with 63kA		Dominion (100%)
b2443	Construct new underground 230 kV line from Glebe to Station C, rebuild Glebe Substation, construct 230 kV high side bus at Station C with option to install 800 MVA PAR		Dominion (97.11%) / ME (0.18%) / PEPCO (2.71%)
b2443.1	Replace the Idylwood 230 kV breaker '203512' with 50kA		Dominion (100%)
b2443.2	Replace the Ox 230 kV breaker '206342' with 63kA breaker		Dominion (100%)
b2443.3	Glebe – Station C PAR		DFAX Allocation: Dominion (22.57%) / PEPCO (77.43%)
b2443.6	Install a second 500/230 kV transformer at Possum Point substation and replace bus work and associated equipment as needed		Dominion (100%)
b2443.7	Replace 19 63kA 230 kV breakers with 19 80kA 230 kV breakers		Dominion (100%)
b2457	Replace 24 115 kV wood h-frames with 230 kV Dominion pole H-frame structures on the Clubhouse – Purdy 115 kV line		Dominion (100%)
b2458.1	Replace 12 wood H-frame structures with steel H- frame structures and install shunts on all conductor splices on Carolina – Woodland 115 kV		Dominion (100%)

Required T	ransmission Enhancements A	annual Revenue Requirement	Responsible Customer(s)
b2458.2	Upgrade all line switches and substation components at Carolina 115 kV to meet or exceed new conductor rating of		Dominion (100%)
b2458.3	174 MVA Replace 14 wood H-frame structures on Carolina – Woodland 115 kV Replace 2.5 miles of static		Dominion (100%)
b2458.4	wire on Carolina – Woodland 115 kV		Dominion (100%)
b2458.5	Replace 4.5 miles of conductor between Carolina 115 kV and Jackson DP 115 kV with min. 300 MVA summer STE rating; Replace 8 wood H-frame structures located between Carolina and Jackson DP with steel H-frames		Dominion (100%)
b2460.1	Replace Hanover 230 kV substation line switches with 3000A switches		Dominion (100%)
b2460.2	Replace wave traps at Four River 230 kV and Elmont 230 kV substations with 3000A wave traps		Dominion (100%)
b2461	Wreck and rebuild existing Remington CT – Warrenton 230 kV (approx. 12 miles) as a double-circuit 230 kV line		Dominion (100%)
b2461.1	Construct a new 230 kV line approximately 6 miles from NOVEC's Wheeler Substation a new 230 kV switching station in Vint Hill area		Dominion (100%)
b2461.2	Convert NOVEC's Gainesville – Wheeler line (approximately 6 miles) to 230 kV		Dominion (100%)
b2461.3	Complete a Vint Hill – Wheeler – Loudoun 230 kV networked line		Dominion (100%)

Required T	ransmission Enhancements Annua	al Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
	Replace Midlothian 500 kV		(13.24%) / Dayton (2.07%) /
	breaker 563T576 and motor		DEOK (3.22%) / DL (1.73%) /
	operated switches with 3		DPL (2.48%) / Dominion
b2471	breaker 500 kV ring bus. Terminate Lines # 563 Carson		(13.17%) / EKPC (2.13%) /
	– Midlothian, #576		JCPL (3.71%) / ME (1.88%) /
	Midlothian –North Anna,		NEPTUNE* (0.42%) / PECO
	Transformer #2 in new ring		(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
b2504	Rebuild 115 kV Line #32 from Halifax-South Boston (6 miles) for min. of 240 MVA and transfer Welco tap to Line #32. Moving Welco to Line #32 requires disabling auto- sectionalizing scheme		Dominion (100%)
b2505	Install structures in river to remove the 115 kV #65 line (Whitestone-Harmony Village 115 kV) from bridge and improve reliability of the line		Dominion (100%)
b2542	Replace the Loudoun 500 kV 'H2T502' breaker with a 50kA breaker		Dominion (100%)
b2543	Replace the Loudoun 500 kV 'H2T584' breaker with a 50kA breaker		Dominion (100%)
b2565	Reconductor wave trap at Carver Substation with a 2000A wave trap		Dominion (100%)
	Reconductor 1.14 miles of		
b2566	existing line between ACCA		5
32500	and Hermitage and upgrade associated terminal equipment		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / Rebuild the Elmont – b2582 Cunningham 500 kV line JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** APS (9.27%) / Dominion (90.73%)Install 500 kV breaker at Ox Substation to remove b2583 Dominion (100%) Ox Tx#1 from H1T561 breaker failure outage. Relocate the Bremo load (transformer #5) to #2028 (Bremo-Charlottesville 230 kV) line and b2584 Dominion (100%) Cartersville distribution station to #2027 (Bremo-Midlothian 230 kV) line Reconductor 7.63 miles of existing line between b2585 Cranes and Stafford, PEPCO (100%) upgrade associated line switches at Stafford Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; b2620 Dominion (100%) minimum rating 239 MVA normal/emergency, 275 MVA load dump rating

Required 1		nnual Revenue Requirement	Responsible Customer(s)
b2622	Rebuild Line #47 between Kings Dominion 115 kV and Fredericksburg 115 kV to current standards with summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2623	Rebuild Line #4 between Bremo and Structure 8474 (4.5 miles) to current standards with a summer emergency rating of 261 MVA at 115 kV		Dominion (100%)
b2624	Rebuild 115 kV Lines #18 and #145 between Possum Point Generating Station and NOVEC's Smoketown DP (approx. 8.35 miles) to current 230 kV standards with a normal continuous summer rating of 524 MVA at 115 kV		Dominion (100%)
b2625	Rebuild 115 kV Line #48 between Thole Street and Structure 48/71 to current standard. The remaining line to Sewells Point is 2007 vintage. Rebuild 115 kV Line #107 line, Sewells Point to Oakwood, between structure 107/17 and 107/56 to current standard.		Dominion (100%)
b2626	Rebuild 115 kV Line #34 between Skiffes Creek and Yorktown and the double circuit portion of 115 kV Line #61 to current standards with a summer emergency rating of 353 MVA at 115 kV		Dominion (100%)
b2627	Rebuild 115 kV Line #1 between Crewe 115 kV and Fort Pickett DP 115 kV (12.2 miles) to current standards with summer emergency rating of 261 MVA at 115 kV		Dominion (100%)

Required 1		ual Revenue Requirement	Responsible Customer(s)
	Rebuild 115 kV Line #82 Everetts – Voice of America		
b2628	(20.8 miles) to current		Dominion (100%)
02020	standards with a summer		Bommon (10070)
	emergency rating of 261		
	MVA at 115 kV		
	Rebuild the 115 kV Lines		
	#27 and #67 lines from		
1.0.000	Greenwich 115 kV to Burton		D :: (1000()
b2629	115 kV Structure 27/280 to		Dominion (100%)
	current standard with a		
	summer emergency rating of 262 MVA at 115 kV		
	Install circuit switchers on		
	Gravel Neck Power Station		
	GSU units #4 and #5. Install		
b2630	two 230 kV CCVT's on		Dominion (100%)
	Lines #2407 and #2408 for		
	loss of source sensing		
	Install three 230 kV bus		
	breakers and 230 kV, 100		
	MVAR Variable Shunt		
	Reactor at Dahlgren to		
b2636	provide line protection		Dominion (100%)
	during maintenance, remove		` '
	the operational hazard and		
	provide voltage reduction		
	during light load conditions		
	Rebuild Boydton Plank Rd –		
	Kerr Dam 115 kV Line #38		
b2647	(8.3 miles) to current		Dominion (100%)
02017	standards with summer		2011111011 (10070)
	emergency rating of 353		
	MVA at 115 kV.		
	Rebuild Carolina – Kerr		
h2649	Dam 115 kV Line #90 (38.7 miles) to current standards		Daminian (1000/)
b2648	with summer emergency		Dominion (100%)
	rating of 353 MVA 115 kV.		
	Rebuild Clubhouse –		
	Carolina 115 kV Line #130		
1.0540	(17.8 miles) to current		D
b2649	standards with summer		Dominion (100%)
	emergency rating of 353		
	MVA at 115 kV.		

Required 1	ransmission Enhancements Annu	uai Revenue Requirement	Responsible Customer(s)
b2649.1	Rebuild of 1.7 mile tap to Metcalf and Belfield DP (MEC) due to poor condition. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2649.2	Rebuild of 4.1 mile tap to Brinks DP (MEC) due to wood poles built in 1962. The existing summer rating of the tap is 48 MVA and existing conductor is 4/0 ACSR and 393.6 ACSR on wood H-frames. The proposed new rating is 176 MVA using 636 ACSR conductor		Dominion (100%)
b2650	Rebuild Twittys Creek – Pamplin 115 kV Line #154 (17.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)

Required 11a		iai Revenue Requirement	Responsible Customer(s)
b2651	Rebuild Buggs Island – Plywood 115 kV Line #127 (25.8 miles) to current standards with summer emergency rating of 353 MVA at 115 kV. The line should be rebuilt for 230 kV and operated at 115 kV.		Dominion (100%)
b2652	Rebuild Greatbridge – Hickory 115 kV Line #16 and Greatbridge – Chesapeake E.C. to current standard with summer emergency rating of 353 MVA at 115 kV.		Dominion (100%)
b2653.1	Build 20 mile 115 kV line from Pantego to Trowbridge with summer emergency rating of 353 MVA.		Dominion (100%)
b2653.2	Install 115 kV four-breaker ring bus at Pantego		Dominion (100%)
b2653.3	Install 115 kV breaker at Trowbridge		Dominion (100%)
b2654.1	Build 15 mile 115 kV line from Scotland Neck to S Justice Branch with summer emergency rating of 353 MVA. New line will be routed to allow HEMC to convert Dawson's Crossroads RP from 34.5 kV to 115 kV.		Dominion (100%)
b2654.2	Install 115 kV three-breaker ring bus at S Justice Branch		Dominion (100%)
b2654.3	Install 115 kV breaker at Scotland Neck		Dominion (100%)
b2654.3	Install a 2nd 224 MVA 230/115 kV transformer at Hathaway		Dominion (100%)

required 11		iai Kevenue Kequiiemeni	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
b2665	Rebuild the Cunningham –		(13.17%) / EKPC (2.13%) /
02000	Dooms 500 kV line		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
			2011111011 (10070)
b2686	Pratts Area Improvement		Dominion (100%)
	Build a 230 kV line from		
	Remington Substation to		
b2686.1	Gordonsville Substation		Dominion (100%)
	utilizing existing ROW		
1000011	Upgrading sections of the		D :: (1000()
b2686.11	Gordonsville – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.12	Somerset – Doubleday 115		Dominion (100%)
	kV circuit		` /
1.0000 10	Upgrading sections of the		D :: (1000/)
b2686.13	Orange – Somerset 115 kV circuit		Dominion (100%)
	Upgrading sections of the		
b2686.14	Mitchell – Mt. Run 115 kV		Dominion (100%)
	circuit		` ′
10000	Install a 3rd 230/115 kV		D :: (1000()
b2686.2	transformer at Gordonsville Substation		Dominion (100%)
	Substation		

^{*}Neptune Regional Transmission System, LLC

Required Transmission Enhancements		Annual Revenue Requirement Responsible Customer(s)	
b2686.3	Upgrade Line 2088 between Gordonsville Substation and Louisa CT Station		Dominion (100%)
b2717.1	De-energize Davis – Rosslyn #179 and #180 69 kV lines		Dominion (100%)
b2717.2	Remove splicing and stop joints in manholes		Dominion (100%)
b2717.3	Evacuate and dispose of insulating fluid from various reservoirs and cables		Dominion (100%)
b2717.4	Remove all cable along the approx. 2.5 mile route, swab and cap-off conduits for future use, leave existing communication fiber in place		Dominion (100%)
b2719.1	Expand Perth substation and add a 115 kV four breaker ring		Dominion (100%)
b2719.2	Extend the Hickory Grove DP tap 0.28 miles to Perth and terminate it at Perth		Dominion (100%)
b2719.3	Split Line #31 at Perth and terminate it into the new ring bus with 2 breakers separating each of the line terminals to prevent a breaker failure from taking out both 115 kV lines		Dominion (100%)
b2720	Replace the Loudoun 500 kV 'H1T569' breakers with 50kA breaker		Dominion (100%)
b2729	Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorm, new 150 MVAR capacitor at Liberty		AEC (1.97%) / BGE (14.46%) / Dominion (35.33%) / DPL (3.78%) / JCPL (3.33%) / ME (2.53%) / Neptune (0.63%) / PECO (6.30%) / PEPCO (20.36%) / PPL (3.97%) / PSEG (7.34%)

Required Tr	ansmission Enhancements Annua	Revenue Requirement	Responsible Customer(s)
			Load-Ratio Share Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI (7.95%)
			/ BGE (4.11%) / ComEd
			(13.24%) / Dayton (2.07%) /
			DEOK (3.22%) / DL (1.73%) /
			DPL (2.48%) / Dominion
b2744	Rebuild the Carson – Rogers		(13.17%) / EKPC (2.13%) /
	Rd 500 kV circuit		JCPL (3.71%) / ME (1.88%) /
			NEPTUNE* (0.42%) / PECO
			(5.34%) / PENELEC (1.86%) /
			PEPCO (3.98%) / PPL (4.76%)
			/ PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 21.32 miles of		
b2745	existing line between		Dominion (100%)
02743	Chesterfield – Lakeside		Dominion (100%)
	230 kV Rebuild Line #137 Ridge Rd		
107461	- Kerr Dam 115 kV, 8.0		D :: (1000()
b2746.1	miles, for 346 MVA summer		Dominion (100%)
	emergency rating		
	Rebuild Line #1009 Ridge Rd		
b2746.2	- Chase City 115 kV, 9.5 miles, for 346 MVA summer		Dominion (100%)
	emergency rating		
	Install a second 4.8 MVAR		
b2746.3	capacitor bank on the 13.8 kV		Dominion (100%)
	bus of each transformer at		Dominion (10070)
	Ridge Rd Install a Motor Operated		
	Switch and SCADA control		
b2747	between Dominion's	Dominion (100%)	
	Gordonsville 115 kV bus and		, ,
	FirstEnergy's 115 kV line		

Required 11		i Revenue Requirement	Responsible Customer(s)
b2757	Install a +/-125 MVAr Statcom at Colington 230 kV		Dominion (100%)
			Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) /
b2758	Rebuild Line #549 Dooms – Valley 500kV		DEOR (3.22%) / DE (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)
			DFAX Allocation: APS (0.09%) / DL (0.03%) / Dominion (99.88%)
b2759	Rebuild Line #550 Mt. Storm – Valley 500kV		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
			PEPCO (3.98%) / PPL (4.769 / PSEG (6.19%) / RE (0.26%) DFAX Allocation: APS (87.50%) / ATSI (0.379)

Required 11		Revenue Requirement	Responsible Customer(s)
b2800	The 7 mile section from Dozier to Thompsons Corner of line #120 will be rebuilt to current standards using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Line is proposed to be rebuilt on single circuit steel monopole structure		Dominion (100%)
b2801	Lines #76 and #79 will be rebuilt to current standard using 768.2 ACSS conductor with a summer emergency rating of 346 MVA at 115 kV. Proposed structure for rebuild is double circuit steel monopole structure		Dominion (100%)
b2802	Rebuild Line #171 from Chase City – Boydton Plank Road tap by removing end- of-life facilities and installing 9.4 miles of new conductor. The conductor used will be at current standards with a summer emergency rating of 393 MVA at 115kV		Dominion (100%)
b2815	Build a new Pinewood 115kV switching station at the tap serving North Doswell DP with a 115kV four breaker ring bus		Dominion (100%)
b2842	Update the nameplate for Mount Storm 500 kV "57272" to be 50kA breaker		Dominion (100%)
b2843	Replace the Mount Storm 500 kV "G2TY" with 50kA breaker		Dominion (100%)
b2844	Replace the Mount Storm 500 kV "G2TZ" with 50kA breaker		Dominion (100%)

Required Ira	ansmission Enhancements Annua	Revenue Requirement	Responsible Customer(s)
b2845	Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50kA breaker		Dominion (100%)
b2846	Update the nameplate for Mount Storm 500 kV "SX172" to be 50kA breaker		Dominion (100%)
b2847	Update the nameplate for Mount Storm 500 kV "Y72" to be 50kA breaker		Dominion (100%)
b2848	Replace the Mount Storm 500 kV "Z72" with 50kA breaker		Dominion (100%)
b2871	Rebuild 230 kV line #247 from Swamp to Suffolk (31 miles) to current standards with a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2876	Rebuild line #101 from Mackeys – Creswell 115 kV, 14 miles, with double circuit structures. Install one circuit with provisions for a second circuit. The conductor used will be at current standards with a summer emergency rating of 262 MVA at 115 kV		Dominion (100%)
b2877	Rebuild line #112 from Fudge Hollow – Lowmoor 138 kV (5.16 miles) to current standards with a summer emergency rating of 314 MVA at 138 kV		Dominion (100%)
b2899	Rebuild 230 kV line #231 to current standard with a summer emergency rating of 1046 MVA. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2900	Build a new 230/115 kV switching station connecting to 230 kV network line #2014 (Earleys – Everetts). Provide a 115 kV source from the new station to serve Windsor DP		Dominion (100%)

required 11	ansimission Emancements Aminual	Revenue Requirement	Responsible Customer(s)
b2922	Rebuild 8 of 11 miles of 230 kV lines #211 and #228 to current standard with a summer emergency rating of 1046 MVA for rebuilt section. Proposed conductor is 2-636 ACSR		Dominion (100%)
b2928	Rebuild four structures of 500 kV line #567 from Chickahominy to Surry using galvanized steel and replace the river crossing conductor with 3-1534 ACSR. This will increase the line #567 line rating from 1954 MVA to 2600 MVA		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
			Dominion (100%)
b2929	Rebuild 230 kV line #2144 from Winfall to Swamp (4.3 miles) to current standards with a standard conductor (bundled 636 ACSR) having a summer emergency rating of 1047 MVA at 230 kV		Dominion (100%)
b2960	Replace fixed series capacitors on 500 kV Line #547 at Lexington and on 500 kV Line #548 at Valley		See sub-IDs for cost allocations

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion Replace fixed series (13.17%) / EKPC (2.13%) / capacitors on 500 kV Line b2960.1 JCPL (3.71%) / ME (1.88%) / #547 at Lexington NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** DEOK (6.04%) / Dominion (91.37%) / EKPC (2.59%) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion Replace fixed series (13.17%) / EKPC (2.13%) / capacitors on 500 kV Line b2960.2 JCPL (3.71%) / ME (1.88%) / #548 at Valley NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** DEOK (29.79%) / Dominion (60.32%) / EKPC (9.89%) Rebuild approximately 3 miles of Line #205 & Line b2961 Dominion (100%) #2003 from Chesterfield to Locks & Poe respectively Split Line #227 (Brambleton Beaumeade 230 kV) and b2962 Dominion (100%) terminate into existing Belmont substation

b2962.1	Replace the Beaumeade 230 kV breaker "274T2081" with 63kA breaker	Dominion (100%)
b2962.2	Replace the NIVO 230 kV breaker "2116T2130" with 63kA breaker	Dominion (100%)
b2963	Reconductor the Woodbridge to Occoquan 230 kV line segment of Line #2001 with 1047 MVA conductor and replace line terminal equipment at Possum Point, Woodbridge, and Occoquan	Dominion (100%)

	Turismission Emidicements 7 uni	1	Load-Ratio Share
			Allocation:
			AEC (1.61%) / AEP (14.10%)
			/ APS (5.79%) / ATSI
			(7.95%) / BGE (4.11%) /
			ComEd (13.24%) / Dayton
	Install 2-125 MVAR		(2.07%) / DEOK (3.22%) /
	STATCOMs at Rawlings		DL (1.73%) / DPL (2.48%) /
b2978	and 1-125 MVAR		Dominion (13.17%) / EKPC
	STATCOM at Clover 500		(2.13%) / JCPL (3.71%) / ME
	kV substations		(1.88%) / NEPTUNE*
			(0.42%) / PECO (5.34%) /
			PENELEC (1.86%) / PEPCO
			(3.98%) / PPL (4.76%) /
			PSEG (6.19%) / RE (0.26%)
			DFAX Allocation:
			Dominion (100%)
	Rebuild 115 kV Line #43		Dominion (100%)
	between Staunton and		
b2980	Harrisonburg (22.8 miles)		
02700	to current standards with a		
	summer emergency rating		
	of 261 MVA at 115 kV		
	Rebuild 115 kV Line #29		
	segment between		
b2981	Fredericksburg and Aquia		
	Harbor to current 230 kV		
	standards (operating at 115		
	kV) utilizing steel H-frame		Dominion (100%)
	structures with 2-636		
	ACSR to provide a normal		
	continuous summer rating		
	of 524 MVA at 115 kV		
	(1047 MVA at 230 kV)		

^{*}Neptune Regional Transmission System, LLC

Required Tr		ual Revenue Requirement	Responsible Customer(s)
b2989	Install a second 230/115 kV Transformer (224 MVA) approximately 1 mile north of Bremo and tie 230 kV Line #2028 (Bremo – Charlottesville) and 115 kV Line #91 (Bremo - Sherwood) together. A three breaker 230 kV ring bus will split Line #2028 into two lines and Line #91 will also be split into two lines with a new three breaker 115 kV ring bus. Install a temporary 230/115 kV transformer at Bremo substation for the interim until the new substation is complete		Dominion (100%)
b2990	Chesterfield to Basin 230 kV line – Replace 0.14 miles of 1109 ACAR with a conductor which will increase the line rating to approximately 706 MVA		Dominion (100%)
b2991	Chaparral to Locks 230 kV line – Replace breaker lead		Dominion (100%)
b2994	Acquire land and build a new switching station (Skippers) at the tap serving Brink DP with a 115 kV four breaker ring to split Line #130 and terminate the end points		Dominion (100%)
b3018	Rebuild Line #49 between New Road and Middleburg substations with single circuit steel structures to current 115 kV standards with a minimum summer emergency rating of 261 MVA		Dominion (100%)

required 110		uai Revenue Requirement	Responsible Customer(s)
b3019	Rebuild 500 kV Line #552 Bristers to Chancellor – 21.6 miles long		Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%)
			Dominion (89.20%) / PEPCO (10.80%)
b3019.1	Update the nameplate for Morrisville 500 kV breaker "H1T594" to be 50kA		Dominion (100%)
b3019.2	Update the nameplate for Morrisville 500 kV breaker "H1T545" to be 50kA		Dominion (100%)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s) **Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / Rebuild 500 kV Line #574 JCPL (3.71%) / ME (1.88%) / b3020 Ladysmith to Elmont – 26.2 NEPTUNE* (0.42%) / PECO miles long (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** APS (16.36%) / DEOK (11.61%) / Dominion (51.27%) / EKPC (5.30%) / PEPCO (15.46%)**Load-Ratio Share Allocation:** AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion Rebuild 500 kV Line #581 (13.17%) / EKPC (2.13%) / Ladysmith to Chancellor – b3021 JCPL (3.71%) / ME (1.88%) / 15.2 miles long NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%) **DFAX Allocation:** Dominion (100%) Reconductor Line #274 (Pleasant View – Ashburn – Beaumeade 230 kV) with a b3026 Dominion (100%) minimum rating of 1200 MVA. Also upgrade terminal equipment

Required 11	ansmission Ennancements – Annual	Revenue Requirement	Responsible Customer(s)
b3027.1	Add a 2nd 500/230 kV 840 MVA transformer at Dominion's Ladysmith substation		Dominion (100%)
b3027.2	Reconductor 230 kV Line #2089 between Ladysmith and Ladysmith CT substations to increase the line rating from 1047 MVA to 1225 MVA		Dominion (100%)
b3027.3	Replace the Ladysmith 500 kV breaker "H1T581" with 50kA breaker		Dominion (100%)
b3027.4	Update the nameplate for Ladysmith 500 kV breaker "H1T575" to be 50kA breaker		Dominion (100%)
b3027.5	Update the nameplate for Ladysmith 500 kV breaker "568T574" (will be renumbered as "H2T568") to be 50kA breaker		Dominion (100%)
b3055	Install spare 230/69 kV transformer at Davis substation		Dominion (100%)
b3056	Partial rebuild 230 kV Line #2113 Waller to Lightfoot		Dominion (100%)
b3057	Rebuild 230 kV Lines #2154 and #19 Waller to Skiffes Creek		Dominion (100%)
b3058	Partial rebuild of 230 kV Lines #265, #200 and #2051		Dominion (100%)
b3059	Rebuild 230 kV Line #2173 Loudoun to Elklick		Dominion (100%)

rtequired 11	distribution fundamental and fundamental f	recentiae recquirement	Responsible Customer(s)
b3060	Rebuild 4.6 mile Elklick – Bull Run 230 kV Line #295 and the portion (3.85 miles) of the Clifton – Walney 230 kV Line #265 which shares structures with Line #295		Dominion (100%)
b3088	Rebuild 4.75 mile section of Line #26 between Lexington and Rockbridge with a minimum summer emergency rating of 261 MVA		Dominion (100%)
b3089	Rebuild 230 kV Line #224 between Lanexa and Northern Neck utilizing double circuit structures to current 230 kV standards. Only one circuit is to be installed on the structures with this project with a minimum summer emergency rating of 1047 MVA		Dominion (100%)
b3090	Convert the overhead portion (approx. 1500 feet) of 230 kV Lines #248 & #2023 to underground and convert Glebe substation to gas insulated substation		Dominion (100%)

Attachment C

Schedule 12 Cost Allocation Table

Primary	Schedule 12	Sections Us	sed To Deter	mine Cost A	llocation
	TEAC		(b)(iii)		
	Cost	(b)(i)	Lower	(b)(vi)	(b)(xvi)
Upgrade	Estimate	Regional	Voltage	<\$5M	< 200 kV
Number	(\$M)	Facility	Facility	Upgrade	Driver
b2212	\$6.70				X
b2214	\$3.40			Х	
b2215	\$0.80			Х	
b2216	\$2.00			X	
b2223	\$3.00			X	
b2224	\$6.79				Х
b2258	\$2.40			X	
b2259	\$7.00				Х
b2262	\$1.15			Х	
b2263	\$2.86			Х	
b2265	\$1.15			Х	
b2276	\$101.00		Х		
b2276.1	\$0.00		X		
b2276.2	\$0.00		X		
b2310	\$0.16			X	
b2311	\$0.16			X	
b2312	\$0.07			X	
b2313	\$3.63			X	
b2314.1	\$6.64				X
b2314.2	\$0.00				X
b2314.3	\$0.00				X
b2314.4	\$0.00				X
b2315	\$0.05			Х	
b2316	\$0.05			Х	
b2317	\$3.94			Х	
b2318	\$3.09			Х	
b2319	\$0.10			Х	
b2320	\$0.28			Х	
b2321	\$0.41			Х	
b2322	\$0.00			Х	
b2323	\$1.73			Х	
b2324	\$0.00			Х	
b2325	\$0.14			X	
b2326	\$0.08			Х	
b2327	\$0.01			Х	
b2328	\$0.14			Х	
b2329	\$0.24			Х	
b2330	\$0.03			Х	

Primary	Schedule 12	Sections Us	sed To Deter	mine Cost A	llocation
	TEAC		(b)(iii)		
	Cost	(b)(i)	Lower	(b)(vi)	(b)(xvi)
Upgrade	Estimate	Regional	Voltage	<\$5M	< 200 kV
Number	(\$M)	Facility	Facility	Upgrade	Driver
b2331	\$0.08			X	
b2332	\$0.19			X	
b2333	\$0.11			X	
b2334	\$0.36			X	
b2335	\$0.30			X	
b2336	\$0.03			X	
b2337	\$0.06			X	
b2339	\$0.10			X	
b2340	\$0.00			X	
b2343	\$0.95			X	
b2344.1	\$30.00				X
b2344.2	\$0.00				Х
b2344.3	\$0.00				Χ
b2344.4	\$0.00				Χ
b2344.5	\$0.00				X
b2344.6	\$0.00				X
b2345.1	\$30.00				X
b2345.2	\$0.00				X
b2345.3	\$0.00				X
b2345.4	\$0.00				X
b2348	\$28.00				Х
b2351	\$0.95			Х	
b2353	\$0.32			Х	
b2406.1	\$25.50				Х
b2406.2	\$16.90				Х
b2406.3	\$2.50				Х
b2406.4	\$2.60				Х
b2406.5	\$3.90				Х
b2406.6	\$0.90				Х
b2406.7	\$2.00				Х
b2406.8	\$20.00				Х
b2461	\$105.00		Х		
b2461.1	\$0.00		Х		
b2461.2	\$0.00		Х		
b2461.3	\$0.00		Х		
b2495	\$0.10			Х	
b2496	\$3.00			Х	
b2497	\$0.60			X	

Primary	Schedule 12	Sections Us	sed To Deter	mine Cost A	llocation
	TEAC		(b)(iii)		
	Cost	(b)(i)	Lower	(b)(vi)	(b)(xvi)
Upgrade	Estimate	Regional	Voltage	<\$5M	< 200 kV
Number	(\$M)	Facility	Facility	Upgrade	Driver
b2498	\$2.00			Х	
b2500	\$0.10			X	
b2501	\$55.00				X
b2501.2	\$0.00				Х
b2501.3	\$0.00				X
b2501.4	\$0.00				Х
b2502.1	\$90.00		Х		
b2502.2	\$0.00		Х		
b2502.3	\$0.00		Х		
b2502.4	\$0.00		Х		
b2544	\$0.03			Х	
b2582	\$106.10	Х			
b2583	\$1.24			X	
b2584	\$1.67			X	
b2585	\$7.12				Χ
b2586	\$14.76				Χ
b2591	\$7.92				Χ
b2592	\$5.09				Χ
b2593	\$30.00				Χ
b2594	\$1.50			X	
b2595.1	\$31.86				Χ
b2595.2	\$0.00				Χ
b2596	\$2.03			X	
b2597	\$2.15			X	
b2598	\$1.69			Х	
b2599	\$0.20			Х	
b2600	\$14.50				Х
b2601	\$2.50			Х	
b2601.1	\$0.00			Х	
b2601.2	\$0.00			Х	
b2601.3	\$0.00			Х	
b2601.4	\$0.00			Х	
b2601.5	\$0.00			Х	
b2602.1	\$12.56				Х
b2602.2	\$0.00				Х
b2602.3	\$0.00				Х
b2602.4	\$0.00				Х
b2602.5	\$0.00				Х

Primary	Schedule 12	Sections Us	sed To Deter	mine Cost A	llocation
	TEAC		(b)(iii)		
	Cost	(b)(i)	Lower	(b)(vi)	(b)(xvi)
Upgrade	Estimate	Regional	Voltage	<\$5M	< 200 kV
Number	(\$M)	Facility	Facility	Upgrade	Driver
b2603	\$43.18				X
b2603.1	\$0.00				Х
b2603.2	\$0.00				Х
b2603.3	\$0.00				Х
b2604	\$31.65				Х
b2605	\$26.00				X
b2606	\$9.30				Х
b2607	\$0.00			Х	
b2608	\$0.20			Х	
b2609	\$0.00		Х		
b2609.1	\$1.00		X		
b2609.2	\$0.00		X		
b2609.3	\$2.10		X		
b2609.4	\$72.00		X		
b2609.5	\$0.60		X		
b2610	\$11.30				Χ
b2611	\$25.98				X
b2611.1	\$0.00				X
b2611.2	\$0.00				Χ
b2615	\$1.29			X	
b2622	\$51.00				X
b2623	\$6.80				X
b2624	\$24.70		Х		
b2625	\$15.30				X
b2626	\$24.00				Х
b2627	\$18.30				Х
b2628	\$32.10				Х
b2629	\$8.85				Х
b2647	\$12.50				Х
b2648	\$58.60				Х
b2649	\$27.00				Х
b2649.1	\$3.57				Х
b2649.2	\$8.21				Х
b2650	\$25.70				Х
b2651	\$38.70				Х
b2652	\$22.00				Х
b2653.1	\$35.00				Х
b2653.2	\$0.00				Х

Primary	Schedule 12	Sections Us	sed To Deter	mine Cost A	llocation
	TEAC Cost	(b)(i)	(b)(iii) Lower	(b)(vi)	(b)(xvi)
Upgrade	Estimate	Regional	Voltage	<\$5M	< 200 kV
Number	(\$M)	Facility	Facility	Upgrade	Driver
b2653.3	\$0.00				X
b2654.1	\$46.00				X
b2654.2	\$0.00				X
b2654.3	\$0.00				X
b2654.4	\$0.00				Х
b2655	\$0.04			Х	
b2656	\$1.65			X	
b2657	\$0.20			Х	
b2658	\$0.00			Х	
b2659	\$0.40			Х	
b2660	\$0.00			X	
b2661	\$0.34			Х	
b2662	\$0.01			X	
b2663	\$0.00			X	
b2664	\$0.08			X	
b2665	\$110.00	X			
b2686	\$103.70		Х		
b2686.1	\$0.00		Х		
b2686.2	\$0.00		х		
B2686.3	\$0.00		х		
b2686.11	\$0.00		Х		
b2686.12	\$0.00		Х		
b2686.13	\$0.00		Х		
b2686.14	\$0.00		Х		
b2708	\$4.07			Х	
b2709	\$2.43			Х	
b2710	\$0.08			Х	
b2711	\$0.40			Х	
b2714	\$6.01				Х
b2715	\$14.36				Х
b2717.1	\$2.50			Х	
b2717.2	\$0.00			Х	
b2717.3	\$0.00			Х	
b2717.4	\$0.00			Х	
b2719.1	\$8.20		Х		
b2719.2	\$0.00		Х		
b2719.3	\$0.00		Х		
b2730	\$0.72			Х	

Primary	Schedule 12	Sections Us	sed To Deter	mine Cost A	llocation
Ho ave de	TEAC Cost	(b)(i)	(b)(iii) Lower	(b)(vi)	(b)(xvi) < 200 kV
Upgrade Number	Estimate (\$M)	Regional Facility	Voltage Facility	<\$5M Upgrade	< 200 KV Driver
b2731	\$5.70	racility	X	Opgrade	Driver
b2731	\$2.50		^	X	
b2748	\$0.05			X	
b2750.1	\$28.10		X	^	
b2750.1	\$0.00		X		
b2755	\$43.00		X		
b2757	\$30.00		^		Х
b2758	\$58.16	X			٨
b2759	\$225.00	X			
b2733	\$0.00	^			Х
b2782	\$0.00				X
b2783	\$1.30			X	٨
b2784	\$0.00			^	Х
b2785	\$0.35				X
b2786	\$0.02				X
b2787	\$1.10			X	٨
b2788	\$0.35			X	
b2789	\$16.70			^	Х
b2790	\$0.43				X
b2790	\$20.39		X		٨
b2791.1	\$0.00		X		
b2791.1	\$0.00		X		
b2791.2	\$0.00		X		
b2791.3	\$0.00		X		
b2791.4	\$5.76		X		
b2792	\$0.08		^	X	
b2794	\$12.65		X	^	
b2795	\$0.48		^	X	
b2796	\$4.10			X	
b2797	\$20.60		X	Λ	
b2798	\$1.30		^		Х
b2798	\$53.00		X		Λ
b2799.1	\$0.00		X		
b2799.1	\$0.00		X		
b2799.3	\$0.00		X		
b2799.4	\$0.00		X		
b2799.4 b2799.5	\$0.00		X		
b2799.6	\$0.00		X		
DZ/33.0	0.00 ع		^		

Primary	Schedule 12	Sections Us	sed To Deter	mine Cost A	llocation
	TEAC		(b)(iii)		
	Cost	(b)(i)	Lower	(b)(vi)	(b)(xvi)
Upgrade	Estimate	Regional	Voltage	<\$5M	< 200 kV
Number	(\$M)	Facility	Facility	Upgrade	Driver
b2800	\$6.50				Х
b2801	\$22.00				Х
b2802	\$3.50				Х
b2803	\$4.00				Х
b2804	\$0.50			Х	
b2805	\$0.50			X	
b2806	\$0.50			X	
b2807	\$0.30			X	
b2808	\$0.30			X	
b2809	\$0.01			X	
b2810.1	\$44.00		X		
b2810.2	\$0.00		Х		
b2811	\$13.50		Х		
b2812	\$31.00		Х		
b2813	\$22.00				X
b2814	\$5.50				Х
b2815	\$12.80				Х
b2835	\$125.00		X		
b2835.1	\$0.00		X		
b2835.2	\$0.00		X		
b2835.3	\$0.00		X		
b2836	\$302.00		X		
b2836.1	\$0.00		X		
b2836.2	\$0.00		X		
b2836.3	\$0.00		Х		
b2836.4	\$0.00		Х		
b2837	\$312.00		Х		
b2837.1	\$0.00		Х		
b2837.2	\$0.00		Х		
b2837.3	\$0.00		Х		
b2837.4	\$0.00		Х		
b2837.5	\$0.00		Х		
b2837.6	\$0.00		Х		
b2837.7	\$0.00		Х		
b2837.8	\$0.00		Х		
b2837.9	\$0.00		Х		
b2837.10	\$0.00		Х		
b2837.11	\$0.00		Х		

Primary	Schedule 12	Sections Us	sed To Deter	mine Cost A	llocation
	TEAC Cost	(b)(i)	(b)(iii) Lower	(b)(vi)	(b)(xvi)
Upgrade Number	Estimate	Regional Facility	Voltage	<\$5M	< 200 kV Driver
b2838	(\$M) \$57.00	Facility	Facility X	Upgrade	Driver
b2870	\$275.00		^		Х
b2871	\$31.00		Х		^
b2876	\$40.00		^		X
b2877	\$8.00				X
b2880	\$12.50			V	Х
b2881	\$4.50			Х	V
b2882	\$2.90				X
b2882.1	\$0.00				X
b2882.2	\$0.00				X
b2883	\$12.20		V		Х
b2884	\$13.00		X		
b2885	\$13.00		X		
b2885.1	\$0.00		X		
b2885.2	\$0.00		X		
b2885.3	\$0.00		Х	.,	
b2886	\$3.20			Х	
b2889	\$30.00		X		
b2889.1	\$0.00		X		
b2889.2	\$0.00		X		
b2889.3	\$0.00		Х		
b2889.4	\$0.00		Х		
b2889.5	\$0.00		Х		
b2889.6	\$0.00		Х		
b2890	\$0.00				Х
b2890.1	\$34.00		Х		
b2890.2	\$0.54		Х		
b2890.3	\$0.51		Х		
b2890.4	\$1.20		Х		
b2891	\$4.80			Х	
b2892	\$27.10		Х		
b2893	\$1.03			Х	
b2899	\$22.00		Х		
b2900	\$11.50		Х		
b2902	\$4.72			Х	
b2903	\$0.00				Х
b2904	\$0.00				Х
b2905	\$0.09				Х

Primary	Schedule 12	Sections Us	sed To Deter	mine Cost A	llocation
	TEAC		(b)(iii)		
	Cost	(b)(i)	Lower	(b)(vi)	(b)(xvi)
Upgrade	Estimate	Regional	Voltage	<\$5M	< 200 kV
Number	(\$M)	Facility	Facility	Upgrade	Driver
b2906	\$0.00			X	
b2907	\$0.13			Х	
b2908	\$0.00			Х	
b2909	\$0.20				X
b2910	\$0.00			X	
b2911	\$0.00				X
b2912	\$0.15			X	
b2913	\$0.00			Х	
b2914	\$1.22			Х	
b2915	\$0.07			Х	
b2916	\$0.25				X
b2917	\$1.73				X
b2918	\$0.15				X
b2919	\$0.37				X
b2920	\$3.63				X
b2921	\$18.10		Х		
b2922	\$28.10		Х		
b2928	\$41.00	X			
b2929	\$6.00		X		
b2933	\$197.00		X		
b2933.1	\$0.00		X		
b2933.2	\$0.00		X		
b2933.31	\$0.00		X		
b2933.32	\$0.00		X		
b2934	\$21.00		Х		
b2935	\$98.00		Х		
b2935.1	\$0.00		Х		
b2935.2	\$0.00		Х		
b2935.3	\$0.00		Х		
b2936	\$0.00				Х
b2936.1	\$12.00		Х		
b2936.2	\$1.50				Х
b2958.1	\$2.19		Х		
b2958.2	\$5.06		Х		
b2960	\$28.90	X			
b2960.1	\$0.00	Х			
b2960.2	\$0.00	Х			
b2961	\$9.50		Х		

Primary	Schedule 12	Sections Us	sed To Deter	mine Cost A	llocation
	TEAC		(b)(iii)		
	Cost	(b)(i)	Lower	(b)(vi)	(b)(xvi)
Upgrade	Estimate	Regional	Voltage	<\$5M	< 200 kV
Number	(\$M)	Facility	Facility	Upgrade	Driver
b2980	\$37.50				X
b2981	\$12.50				Х
b2982	\$115.00		X		
b2982.1	\$0.00		Х		
b2982.2	\$0.00		Х		
b2983	\$98.25		Х		
b2983.1	\$0.00		Х		
b2983.2	\$0.00		X		
b2986	\$546.00		X		
b2986.11	\$0.00		X		
b2986.12	\$0.00		X		
b2986.21	\$0.00		X		
b2986.22	\$0.00		X		
b2986.23	\$0.00		X		
b2986.24	\$0.00		X		
b2993	\$2.80			Х	
b2994	\$8.00				X
b3003	\$87.00		Х		
b3003.1	\$0.00		X		
b3003.2	\$0.00		Х		
b3003.3	\$0.00		Х		
b3003.4	\$0.00		Х		
b3003.5	\$0.00		Х		
b3004	\$62.00		Х		
b3004.1	\$0.00		Х		
b3004.2	\$0.00		Х		
b3004.3	\$0.00		X		
b3004.4	\$0.00		Х		
b3018	\$19.60				Х
b3019	\$64.65	Х			
b3020	\$87.00	Х			
b3021	\$45.60	Х			
b3025	\$155.00		Х		
b3025.1	\$0.00		Х		
b3025.2	\$0.00	_	Х		
b3025.3	\$0.00		Х		
b3029	\$22.00		Х		
b3029.1	\$0.00		X		

Primary	Schedule 12	Sections Us	sed To Deter	mine Cost A	llocation
	TEAC		(b)(iii)		
	Cost	(b)(i)	Lower	(b)(vi)	(b)(xvi)
Upgrade	Estimate	Regional	Voltage	<\$5M	< 200 kV
Number	(\$M)	Facility	Facility	Upgrade	Driver
b3029.2	\$0.00		Х		
b3040	\$0.00		Х		
b3040.1	\$39.20		X		
b3040.2	\$23.60		X		
b3040.3	\$1.00		X		
b3040.4	\$3.50		Х		
b3040.5	\$0.00		Х		
b3040.6	\$0.80		Х		
b3044	\$0.35			X	
b3045	\$0.25			X	
b3046	\$0.75			X	
b3047	\$0.25			X	
b3049	\$4.00			X	
b3056	\$4.00			X	
b3057	\$10.00				Χ
b3058	\$11.50		X		
b3059	\$13.50		X		
b3060	\$15.50		X		
b3086.1	\$3.40		X		
b3086.2	\$1.80		X		
b3086.3	\$2.37		X		
b3086.4	\$1.70		X		
b3086.5	\$3.75		X		
b3087.1	\$3.40		X		
b3087.2	\$19.90		X		
b3087.3	\$0.50		Х		
b3088	\$8.00				Х
b3089	\$86.00		Х		
b3094	\$0.30			Х	
b3096	\$22.00		Х		
b3097	\$7.00				Х
b3098	\$20.00				Х
b3099	\$0.70			Х	
b3100	\$0.70			Х	
b3101	\$3.00			Х	
b3102	\$4.10			Х	
b3103.1	\$0.00		Х	_	
b3103.2	\$0.00		Х		

Primary	Primary Schedule 12 Sections Used To Determine Cost Allocation						
Upgrade Number	TEAC Cost Estimate (\$M)	(b)(i) Regional Facility	(b)(iii) Lower Voltage Facility	(b)(vi) <\$5M Upgrade	(b)(xvi) < 200 kV Driver		
b3103.3	\$0.00		Х				
b3103.4	\$0.00		Х				
b3103.5	\$0.00		X				
b3103.6	\$0.00		Х				
b3103.7	\$0.00		X				
b3103.8	\$0.00		X				
b3110.1	\$14.00		X				
b3110.2	\$0.54		Х				
b3111	\$0.50			X			
b3112	\$39.29		Х				
b3113	\$3.00				X		
b3114	\$25.00				X		
b3116	\$3.00			Χ			
b3118.1	\$9.30		X				
b3118.2	\$0.50		X				
b3118.3	\$0.50		X				
b3118.4	\$0.50		X				
b3118.5	\$1.10		X				
b3118.6	\$0.10		X				
b3118.7	\$3.30		X				
b3118.8	\$0.00		X				
b3118.9	\$1.50		X				
b3118.10	\$0.10		X				
b3208	\$85.00		X				
b3209	\$16.60				Х		

Attachment D

Chart Detailing History of Schedule 12 – Appendix A Tariff

Chart Detailing History of Schedule 12 – Appendix A Tariff

OATT Schedule 12 - Appendix A - (12) Public Service Gas and Electric Company

Version	Priority Code	Date Filed	Requested Effective Date	Docket No.
3.1.3	500	1/9/2017	5/25/2015	ER15-1387-003
3.1.4	600		5/25/2015	
3.2.0	550	2/24/2017	1/1/2016	ER17-1032-000
3.3.0	650		1/1/2016	
7.2.0	750	2/24/2017	2/16/2016	ER17-1032-000
7.2.2	800		2/16/2016	
7.3.0	650	2/24/2017	4/14/2016	ER17-1032-000
7.4.0	850		4/14/2016	
8.3.0	850	2/24/2017	4/25/2016	ER17-1032-000
8.4.0	900		4/25/2016	
9.1.0	600	2/24/2017	11/30/2016	ER17-1032-000
9.2.0	950		11/30/2016	
9.1.0	600	8/10/2018	1/1/2017	ER18-2197-000
9.3.0	1000		1/1/2017	
10.1.0	650	8/10/2018	2/15/2017	ER18-2197-000
10.2.0	1050		2/15/2017	
11.1.0	700	8/10/2018	4/6/2017	ER18-2197-000
11.2.0	1100		4/6/2017	
12.1.0	600	4/26/2017	5/1/2017	ER17-950-002
12.2.0	1150		5/1/2017	
13.1.0	750	8/10/2018	6/15/2017	ER18-2197-000
13.2.0	1200		6/15/2017	
14.1.0	500	4/28/2017	10/10/2017	ER17-1420-001
14.2.0	1250		10/10/2017	
15.0.0	500	8/25/2017	11/23/2017	ER17-2362-000
15.1.0	1300		11/23/2017	
15.0.3	700	1/19/2018	1/1/2018	ER18-680-000
15.1.4	1350		1/1/2018	
16.1.0	800	8/10/2018	2/15/2018	ER18-2197-000
16.2.0	1400		2/15/2018	
17.0.0	500	1/5/2018	4/5/2018	ER18-614-000
17.1.0	1450		4/5/2018	
18.0.0	500	3/16/2018	6/14/2018	ER18-1131-000
18.1.0	1500		6/14/2018	
19.0.0	500	5/11/2018	8/9/2018	ER18-1578-000
19.1.0	1550		8/9/2018	
20.0.0	500	8/30/2018	11/28/2018	ER18-2350-000
20.1.0	1600		11/28/2018	
20.0.1	500	12/31/2018	1/1/2019	ER19-745-000
20.1.2	1650		1/1/2019	
21.1.0	600	3/1/2019	1/31/2019	ER19-1173-000

21.2.0	1700	1/31/2019	
	_, 00	1,01,101,	

^{*}Sections included in this filing are indicated in bold italics

OATT Schedule 12 Appendix A - (20) Dominion

Version	Priority Code	Date Filed	Requested Effective Date	Docket No.
6.4.0	750	7/17/2018	2/16/2016	ER18-2028-000
6.5.0	825		2/16/2016	
7.4.0	800	7/17/2018	4/14/2016	ER18-2028-000
7.5.0	850		4/14/2016	
8.2.0	850	7/17/2018	6/16/2016	ER18-2028-000
8.3.0	900		6/16/2016	
9.2.0	900	7/17/2018	11/30/2016	ER18-2028-000
9.3.0	950		11/30/2016	
10.1.0	950	7/17/2018	1/1/2017	ER18-2028-000
10.2.0	1000		1/1/2017	
11.1.0	1000	7/17/2018	4/6/2017	ER18-2028-000
11.2.0	1050		4/6/2017	
12.2.0	1050	7/17/2018	5/1/2017	ER18-2028-000
12.3.0	1100		5/1/2017	
13.1.0	1100	7/17/2018	6/15/2017	ER18-2028-000
13.2.0	1150		6/15/2017	
14.1.0	1150	7/17/2018	11/23/2017	ER18-2028-000
14.2.0	1200		11/23/2017	
14.0.3	1200	7/17/2018	1/1/2018	ER18-2028-000
14.3.0	1250		1/1/2018	
15.1.0	1250	7/17/2018	2/15/2018	ER18-2028-000
15.2.0	1300		2/15/2018	
16.1.0	1300	7/17/2018	4/5/2018	ER18-2028-000
16.2.0	1350		4/5/2018	
17.1.0	1350	7/17/2018	6/14/2018	ER18-2028-001
17.2.0	1400		6/14/2018	
18.0.0	500	8/30/2018	11/28/2018	ER18-2350-000
18.1.0	1450		11/28/2018	
18.0.1	500	12/31/2018	1/1/2019	ER19-745-000
18.2.0	1500		1/1/2019	
19.1.0	600	3/1/2019	1/31/2019	ER19-1173-000
19.2.0	1550		1/31/2019	
20.0.0	500	1/4/2019	4/4/2019	ER19-772-000
20.1.0	1600		4/4/2019	
21.0.0	500	3/14/2019	6/12/2019	ER19-1301-000
21.1.0	1650		6/12/2019	