



PJM Interconnection, L.L.C.
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August 1, 2019

The 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. ER19-2517-000
Historical Clean-up Filing – Schedule 12 – Appendix A*

Dear Secretary Bose:

PJM Interconnection, L.L.C. (“PJM”) hereby submits for filing revisions to Schedule 12 – Appendix A of the PJM Open Access Transmission Tariff (“PJM Tariff”) (“Schedule 12–Appendix A”) to incorporate revisions previously accepted by the Commission, but were inadvertently omitted from Schedule 12–Appendix A. Without this clean-up filing Schedule 12–Appendix A will not correctly reflect such revisions from January 1, 2018 forward.

I. REVISIONS TO SCHEDULE 12–APPENDIX A (JERSEY CENTRAL POWER AND LIGHT COMPANY (“JCPL”) AND MID-ATLANTIC INTERSTATE TRANSMISSION, LLC FOR THE METROPOLITAN EDISON COMPANY (“METED”) TO HISTORICALLY REFLECT PROJECT NOS. b2809 AND b2814

On January 18, 2018¹, the Commission accepted PJM’s revisions to incorporate cost responsibility assignments for new baseline upgrades included in the Regional Transmission Expansion Plan (“RTEP”) approved by the PJM Board of Managers (“PJM Board”) on February 15, 2017 submitted on March 17, 2017². In the January 18 Order, the Commission ordered the March 17 Filing effective June 15, 2017. Specifically, PJM intends to reflect

¹ *PJM Interconnection, L.L.C.*, Order on Cost Allocation Report and Tariff Revisions and Denying Request for Rehearing, 162 FERC ¶ 61,046 (Jan. 18, 2018) (“January 18 Order”).

² *PJM Interconnection, L.L.C.*, Docket No. ER17-1236-000 (Mar. 17, 2017) (“March 17 Filing”).

baseline upgrades b2809 in Schedule 12-Appendix A (JCPL) and b2817 in Schedule 12-Appendix A (MetEd).

PJM submits this filing to ensure that as of January 1, 2018 forward, the PJM Tariff, Schedules 12–Appendix A (JCPL) and (MetEd), reflect these two baseline upgrades accepted in the January 18 Order. Please note that the clean versions of the tariff records being submitted do not make any substantive modifications to the PJM Tariff.

II. PROPOSED MINISTERIAL REVISIONS

With the foregoing in mind, PJM submits this ministerial filing to ensure that Schedule 12–Appendix A (JCPL) and (MetEd) are historically correct and reflect the appropriate Commission-accepted baseline upgrades as noted above consistent with prior Commission orders.

III. WAIVER AND EFFECTIVE DATE

PJM requests the effective dates remain consistent with the effective dates requested and accepted by the Commission in the respective dockets filed subsequent to the March 17 Filing. To permit such effective dates, PJM requests a waiver of the 60-days’ notice requirement in section 35.3(a)(1) of the Commission’s regulations.³ Good cause exists for such waiver because the amendments filed herein incorporate language previously accepted by the Commission, as well as ministerial changes, with the effective date previously established by the Commission, thereby ensuring that the current effective versions of the PJM Tariff found in the Commission’s files and eTariff system, and posted by PJM, conform to and fully reflect the Commission’s prior orders.

³ 18 C.F.R. § 35.3(a)(1) (2018).

IV. DOCUMENTS ENCLOSED

1. Transmittal Letter
2. Attachment A – Clean Versions- Schedule 12 – Appendix A (JCPL) and (MetEd); and
3. Attachment B – Redline changes accepted by the Commission in Docket No. ER17-1236-000.⁴

V. COMMUNICATIONS

The following individuals are designated for receipt of any communications regarding this filing:

Craig Glazer
Vice President – Federal Government Policy
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VI. SERVICE

PJM has served a copy of this filing on all PJM Members and on all state utility regulatory commissions in the PJM Region by posting this filing electronically. In accordance with the Commission's regulations,⁵ 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

⁴ *PJM Interconnection, L.L.C.*, Letter Order, Docket No. ER17-1236-000 (June 1, 2017).


⁵ 18 C.F.R. §§ 35.2(e) and 385.2010(f)(3) (2018).

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commissions in the PJM Region⁶ 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 24 hours of the filing. Also, a copy of this filing will be available on the FERC'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.

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Respectfully submitted,

By: 
Pauline Foley
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On behalf of PJM Interconnection, L.L.C.

⁶ PJM already maintains, updates and regularly uses e-mail lists for all PJM Members and affected state commissions.

ATTACHMENT A

Schedules 12 – Appendix A (JCPL) and (MetEd)

(Clean Format)

SCHEDULE 12 – APPENDIX A

(4) Jersey Central Power & Light Company

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2234	260 MVAR reactor at West Wharton 230 kV	JCPL (100%)
b2270	Advance Raritan River - Replace G1047E breaker at the 230kV Substation	JCPL (100%)
b2271	Advance Raritan River - Replace G1047F breaker at the 230kV Substation	JCPL (100%)
b2272	Advance Raritan River - Replace T1034E breaker at the 230kV Substation	JCPL (100%)
b2273	Advance Raritan River - Replace T1034F breaker at the 230kV Substation	JCPL (100%)
b2274	Advance Raritan River - Replace I1023E breaker at the 230kV Substation	JCPL (100%)
b2275	Advance Raritan River - Replace I1023F breaker at the 230kV Substation	JCPL (100%)
b2289	Freneau Substation - upgrade 2.5 inch pipe to bundled 1590 ACSR conductor at the K1025 230 kV Line Terminal	JCPL (100%)
b2292	Replace the Whippany 230 kV breaker B1 (CAP) with 63kA breaker	JCPL (100%)
b2357	Replace the East Windsor 230 kV breaker 'E1' with 63kA breaker	JCPL (100%)

Jersey Central Power & Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2495	Replace transformer leads on the Glen Gardner 230/34.5 kV #1 transformer		JCPL (100%)
b2496	Replace Franklin 115/34.5 kV transformer #2 with 90 MVA transformer		JCPL (100%)
b2497	Reconductor 0.9 miles of the Captive Plastics to Morris Park 34.5 kV circuit (397ACSR) with 556 ACSR		JCPL (100%)
b2498	Extend 5.8 miles of 34.5 kV circuit from North Branch substation to Lebanon substation with 397 ACSR and install 34.5 kV breaker at Lebanon substation		JCPL (100%)
b2500	Upgrade terminal equipment at Monroe on the Englishtown to Monroe (H34) 34.5 kV circuit		JCPL (100%)
b2570	Upgrade limiting terminal facilities at Feneau, Parlin, and Williams substations		JCPL (100%)
b2571	Upgrade the limiting terminal facilities at both Jackson and North Hanover		JCPL (100%)
b2586	Upgrade the V74 34.5 kV transmission line between Allenhurst and Elberon Substations		JCPL (100%)

Jersey Central Power & Light Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2633.6	Implement high speed relaying utilizing OPGW on Deans – East Windsor 500 kV	<p>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%)</p> <p>DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p>
b2633.6.1	Implement high speed relaying utilizing OPGW on East Windsor - New Freedom 500 kV	<p>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%)</p> <p>DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p>

Jersey Central Power & Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2676	Install one (1) 72 MVAR fast switched capacitor at the Englishtown 230 kV substation		JCPL (100%)
b2708	Replace the Oceanview 230/34.5 kV transformer #1		JCPL (100%)
b2709	Replace the Deep Run 230/34.5 kV transformer #1		JCPL (100%)
b2754.2	Install 5 miles of optical ground wire (OPGW) between Gilbert and Springfield 230 kV substations		JCPL (100%)
b2754.3	Install 7 miles of all-dielectric self-supporting (ADSS) fiber optic cable between Morris Park and Northwood 230 kV substations		JCPL (100%)
b2754.6	Upgrade relaying at Morris Park 230 kV		JCPL (100%)
b2754.7	Upgrade relaying at Gilbert 230 kV		JCPL (100%)
b2809	Install a bypass switch at Mount Pleasant 34.5 kV substation to allow the Mount Pleasant substation load to be removed from the N14 line and transfer to O769 line		JCPL (100%)

SCHEDULE 12 – APPENDIX A

(4) Jersey Central Power & Light Company

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2234	260 MVAR reactor at West Wharton 230 kV	JCPL (100%)
b2270	Advance Raritan River - Replace G1047E breaker at the 230kV Substation	JCPL (100%)
b2271	Advance Raritan River - Replace G1047F breaker at the 230kV Substation	JCPL (100%)
b2272	Advance Raritan River - Replace T1034E breaker at the 230kV Substation	JCPL (100%)
b2273	Advance Raritan River - Replace T1034F breaker at the 230kV Substation	JCPL (100%)
b2274	Advance Raritan River - Replace I1023E breaker at the 230kV Substation	JCPL (100%)
b2275	Advance Raritan River - Replace I1023F breaker at the 230kV Substation	JCPL (100%)
b2289	Freneau Substation - upgrade 2.5 inch pipe to bundled 1590 ACSR conductor at the K1025 230 kV Line Terminal	JCPL (100%)
b2292	Replace the Whippany 230 kV breaker B1 (CAP) with 63kA breaker	JCPL (100%)
b2357	Replace the East Windsor 230 kV breaker 'E1' with 63kA breaker	JCPL (100%)

Jersey Central Power & Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2495	Replace transformer leads on the Glen Gardner 230/34.5 kV #1 transformer		JCPL (100%)
b2496	Replace Franklin 115/34.5 kV transformer #2 with 90 MVA transformer		JCPL (100%)
b2497	Reconductor 0.9 miles of the Captive Plastics to Morris Park 34.5 kV circuit (397ACSR) with 556 ACSR		JCPL (100%)
b2498	Extend 5.8 miles of 34.5 kV circuit from North Branch substation to Lebanon substation with 397 ACSR and install 34.5 kV breaker at Lebanon substation		JCPL (100%)
b2500	Upgrade terminal equipment at Monroe on the Englishtown to Monroe (H34) 34.5 kV circuit		JCPL (100%)
b2570	Upgrade limiting terminal facilities at Feneau, Parlin, and Williams substations		JCPL (100%)
b2571	Upgrade the limiting terminal facilities at both Jackson and North Hanover		JCPL (100%)
b2586	Upgrade the V74 34.5 kV transmission line between Allenhurst and Elberon Substations		JCPL (100%)

Jersey Central Power & Light Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
<p>b2633.6</p> <p>Implement high speed relaying utilizing OPGW on Deans – East Windsor 500 kV</p>		<p>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%)</p>
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Jersey Central Power & Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2676	Install one (1) 72 MVAR fast switched capacitor at the Englishtown 230 kV substation	JCPL (100%)
b2708	Replace the Oceanview 230/34.5 kV transformer #1	JCPL (100%)
b2709	Replace the Deep Run 230/34.5 kV transformer #1	JCPL (100%)
b2754.2	Install 5 miles of optical ground wire (OPGW) between Gilbert and Springfield 230 kV substations	JCPL (100%)
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b2754.6	Upgrade relaying at Morris Park 230 kV	JCPL (100%)
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b2809	Install a bypass switch at Mount Pleasant 34.5 kV substation to allow the Mount Pleasant substation load to be removed from the N14 line and transfer to O769 line	JCPL (100%)

SCHEDULE 12 – APPENDIX A

(4) Jersey Central Power & Light Company

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b2292	Replace the Whippany 230 kV breaker B1 (CAP) with 63kA breaker	JCPL (100%)
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Jersey Central Power & Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2495	Replace transformer leads on the Glen Gardner 230/34.5 kV #1 transformer		JCPL (100%)
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Jersey Central Power & Light Company (cont.)

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Jersey Central Power & Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

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b2754.6	Upgrade relaying at Morris Park 230 kV		JCPL (100%)
b2754.7	Upgrade relaying at Gilbert 230 kV		JCPL (100%)
b2809	Install a bypass switch at Mount Pleasant 34.5 kV substation to allow the Mount Pleasant substation load to be removed from the N14 line and transfer to O769 line		JCPL (100%)
b3023	Replace West Wharton 115 kV breakers 'G943A' and 'G943B' with 40kA breakers		JCPL (100%)

SCHEDULE 12 – APPENDIX A

(4) Jersey Central Power & Light Company

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Jersey Central Power & Light Company (cont.)

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b2570	Upgrade limiting terminal facilities at Feneau, Parlin, and Williams substations		JCPL (100%)
b2571	Upgrade the limiting terminal facilities at both Jackson and North Hanover		JCPL (100%)
b2586	Upgrade the V74 34.5 kV transmission line between Allenhurst and Elberon Substations		JCPL (100%)

Jersey Central Power & Light Company (cont.)

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b2633.6.1	Implement high speed relaying utilizing OPGW on East Windsor - New Freedom 500 kV	<p>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%)</p> <p>DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p>

Jersey Central Power & Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

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b2754.2	Install 5 miles of optical ground wire (OPGW) between Gilbert and Springfield 230 kV substations		JCPL (100%)
b2754.3	Install 7 miles of all-dielectric self-supporting (ADSS) fiber optic cable between Morris Park and Northwood 230 kV substations		JCPL (100%)
b2754.6	Upgrade relaying at Morris Park 230 kV		JCPL (100%)
b2754.7	Upgrade relaying at Gilbert 230 kV		JCPL (100%)
b2809	Install a bypass switch at Mount Pleasant 34.5 kV substation to allow the Mount Pleasant substation load to be removed from the N14 line and transfer to O769 line		JCPL (100%)
b3023	Replace West Wharton 115 kV breakers 'G943A' and 'G943B' with 40kA breakers		JCPL (100%)
b3042	Replace substation conductor at Raritan River 230 kV substation on the Kilmer line terminal		JCPL (100%)

SCHEDULE 12 – APPENDIX A

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2006.1.1	Loop the 2026 (TMI – Hosensack 500 kV) line in to the Lauschtown	<p>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%)</p> <p>DFAX Allocation: PPL (100%)</p>
b2006.2.1	Upgrade relay at South Reading on the 1072 230 V line	ME (100%)
b2006.4	Replace the South Reading 69 kV ‘81342’ breaker with 40kA breaker	ME (100%)
b2006.5	Replace the South Reading 69 kV ‘82842’ breaker with 40kA breaker	ME (100%)
b2452	Install 2nd Hunterstown 230/115 kV transformer	APS (8.30%) / BGE (14.70%) / DEOK (0.48%) / Dominion (36.92%) / ME (23.85%) / PEPCO (15.75%)

**Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone
(cont.)**

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2452.1	Reconductor Hunterstown - Oxford 115 kV line	APS (8.30%) / BGE (14.70%) / DEOK (0.48%) / Dominion (36.92%) / ME (23.85%) / PEPCO (15.75%)
b2452.3	Replace the Hunterstown 115 kV breaker '96192' with 40 kA	ME (100%)
b2588	Install a 36.6 MVAR 115 kV capacitor at North Bangor substation	ME (100%)
b2637	Convert Middletown Junction 230 kV substation to nine bay double breaker configuration.	ME (100%)
b2644	Install a 28.8 MVAR 115 kV capacitor at the Mountain substation	ME (100%)
b2688.1	Lincoln Substation: Upgrade the bus conductor and replace CTs.	AEP (12.91%) / APS (19.04%) / ATSI (1.24%) / ComEd (0.35%) / Dayton (1.45%) / DEOK (2.30%) / DL (1.11%) / Dominion (44.85%) / EKPC (0.78%) / PEPCO (15.85%) / RECO (0.12%)
b2688.2	Germantown Substation: Replace 138/115 kV transformer with a 135/180/224 MVA bank. Replace Lincoln 115 kV breaker, install new 138 kV breaker, upgrade bus conductor and adjust/replace CTs.	AEP (12.91%) / APS (19.04%) / ATSI (1.24%) / ComEd (0.35%) / Dayton (1.45%) / DEOK (2.30%) / DL (1.11%) / Dominion (44.85%) / EKPC (0.78%) / PEPCO (15.85%) / RECO (0.12%)

**Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone
(cont.)**

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2743.4	Upgrade terminal equipment at Hunterstown 500 kV on the Conemaugh – Hunterstown 500 kV circuit	AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)
b2752.4	Upgrade terminal equipment and required relay communication at TMI 500 kV: on the Beach Bottom – TMI 500 kV circuit	AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)
b2749	Replace relay at West Boyertown 69 kV station on the West Boyertown – North Boyertown 69 kV circuit	ME (100%)
b2765	Upgrade bus conductor at Gardners 115 kv substation; Upgrade bus conductor and adjust CT ratios at Carlisle Pike 115 kV	ME (100%)
b2814	Install a 3rd 230/69 kV 224 MVA Transformer at Lyons and install new terminal equipment for existing Lyons - East Penn(865) 69 kV Line	ME (100%)

SCHEDULE 12 – APPENDIX A

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2006.1.1	Loop the 2026 (TMI – Hosensack 500 kV) line in to the Lauschtown	<p>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%)</p> <p>DFAX Allocation: PPL (100%)</p>
b2006.2.1	Upgrade relay at South Reading on the 1072 230 V line	ME (100%)
b2006.4	Replace the South Reading 69 kV ‘81342’ breaker with 40kA breaker	ME (100%)
b2006.5	Replace the South Reading 69 kV ‘82842’ breaker with 40kA breaker	ME (100%)
b2452	Install 2nd Hunterstown 230/115 kV transformer	APS (8.30%) / BGE (14.70%) / DEOK (0.48%) / Dominion (36.92%) / ME (23.85%) / PEPCO (15.75%)

**Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone
(cont.)**

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2452.1	Reconductor Hunterstown - Oxford 115 kV line	APS (8.30%) / BGE (14.70%) / DEOK (0.48%) / Dominion (36.92%) / ME (23.85%) / PEPCO (15.75%)
b2452.3	Replace the Hunterstown 115 kV breaker '96192' with 40 kA	ME (100%)
b2588	Install a 36.6 MVAR 115 kV capacitor at North Bangor substation	ME (100%)
b2637	Convert Middletown Junction 230 kV substation to nine bay double breaker configuration.	ME (100%)
b2644	Install a 28.8 MVAR 115 kV capacitor at the Mountain substation	ME (100%)
b2688.1	Lincoln Substation: Upgrade the bus conductor and replace CTs.	AEP (12.91%) / APS (19.04%) / ATSI (1.24%) / ComEd (0.35%) / Dayton (1.45%) / DEOK (2.30%) / DL (1.11%) / Dominion (44.85%) / EKPC (0.78%) / PEPCO (15.85%) / RECO (0.12%)
b2688.2	Germantown Substation: Replace 138/115 kV transformer with a 135/180/224 MVA bank. Replace Lincoln 115 kV breaker, install new 138 kV breaker, upgrade bus conductor and adjust/replace CTs.	AEP (12.91%) / APS (19.04%) / ATSI (1.24%) / ComEd (0.35%) / Dayton (1.45%) / DEOK (2.30%) / DL (1.11%) / Dominion (44.85%) / EKPC (0.78%) / PEPCO (15.85%) / RECO (0.12%)

**Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone
 (cont.)**

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2743.4	Upgrade terminal equipment at Hunterstown 500 kV on the Conemaugh – Hunterstown 500 kV circuit	AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)
b2752.4	Upgrade terminal equipment and required relay communication at TMI 500 kV: on the Beach Bottom – TMI 500 kV circuit	AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)
b2749	Replace relay at West Boyertown 69 kV station on the West Boyertown – North Boyertown 69 kV circuit	ME (100%)
b2765	Upgrade bus conductor at Gardners 115 kv substation; Upgrade bus conductor and adjust CT ratios at Carlisle Pike 115 kV	ME (100%)
b2814	Install a 3rd 230/69 kV 224 MVA Transformer at Lyons and install new terminal equipment for existing Lyons - East Penn(865) 69 kV Line	ME (100%)
b2950	Upgrade limiting 115 kV switches on the 115 kV side of the 230/115 kV Northwood substation and adjust setting on limiting ZR relay	ME (100%)

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(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2006.1.1	Loop the 2026 (TMI – Hosensack 500 kV) line in to the Lauschtown	<p>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%)</p> <p>DFAX Allocation: PPL (100%)</p>
b2006.2.1	Upgrade relay at South Reading on the 1072 230 V line	ME (100%)
b2006.4	Replace the South Reading 69 kV ‘81342’ breaker with 40kA breaker	ME (100%)
b2006.5	Replace the South Reading 69 kV ‘82842’ breaker with 40kA breaker	ME (100%)
b2452	Install 2nd Hunterstown 230/115 kV transformer	APS (8.30%) / BGE (14.70%) / DEOK (0.48%) / Dominion (36.92%) / ME (23.85%) / PEPCO (15.75%)

Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2452.1	Reconductor Hunterstown - Oxford 115 kV line	APS (8.30%) / BGE (14.70%) / DEOK (0.48%) / Dominion (36.92%) / ME (23.85%) / PEPCO (15.75%)
b2452.3	Replace the Hunterstown 115 kV breaker '96192' with 40 kA	ME (100%)
b2588	Install a 36.6 MVAR 115 kV capacitor at North Bangor substation	ME (100%)
b2637	Convert Middletown Junction 230 kV substation to nine bay double breaker configuration.	ME (100%)
b2644	Install a 28.8 MVAR 115 kV capacitor at the Mountain substation	ME (100%)
b2688.1	Lincoln Substation: Upgrade the bus conductor and replace CTs.	AEP (12.91%) / APS (19.04%) / ATSI (1.24%) / ComEd (0.35%) / Dayton (1.45%) / DEOK (2.30%) / DL (1.11%) / Dominion (44.85%) / EKPC (0.78%) / PEPCO (15.85%) / RECO (0.12%)
b2688.2	Germantown Substation: Replace 138/115 kV transformer with a 135/180/224 MVA bank. Replace Lincoln 115 kV breaker, install new 138 kV breaker, upgrade bus conductor and adjust/replace CTs.	AEP (12.91%) / APS (19.04%) / ATSI (1.24%) / ComEd (0.35%) / Dayton (1.45%) / DEOK (2.30%) / DL (1.11%) / Dominion (44.85%) / EKPC (0.78%) / PEPCO (15.85%) / RECO (0.12%)

Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2743.4	Upgrade terminal equipment at Hunterstown 500 kV on the Conemaugh – Hunterstown 500 kV circuit	AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)
b2752.4	Upgrade terminal equipment and required relay communication at TMI 500 kV: on the Beach Bottom – TMI 500 kV circuit	AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)
b2749	Replace relay at West Boyertown 69 kV station on the West Boyertown – North Boyertown 69 kV circuit	ME (100%)
b2765	Upgrade bus conductor at Gardners 115 kv substation; Upgrade bus conductor and adjust CT ratios at Carlisle Pike 115 kV	ME (100%)
b2814	Install a 3rd 230/69 kV 224 MVA Transformer at Lyons and install new terminal equipment for existing Lyons - East Penn(865) 69 kV Line	ME (100%)
b2950	Upgrade limiting 115 kV switches on the 115 kV side of the 230/115 kV Northwood substation and adjust setting on limiting ZR relay	ME (100%)

ATTACHMENT B

Redline Changes Accepted by the Commission in ER17-1236-000

SCHEDULE 12 – APPENDIX A

(4) Jersey Central Power & Light Company

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2234	260 MVAR reactor at West Wharton 230 kV	JCPL (100%)
b2270	Advance Raritan River - Replace G1047E breaker at the 230kV Substation	JCPL (100%)
b2271	Advance Raritan River - Replace G1047F breaker at the 230kV Substation	JCPL (100%)
b2272	Advance Raritan River - Replace T1034E breaker at the 230kV Substation	JCPL (100%)
b2273	Advance Raritan River - Replace T1034F breaker at the 230kV Substation	JCPL (100%)
b2274	Advance Raritan River - Replace I1023E breaker at the 230kV Substation	JCPL (100%)
b2275	Advance Raritan River - Replace I1023F breaker at the 230kV Substation	JCPL (100%)
b2289	Freneau Substation - upgrade 2.5 inch pipe to bundled 1590 ACSR conductor at the K1025 230 kV Line Terminal	JCPL (100%)
b2292	Replace the Whippany 230 kV breaker B1 (CAP) with 63kA breaker	JCPL (100%)
b2357	Replace the East Windsor 230 kV breaker 'E1' with 63kA breaker	JCPL (100%)

Jersey Central Power & Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2495	Replace transformer leads on the Glen Gardner 230/34.5 kV #1 transformer		JCPL (100%)
b2496	Replace Franklin 115/34.5 kV transformer #2 with 90 MVA transformer		JCPL (100%)
b2497	Reconductor 0.9 miles of the Captive Plastics to Morris Park 34.5 kV circuit (397ACSR) with 556 ACSR		JCPL (100%)
b2498	Extend 5.8 miles of 34.5 kV circuit from North Branch substation to Lebanon substation with 397 ACSR and install 34.5 kV breaker at Lebanon substation		JCPL (100%)
b2500	Upgrade terminal equipment at Monroe on the Englishtown to Monroe (H34) 34.5 kV circuit		JCPL (100%)
b2570	Upgrade limiting terminal facilities at Feneau, Parlin, and Williams substations		JCPL (100%)
b2571	Upgrade the limiting terminal facilities at both Jackson and North Hanover		JCPL (100%)
b2586	Upgrade the V74 34.5 kV transmission line between Allenhurst and Elberon Substations		JCPL (100%)

Jersey Central Power & Light Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2633.6	Implement high speed relaying utilizing OPGW on Deans – East Windsor 500 kV	<p>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%)</p> <p>DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p>
b2633.6.1	Implement high speed relaying utilizing OPGW on East Windsor - New Freedom 500 kV	<p>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%)</p> <p>DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p>

Jersey Central Power & Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2676	Install one (1) 72 MVAR fast switched capacitor at the Englishtown 230 kV substation		JCPL (100%)
b2708	Replace the Oceanview 230/34.5 kV transformer #1		JCPL (100%)
b2709	Replace the Deep Run 230/34.5 kV transformer #1		JCPL (100%)
b2754.2	<i>Install 5 miles of optical ground wire (OPGW) between Gilbert and Springfield 230 kV substations</i>		<i>JCPL (100%)</i>
b2754.3	<i>Install 7 miles of all-dielectric self-supporting (ADSS) fiber optic cable between Morris Park and Northwood 230 kV substations</i>		<i>JCPL (100%)</i>
b2754.6	<i>Upgrade relaying at Morris Park 230 kV</i>		<i>JCPL (100%)</i>
b2754.7	<i>Upgrade relaying at Gilbert 230 kV</i>		<i>JCPL (100%)</i>
<u>b2809</u>	<u>Install a bypass switch at Mount Pleasant 34.5 kV substation to allow the Mount Pleasant substation load to be removed from the N14 line and transfer to O769 line</u>		<u>JCPL (100%)</u>

SCHEDULE 12 – APPENDIX A

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2006.1.1	Loop the 2026 (TMI – Hosensack 500 kV) line in to the Lauschtown	<p>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%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: BGE (17.43%) / ME (20.22%) / PPL (62.35%)</p>
b2006.2.1	Upgrade relay at South Reading on the 1072 230 V line	ME (100%)
b2006.4	Replace the South Reading 69 kV ‘81342’ breaker with 40kA breaker	ME (100%)
b2006.5	Replace the South Reading 69 kV ‘82842’ breaker with 40kA breaker	ME (100%)
b2452	Install 2nd Hunterstown 230/115 kV transformer	APS (8.30%) / BGE (14.70%) / DEOK (0.48%) / Dominion (36.92%) / ME (23.85%) / PEPSCO (15.75%)

**Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone
(cont.)**

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2452.1	Reconductor Hunterstown - Oxford 115 kV line	APS (8.30%) / BGE (14.70%) / DEOK (0.48%) / Dominion (36.92%) / ME (23.85%) / PEPCO (15.75%)
b2452.3	Replace the Hunterstown 115 kV breaker '96192' with 40 kA	ME (100%)
b2588	Install a 36.6 MVAR 115 kV capacitor at North Bangor substation	ME (100%)
b2637	Convert Middletown Junction 230 kV substation to nine bay double breaker configuration.	ME (100%)
b2644	Install a 28.8 MVAR 115 kV capacitor at the Mountain substation	ME (100%)
b2688.1	Lincoln Substation: Upgrade the bus conductor and replace CTs.	AEP (12.91%) / APS (19.04%) / ATSI (1.24%) / ComEd (0.35%) / Dayton (1.45%) / DEOK (2.30%) / DL (1.11%) / Dominion (44.85%) / EKPC (0.78%) / PEPCO (15.85%) / RECO (0.12%)
b2688.2	Germantown Substation: Replace 138/115 kV transformer with a 135/180/224 MVA bank. Replace Lincoln 115 kV breaker, install new 138 kV breaker, upgrade bus conductor and adjust/replace CTs.	AEP (12.91%) / APS (19.04%) / ATSI (1.24%) / ComEd (0.35%) / Dayton (1.45%) / DEOK (2.30%) / DL (1.11%) / Dominion (44.85%) / EKPC (0.78%) / PEPCO (15.85%) / RECO (0.12%)

Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2743.4	Upgrade terminal equipment at Hunterstown 500 kV on the Conemaugh – Hunterstown 500 kV circuit	AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)
b2752.4	Upgrade terminal equipment and required relay communication at TMI 500 kV: on the Beach Bottom – TMI 500 kV circuit	AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)
b2749	<i>Replace relay at West Boyertown 69 kV station on the West Boyertown – North Boyertown 69 kV circuit</i>	<i>ME (100%)</i>
b2765	<i>Upgrade bus conductor at Gardners 115 kv substation; Upgrade bus conductor and adjust CT ratios at Carlisle Pike 115 kV</i>	<i>ME (100%)</i>
<u>b2814</u>	<u>Install a 3rd 230/69 kV 224 MVA Transformer at Lyons and install new terminal equipment for existing Lyons - East Penn(865) 69 kV Line</u>	<u>ME (100%)</u>