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May 3, 2024

Honorable Debbie-Anne A. Reese  
Acting Secretary  
Federal Energy Regulatory Commission  
888 First Street, N.E., Room 1A  
Washington, D.C. 20426-0001

*Re: PJM Interconnection, L.L.C., Docket No. ER24-1942-000  
Clean-Up Filing for Tariff, Schedule 12-Appendix, Schedule 12-Appendix A, and  
Schedule 12-Appendix C*

Dear Acting Secretary Reese:

PJM Interconnection, L.L.C. (“PJM”) hereby submits this ministerial clean-up filing<sup>1</sup> to ensure that the PJM Open Access Transmission Tariff (“Tariff”),<sup>2</sup> Schedule 12-Appendix, Schedule 12-Appendix A, and Schedule 12-Appendix C (collectively, the “Schedule 12 Appendices”) correctly reflect previously-approved cost responsibility assignments for baseline transmission facilities included in the PJM Regional Transmission Expansion Plan (“RTEP”). PJM requests that these revisions be made effective as described below.

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<sup>1</sup> PJM submits this filing pursuant to section 205 of the Federal Power Act (“FPA”), 16 U.S.C. § 824d, and Part 35 of the Commission’s (“FERC” or “Commission”) regulations, 18 C.F.R. Part 35, as well as the Commission’s directive in its February 27, 2024 order in Docket No. ER24-786, *PJM Interconnection, L.L.C.*, 186 FERC ¶ 61,148, at P 29 (2024) (“February 2024 Order”).

<sup>2</sup> All capitalized terms that are not otherwise defined herein have the meaning as defined in the Tariff, Amended and Restated Operating Agreement of PJM Interconnection, L.L.C., (“Operating Agreement”), and Reliability Assurance Agreement (“RAA”) among Load Serving Entities in the PJM Region. The Tariff, Operating Agreement and RAA are collectively referred to in this filing as the “Governing Documents.”

## I. BACKGROUND

### *A. Routine RTEP-Related Filings Necessitating this Clean-Up Filing*

Each year, PJM submits several filings to revise the Schedule 12 Appendices, which set forth the cost responsibility assignments for all baseline transmission facilities that have been approved for inclusion in the PJM RTEP.<sup>3</sup>

First, PJM is required to annually update the cost responsibility assignments for Regional Facilities,<sup>4</sup> Necessary Lower Voltage Facilities,<sup>5</sup> Lower Voltage Facilities,<sup>6</sup> and State Agreement Public Policy Projects,<sup>7</sup> beginning with the calendar year in which the enhancement or expansion is scheduled to enter service and thereafter annually at the beginning of each calendar year (“Annual Update Filings”).<sup>8</sup> Typically, when PJM submits Annual Update Filings, it proposes revisions to nearly every section of each of the Schedule 12 Appendices. Consistent with the requirements of the Tariff, PJM requests that the annually-updated cost responsibility assignments

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<sup>3</sup> Cost responsibility assignments for all projects included in the RTEP prior to February 1, 2013, are located in Schedule 12-Appendix; cost responsibility assignments for all projects in the RTEP after February 1, 2013, are included in Tariff, Schedule 12-Appendix A; and cost responsibility assignments for all State Agreement Public Policy Projects constructed in accordance with Amended and Restated Operating Agreement of PJM Interconnection, L.L.C. (“Operating Agreement”), Schedule 6, section 1.5.9, are included in Tariff, Schedule 12-Appendix C.

<sup>4</sup> Under Tariff, Schedule 12-Appendix, “Regional Facilities” include new transmission enhancements and expansions that will operate at or above 500 kilovolts (“kV”). Under Tariff, Schedule 12-Appendix A, Regional Facilities include: (i) new transmission enhancements and expansions that are alternating current (“A.C.”) facilities that operate at or above 500 kV; (ii) single enhancements and expansions comprised of two A.C. circuits operating at or above 345 kV, and below 500 kV, where both circuits originate from a single substation or switching station at one end and terminate at a single substation or switching station at the other end; (iii) A.C. or direct current (“D.C.”) shunt reactive resources connected to a Transmission Facility described in (i) or (ii); or (iv) D.C. facilities.

<sup>5</sup> “Necessary Lower Voltage Facilities” are defined the same for Tariff, Schedule 12-Appendix and Tariff, Schedule 12-Appendix A, and include new transmission enhancements and expansions that will operate below 500 kV that must be constructed or strengthened to support new Regional Facilities. *See* Tariff, Schedule 12, section (b)(i).

<sup>6</sup> “Lower Voltage Facilities” are facilities that are not Regional Facilities or Necessary Lower Voltage Facilities. *See* Tariff, Schedule 12, section (b)(ii).

<sup>7</sup> A “State Agreement Public Policy Project,” as defined in Schedule 12 to the PJM Tariff, is a transmission enhancement or expansion proposed pursuant to Operating Agreement, Schedule 6, section 1.5.9(a) that is not a Supplemental Project. PJM Tariff, Schedule 12, section (b)(xii)(B).

<sup>8</sup> *See* Tariff, Schedule 12, section (b)(iii)(H)(2).

set forth in the Annual Update Filings be made effective as of January 1 of the applicable calendar year.

Second, within 30 days of approval by the PJM Board of Managers (“PJM Board”) of each RTEP, or addition to the RTEP, PJM is required to designate in Tariff, Schedule 12-Appendix A and/or Tariff, Schedule 12-Appendix C, as applicable,<sup>9</sup> the cost responsibility assignments for transmission enhancements and expansions included in the RTEP.<sup>10</sup> Typically, the PJM Board meets four times per year to approve additions to the RTEP, and, as such, PJM typically amends Tariff, Schedule 12-Appendices A and C four times per year to reflect additions to the RTEP (“Board Update Filings”). Notably, PJM does not file revisions to each section of Tariff, Schedule 12-Appendices A and C when it submits Board Update Filings. Rather, only those sections that include a new baseline upgrade or a revision to an existing baseline upgrade approved by the PJM Board are filed with the Commission. For each such Board Update Filing, PJM requests an effective date that is 90 days after the date of filing.<sup>11</sup>

As PJM has previously explained,<sup>12</sup> due to overlapping timing in the submission and effective dates of the Annual Update Filings and subsequent periodic Board Update Filings, PJM often has two or more filings affecting the same sections pending before the Commission at the same time. The Commission has directed PJM to make a timely clean-up filing after issuance of

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<sup>9</sup> See *supra* n.3.

<sup>10</sup> See Tariff, Schedule 12(b)(viii); Operating Agreement, Schedule 6, section 1.6. See also Tariff, Schedule 12(b)(xii); Operating Agreement, Schedule 6, section 1.5.9.

<sup>11</sup> Tariff, Schedule 12(b)(viii) provides that customers designated to be responsible for assignments of cost responsibility shall have 30 days from the date of such filing to seek review regarding the proposed cost responsibility assignments. To accommodate such a comment date, PJM requests an effective date that is 90 days after the date of filing.

<sup>12</sup> See *PJM Interconnection, L.L.C.*, Motion for Leave to Answer and Answer of PJM Interconnection, L.L.C., Docket No. ER24-786-000, at 8-9 (Feb. 6, 2024).

the Commission orders on such overlapping filings to ensure the rates on file are accurate.<sup>13</sup> Consistent with the Commission’s direction, PJM submits this clean-up filing to ensure that cost responsibility assignments recently approved by the Commission are accurate.<sup>14</sup>

***B. Additional Filing Necessitating this Clean-Up Filing***

PJM submits other filings that require revisions to the Schedule 12 Appendices. In November 2023, for example, PJM submitted a filing proposing amendments to the PJM Governing Documents in connection with the integration of FirstEnergy Pennsylvania Electric Company (“FE PA”), and Keystone Appalachian Transmission Company (“KATCo”) into PJM as a result of FirstEnergy Corp.’s (“FirstEnergy’s”) internal corporate reorganization (“Transaction”).<sup>15</sup> In the November 2023 Governing Documents Filing, PJM revised Tariff, Schedule 12-Appendix and Schedule 12-Appendix A by adding two new sections to the Schedule 12 Appendices (*i.e.*, new Tariff, Schedule 12-Appendix, section 25 (KATCo) and new Tariff, Schedule 12-Appendix-A, section 33 (KATCo)) to reflect that KATCo will own and operate West Penn’s transmission assets in the APS Transmission Zone, and will be the transmission owner for purposes of these schedules. In corresponding revisions, PJM also removed references to West Penn from the headings for the existing Schedule 12-Appendix and Schedule 12-Appendix A sections for APS, and removed West Penn’s assets from the existing Schedule 12-Appendix and Schedule 12-Appendix A sections (*i.e.*, Tariff, Schedule 12-Appendix, section 14 (Monongahela

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<sup>13</sup> *PJM Interconnection, L.L.C.*, 186 FERC ¶ 61,148, at P 29 (2024).

<sup>14</sup> PJM anticipates that it will be submitting additional clean-up filings to ensure that the Appendices to Tariff, Schedule 12 reflect all Commission-accepted revisions on historical and going forward bases.

<sup>15</sup> See *PJM Interconnection, L.L.C.*, Revisions to PJM OATT, Operating Agreement, and RAA, Docket Nos. ER24-284-000, *et al.* (Nov. 1, 2023) (“November 2023 Governing Documents Filing”); *PJM Interconnection, L.L.C.*, Docket Nos. ER24-284-000, *et al.* (Dec. 18, 2023) (letter order accepting the November 2023 Governing Documents Filing).

Power Company (“MonPower”) and Tariff, Schedule 12-Appendix A (MonPower), respectively).

At the time of the November 2023 Governing Documents Filing, FE PA and KATCo anticipated that the Transaction would close on January 1, 2024, but the exact date was not certain. Thus, PJM requested an open-ended effective date of 12/31/9998 for the Governing Documents revisions attached to the November 2023 Governing Documents Filing, including the revisions to Tariff, Schedule 12-Appendix and Schedule 12-Appendix A described above.<sup>16</sup> Subsequently, following consummation of the Transaction,<sup>17</sup> PJM notified the Commission that the effective date for the revisions to the PJM Governing Documents already accepted by the Commission, including the revisions to Tariff, Schedule 12-Appendix and Schedule 12-Appendix A described above, are effective as of January 1, 2024.<sup>18</sup>

## II. DESCRIPTION OF CLEAN-UP FILING

As relevant to this filing, PJM has submitted several filings recently in which it proposed revisions to the same sections of the Schedule 12 Appendices.

First, as described above, on November 1, 2023, PJM submitted the November 2023 Governing Documents Filing. Among other sections of various Governing Documents, and as relevant here, in that filing, PJM submitted proposed revisions to PJM Tariff, Schedule 12-Appendix and Schedule 12-Appendix A in connection with the integration of FE PA and KATCo

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<sup>16</sup> See November 2023 Governing Documents Filing at 2.

<sup>17</sup> The Transaction was approved by the Commission in Docket No. EC23-59-000. See *FirstEnergy Corp., et al.*, 184 FERC ¶ 61,094 (2023).

<sup>18</sup> See *PJM Interconnection, L.L.C.*, Revisions to PJM Open Access Transmission Tariff, Operating Agreement, Reliability Assurance Agreement, and Consolidated Transmission Owners Agreement For FirstEnergy Pennsylvania Electric Company and Keystone Appalachian Transmission Company, Docket Nos. ER24-284-001, *et al.* (Jan. 29, 2024).

into PJM as a result of FirstEnergy's internal corporate reorganization.<sup>19</sup> The Commission accepted the proposed revisions, which became effective on January 1, 2024.<sup>20</sup>

Second, on November 2, 2023, PJM submitted proposed revisions to PJM Tariff, Schedule 12-Appendix A, to incorporate cost responsibility assignments for baseline upgrades approved by the PJM Board on October 3, 2023.<sup>21</sup> On January 30, 2024, the Commission accepted the cost responsibility assignments set forth in the November 2023 Board Update Filing to be effective January 31, 2024.<sup>22</sup>

Third, following the submission of the November 2023 Governing Documents Filing and November 2023 Board Update Filing, and prior to the Commission's acceptance of these filings with effective dates of January 1, 2024 and January 31, 2024, PJM submitted its Annual Update Filing to reflect cost responsibility assignments for PJM RTEP baseline projects for calendar year 2024. Specifically, on December 29, 2023,<sup>23</sup> PJM filed the 2024 Annual Update Filing, proposing revisions to PJM Tariff, Schedule 12-Appendix, Schedule 12-Appendix A, and Schedule 12-Appendix C to update annual cost responsibility assignments for Regional Facilities,

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<sup>19</sup> As relevant to this clean-up filing, in the November 2023 Governing Documents Filing, PJM proposed revisions to two (2) sections of Tariff, Schedule 12-Appendix (*i.e.*, Section 14 – MonPower and Section 25 - KATCo) and two (2) sections of Tariff, Schedule 12-Appendix A (*i.e.*, Section 14 – MonPower and Section 33 - KATCo).

<sup>20</sup> *See supra*, n.15. *See also*, *PJM Interconnection, L.L.C.*, Revisions to PJM Open Access Transmission Tariff, Operating Agreement, Reliability Assurance Agreement, and Consolidated Transmission Owners Agreement For FirstEnergy Pennsylvania Electric Company and Keystone Appalachian Transmission Company, Notice of Effective Date of Governing Document Revisions, Docket Nos. ER24-284-001, *et al.* (Jan. 29, 2024).

<sup>21</sup> *PJM Interconnection, L.L.C.*, Revisions to Incorporate Cost Responsibility Assignments for Regional Transmission Expansion Plan Baseline Upgrades, Docket No. ER24-321-000 (Nov. 2, 2023) (“November 2023 Board Update Filing”). As relevant to this clean-up filing, in the November 2023 Board Update Filing, PJM proposed revisions to the following two (2) sections of Tariff, Schedule 12-Appendix A: Schedule 7, Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (“Penelec”); and Schedule 14, Monongahela Power Company, the Potomac Edison Company, and West Penn Power Company for the Allegheny Power (“Mon Power”) Zone.

<sup>22</sup> *PJM Interconnection, L.L.C.*, 186 FERC ¶ 61,079 (2024).

<sup>23</sup> *PJM Interconnection, L.L.C.*, 2024 Annual Update, Docket No. ER24-786-000 (Dec. 29, 2023) (“2024 Annual Update Filing”).

Necessary Lower Voltage Facilities, Lower Voltage Facilities and State Agreement Public Policy Projects, consistent with PJM Tariff, Schedule 12. As relevant to this clean-up filing, the 2024 Annual Update Filing included revisions to many sections of Tariff, Schedule 12-Appendices A and C. On February 27, 2024, the Commission accepted the revisions proposed in the 2024 Annual Update Filing to be effective January 1, 2024.<sup>24</sup>

Fourth, following the submission of the 2024 Annual Update Filing, and prior to acceptance of the November 2023 Board Update Filing and the 2024 Annual Update Filing, PJM proposed revisions to reflect cost responsibility assignments for new RTEP projects approved by the PJM Board on December 11, 2023. Specifically, on January 10, 2024, PJM submitted proposed revisions to several sections of PJM Tariff, Schedule 12-Appendices A and C, to incorporate cost responsibility assignments for baseline upgrades in the update to the RTEP approved by the PJM Board on December 11, 2023.<sup>25</sup> On April 8, 2024, the Commission accepted the cost allocation assignments set forth in the January 2024 Board Update Filing, to be effective April 9, 2024.<sup>26</sup>

Thus, as shown in the chart included as Attachment C<sup>27</sup> to this filing, PJM filed revisions to:

- two (2) section of Tariff, Schedule 12-Appendix in the 2024 Annual Update Filing (made effective January 1, 2024) to which PJM also proposed revisions in the November 2023 Governing Documents Filing (made effective January 1, 2024);

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<sup>24</sup> *PJM Interconnection, L.L.C.*, 186 FERC ¶ 61,148 (2024), *reh'g pending*.

<sup>25</sup> *PJM Interconnection, L.L.C.*, Revisions to Incorporate Cost Responsibility Assignments for Regional Transmission Expansion Plan Baseline Upgrades, Docket No. ER24-843-000 (Jan. 10, 2024) (“January 2024 Board Update Filing”). As relevant to this clean-up filing, in the January 2024 Board Update Filing, PJM proposed revisions to the following nine (9) sections of Tariff, Schedule 12-Appendix A; Section 2, Baltimore Gas & Electric Company (“BG&E”); Section 3, Delmarva Power & Light Company (“Delmarva”); Section 5, Metropolitan Edison Company (“MetEd”); Section 8, PECO Energy Company (“PECO”); Section 9, PPL Electric Utilities Corporation (“PPL”); Section 12, Public Service Electric and Gas Company (“PSE&G”); Section 14, Mon Power; Section 17, AEP; Section 20, VEPCO. PJM also proposed revisions to Tariff, Schedule 12-Appendix C.

<sup>26</sup> *PJM Interconnection, L.L.C.*, 187 FERC ¶ 61,012 (2024).

<sup>27</sup> Attachment C summarizes the subsequent versions being updated, the respective effective dates, the docket in which the version was initially accepted, and the versions being incorporated with this clean-up filing.

- eleven (11) sections of Tariff, Schedule 12-Appendix A in the 2024 Annual Update Filing (made effective January 1, 2024) to which PJM also proposed revisions in the November 2023 Governing Documents Filing (made effective January 1, 2024), as well as the November 2023 and January 2024 Board Update Filings (made effective January 31, 2024 and April 9, 2024, respectively); and
- one (1) section of Tariff, Schedule 12-Appendix C in the 2024 Annual Update Filing (made effective January 1, 2024) and in the January 2024 Board Update Filing (made effective April 9, 2024).

Due to the overlapping timing of and respective effective dates associated with the November 2023 Governing Documents Filing, the November 2023 Board Update Filing, the 2024 Annual Update Filing, and the January 2024 Board Update Filing, the revisions accepted by the Commission in those dockets will not be reflected correctly in the Schedule 12 Appendices absent this ministerial clean-up.

### **III. REQUEST FOR WAIVER AND EFFECTIVE DATE**

PJM requests waiver of the FPA's and the Commission's 60 days' notice requirement<sup>28</sup> to allow the Commission to accept these ministerial corrections effective on the dates shown in the chart above. Good cause exists for granting such waiver. The Commission has already accepted the cost responsibility assignments set forth on the Tariff sections to be effective as of the dates shown above. Allowing the updated versions of Tariff, Schedule 12-Appendix, Schedule 12-Appendix A, and Schedule 12-Appendix C to be effective on those dates is appropriate because it will ensure that Tariff, Schedule 12-Appendix, Schedule 12-Appendix A, and Schedule 12-Appendix C consistently and continuously reflect the correct, Commission-accepted Tariff records on the effective dates granted by the Commission. Further, PJM is not proposing any new revisions

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<sup>28</sup> See 16 U.S.C. § 824d(d); 18 C.F.R. § 35.3.

to Tariff, Schedule 12-Appendix, Schedule 12-Appendix A, or Schedule 12-Appendix C. Accordingly, the Commission should accept this filing with the requested effective dates.

#### **IV. DOCUMENTS ENCLOSED**

PJM encloses the following documents with this filing:

1. This transmittal letter;
2. Attachment A – Restored Tariff, Schedule 12-Appendix, Schedule 12-Appendix A, and Schedule 12-Appendix C in clean format (identified by additional cover pages);<sup>29</sup>
3. Attachment B – Copies of previously submitted and accepted redlines that are being incorporated (identified by additional cover pages); and
4. Attachment C – Chart summarizing the Tariff, Schedule 12 Appendices that are being updated as part of this clean-up filing.

#### **V. COMMUNICATIONS**

The following individuals are designated for inclusion on the official service list in this proceeding and 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

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<sup>29</sup> Because PJM is simply combining accepted language into singular versions of eTariff records, no language is being changed from what was filed before and accepted by the Commission, thus PJM is submitting these eTariff records in clean format only.

Commission's regulations,<sup>30</sup> PJM will post a copy of this filing to the FERC filings section of its internet site, located at the following link: <https://www.pjm.com/library/filing-order> 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 Region<sup>31</sup> 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 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.

## VII. CONCLUSION

PJM respectfully requests that the Commission accept this clean-up filing with the requested effective dates as set forth above and in Attachment C.

Respectfully submitted,

*/s/ Jessica M. Lynch*  
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<sup>30</sup> See 18 C.F.R. §§ 35.2(e) and 385.2010(f)(3) (2022).

<sup>31</sup> PJM already maintains, updates and regularly uses e-mail lists for all PJM Members and affected state commissions.

## Attachment A

PJM Open Access Transmission Tariff  
Schedule 12-Appendix,  
Schedule 12-Appendix A,  
and Schedule 12-Appendix C

Cleaned-Up

(Identified by Additional Cover Pages)

PJM Open Access Transmission Tariff  
Schedule 12-Appendix  
Section 14 – Monongahela Power Co.  
Effective January 1, 2024  
Version 30.0.1

**SCHEDULE 12 – APPENDIX**

**(14) Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power**

| Required Transmission Enhancements                                   | Annual Revenue Requirement  | Responsible Customer(s)  |
|--|---|--|
| b0216<br>Install -100/+525 MVAR dynamic reactive device at Black Oak | As specified under the procedures detailed in Attachment H-18B, Section 1.b | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%) |
|  |   | <b>DFAX Allocation:</b><br>APS (31.22%) / BGE (10.26%) / Dominion (45.55%) / PEPCO (12.97%)  |
| b0218<br>Install third Wylie Ridge 500/345 kV transformer            | As specified under the procedures detailed in Attachment H-18B, Section 1.b | AEC (11.83%) / DPL (19.40%) / Dominion (13.81%) / JCPL (15.56%) / PECO (39.40%)  |
| b0220<br>Upgrade coolers on Wylie Ridge 500/345 kV #7                |   | AEC (11.83%) / DPL (19.40%) / Dominion (13.81%) / JCPL (15.56%) / PECO (39.40%)  |
| b0229<br>Install fourth Bedington 500/138 kV                         |   | APS (50.98%) / BGE (13.42%) / DPL (2.03%) / Dominion (14.50%) / ME (1.43%) / PEPCO (17.64%)  |
| b0230<br>Install fourth Meadowbrook 500/138 kV                       | As specified under the procedures detailed in Attachment H-18B, Section 1.b | APS (79.16%) / BGE (3.61%) / DPL (0.86%) / Dominion (11.75%) / ME (0.67%) / PEPCO (3.95%)  |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements  | Annual Revenue Requirement  | Responsible Customer(s)                           |
|---|---|---|
| b0238<br>Reconductor Doubs – Dickerson and Doubs – Aqueduct 1200 MVA  | As specified under the procedures detailed in Attachment H-18B, Section 1.b | BGE (16.66%) / Dominion (33.66%) / PEPCO (49.68%) |
| b0240<br>Open the Black Oak #3 500/138 kV transformer for the loss of Hatfield – Back Oak 500 kV line   |   | APS (100%)  |
| b0245<br>Replacement of the existing 954 ACSR conductor on the Bedington – Nipetown 138 kV line with high temperature/low sag conductor       |   | APS (100%)  |
| b0246<br>Rebuild of the Double Tollgate – Old Chapel 138 kV line with 954 ACSR conductor  | As specified under the procedures detailed in Attachment H-18B, Section 1.b | APS (100%)  |
| b0273<br>Open both North Shenandoah #3 transformer and Strasburg – Edinburgh 138 kV line for the loss of Mount Storm – Meadowbrook 572 500 kV |   | APS (100%)  |
| b0322<br>Convert Lime Kiln substation to 230 kV operation   |   | APS (100%)  |
| b0323<br>Replace the North Shenandoah 138/115 kV transformer  | As specified under the procedures detailed in Attachment H-18B, Section 1.b | APS (100%)  |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                       | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0328.2                            | Build new Meadow Brook – Loudoun 500 kV circuit (20 of 50 miles) | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/> APS (6.50%) / BGE (6.33%) / Dominion (78.04%) / PEPCO (9.13%)</p> |
| b0343                              | Replace Doubs 500/230 kV transformer #2                          | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p>AEC (1.85%) / BGE (21.49%) / DPL (3.91%) / Dominion (28.86%) / ME (2.97%) / PECO (5.73%) / PEPCO (35.19%)</p>  |
| b0344                              | Replace Doubs 500/230 kV transformer #3                          | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p>AEC (1.86%) / BGE (21.50%) / DPL (3.91%) / Dominion (28.82%) / ME (2.97%) / PECO (5.74%) / PEPCO (35.20%)</p>  |
| b0345                              | Replace Doubs 500/230 kV transformer #4                          | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p>AEC (1.85%) / BGE (21.49%) / DPL (3.90%) / Dominion (28.83%) / ME (2.98%) / PECO (5.75%) / PEPCO (35.20%)</p>  |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                        | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.1                            | Build new Mt. Storm – 502 Junction 500 kV circuit | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |
| b0347.2                            | Build new Mt. Storm – Meadow Brook 500 kV circuit | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p>  |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement             | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0347.4                            | Upgrade Meadow Brook 500 kV substation | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/> APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.5                            | Replace Harrison 500 kV breaker HL-3      | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |
| b0347.6                            | Upgrade (per ABB inspection) breaker HL-6 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.7                            | Upgrade (per ABB inspection) breaker HL-7 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |
| b0347.8                            | Upgrade (per ABB inspection) breaker HL-8 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                 | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0347.9                            | Upgrade (per ABB inspection) breaker HL-10 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.17                           | Replace Meadow Brook 138 kV breaker 'MD-10' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |
| b0347.18                           | Replace Meadow Brook 138 kV breaker 'MD-11' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.19                           | Replace Meadow Brook 138 kV breaker 'MD-12' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |
| b0347.20                           | Replace Meadow Brook 138 kV breaker 'MD-13' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.21                           | Replace Meadow Brook 138 kV breaker 'MD-14' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |
| b0347.22                           | Replace Meadow Brook 138 kV breaker 'MD-15' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.23                           | Replace Meadow Brook 138 kV breaker 'MD-16' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |
| b0347.24                           | Replace Meadow Brook 138 kV breaker 'MD-17' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                        | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.25                           | Replace Meadow Brook 138 kV breaker 'MD-18'       | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |
| b0347.26                           | Replace Meadow Brook 138 kV breaker 'MD-22#1 CAP' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                 | Responsible Customer(s)   |
|------------------------------------|--|---|
| b0347.27                           | Replace Meadow Brook 138 kV breaker 'MD-4' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |
| b0347.28                           | Replace Meadow Brook 138 kV breaker 'MD-5' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.29                           | Replace Meadowbrook 138 kV breaker 'MD-6' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |
| b0347.30                           | Replace Meadowbrook 138 kV breaker 'MD-7' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.31                           | Replace Meadowbrook 138 kV breaker 'MD-8' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |
| b0347.32                           | Replace Meadowbrook 138 kV breaker 'MD-9' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                       | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0347.33                           | Replace Meadow Brook 138 kV breaker 'MD-1'                       | APS (100%)   |
| b0347.34                           | Replace Meadow Brook 138 kV breaker 'MD-2'                       | APS (100%)   |
| b0348                              | Upgrade Stonewall – Inwood 138 kV with 954 ACSR conductor        | APS (100%)   |
| b0373                              | Convert Doubs – Monocacy 138 kV facilities to 230 kV operation   | AEC (1.82%) / APS (76.84%) / DPL (2.64%) / JCPL (4.53%) / ME (9.15%) / NEPTUNE* (0.42%) / PPL (4.60%)  |
| b0393                              | Replace terminal equipment at Harrison 500 kV and Belmont 500 kV | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%) |
|                                    |  | <b>DFAX Allocation:</b><br>APS (0.01%) / DEOK (0.01%) / DL (4.83%) / Dominion (95.15%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                 | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b0407.1                            | Replace Marlowe 138 kV breaker “#1 transf” | APS (100%)              |
| b0407.2                            | Replace Marlowe 138 kV breaker “MBO”       | APS (100%)              |
| b0407.3                            | Replace Marlowe 138 kV breaker “BMA”       | APS (100%)              |
| b0407.4                            | Replace Marlowe 138 kV breaker “BMR”       | APS (100%)              |
| b0407.5                            | Replace Marlowe 138 kV breaker “WC-1”      | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                       | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b0407.6                            | Replace Marlowe 138 kV breaker "R11"             | APS (100%)              |
| b0407.7                            | Replace Marlowe 138 kV breaker "W"               | APS (100%)              |
| b0407.8                            | Replace Marlowe 138 kV breaker "138 kV bus tie"  | APS (100%)              |
| b0408.1                            | Replace Trissler 138 kV breaker "Belmont 604"    | APS (100%)              |
| b0408.2                            | Replace Trissler 138 kV breaker "Edgelawn 90"    | APS (100%)              |
| b0409.1                            | Replace Weirton 138 kV breaker "Wylie Ridge 210" | APS (100%)              |
| b0409.2                            | Replace Weirton 138 kV breaker "Wylie Ridge 216" | APS (100%)              |
| b0410                              | Replace Glen Falls 138 kV breaker "McAlpin 30"   | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0419                              | Install a breaker failure auto-restoration scheme at Bedington 500 kV for the failure of the #1 and #2 breakers                            | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (100%)</p> |
| b0420                              | Operating Procedure to open the Black Oak 500/138 kV transformer #3 for the loss of Hatfield – Ronco 500 kV and the Hatfield #3 Generation | APS (100%)   |
| b0445                              | Upgrade substation equipment and reconductor the Tidd – Mahans Lane – Weirton 138 kV circuit with 954 ACSR                                 | APS (100%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |   |
|------------------------------------|---|--|---|
| b0460                              | Raise limiting structures on Albright – Bethelboro 138 kV to raise the rating to 175 MVA normal 214 MVA emergency | APS (100%)   |   |
| b0491                              | Construct an Amos to Welton Spring to WV state line 765 kV circuit (APS equipment)                                | As specified under the procedures detailed in Attachment H-19B | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> |
|                                    |   |  | <p><b>DFAX Allocation:</b><br/>                     AEC (5.01%) / AEP (4.39%) / APS (9.26%) / BGE (4.43%) / DL (0.02%) / DPL (6.91%) / Dominion (10.82%) / JCPL (11.64%) / ME (2.94%) / NEPTUNE* (1.12%) / PECO (14.51%) / PEPCO (6.11%) / PPL (6.39%) / PSEG (15.86%) / RE (0.59%)</p>   |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements  | Annual Revenue Requirement  | Responsible Customer(s)  |
|---|---|--|
| b0492   | Construct a Welton Spring to Kemptown 765 kV line (APS equipment) | As specified under the procedures detailed in Attachment H-19B |
| <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> |   |  |
| <p><b>DFAX Allocation:</b><br/>           AEC (5.01%) / AEP (4.39%) / APS (9.26%) / BGE (4.43%) / DL (0.02%) / DPL (6.91%) / Dominion (10.82%) / JCPL (11.64%) / ME (2.94%) / NEPTUNE* (1.12%) / PECO (14.51%) / PEPCO (6.11%) / PPL (6.39%) / PSEG (15.86%) / RE (0.59%)</p>   |   |  |
| b0492.3   | Replace Eastalco 230 kV breaker D-26                              | APS (100%)   |
| b0492.4   | Replace Eastalco 230 kV breaker D-28                              | APS (100%)   |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0492.5                            | Replace Eastalco 230 kV breaker D-31   | APS (100%)   |
| b0495                              | Replace existing Kammer 765/500 kV transformer with a new larger transformer | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%) |
|                                    |  | <b>DFAX Allocation:</b><br>AEP (21.66%) / APS (0.01%) / BGE (7.14%) / DEOK (0.01%) / Dominion (62.25%) / PEPCO (8.93%)   |
| b0533                              | Reconductor the Powell Mountain – Sutton 138 kV line                         | APS (100%)   |
| b0534                              | Install a 28.61 MVAR capacitor on Sutton 138 kV                              | APS (100%)   |
| b0536                              | Replace Doubs circuit breaker DJ1  | APS (100%)   |
| b0537                              | Replace Doubs circuit breaker DJ7  | APS (100%)   |
| b0538                              | Replace Doubs circuit breaker DJ10   | APS (100%)   |
| b0539                              | Replace Doubs circuit breaker DJ11   | APS (100%)   |
| b0540                              | Replace Doubs circuit breaker DJ12   | APS (100%)   |
| b0541                              | Replace Doubs circuit breaker DJ13   | APS (100%)   |
| b0542                              | Replace Doubs circuit breaker DJ20   | APS (100%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                      | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0543                              | Replace Doubs circuit breaker DJ21                              | APS (100%)   |
| b0544                              | Remove instantaneous reclose from Eastalco circuit breaker D-26 | APS (100%)   |
| b0559                              | Install 200 MVAR capacitor at Meadow Brook 500 kV substation    | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / COMED (14.06%) / DAYTON (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / DOMINION (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%) |
|                                    |   | <b>DFAX Allocation:</b><br>APS (21.84%) / BGE (7.08%) / DOMINION (60.14%) / PEPCO (10.94%)   |
| b0560                              | Install 250 MVAR capacitor at Kemptown 500 kV substation        | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%) |
|                                    |   | <b>DFAX Allocation:</b><br>AEC (5.01%) / AEP (4.39%) / APS (9.26%) / BGE (4.43%) / DL (0.02%) / DPL (6.91%) / Dominion (10.82%) / JCPL (11.64%) / ME (2.94%) / NEPTUNE* (1.12%) / PECO (14.51%) / PEPCO (6.11%) / PPL (6.39%) / PSEG (15.86%) / RE (0.59%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0572.1                            | Reconductor Albright – Mettiki – Williams – Parsons – Loughs Lane 138 kV with 954 ACSR | APS (100%)   |
| b0572.2                            | Reconductor Albright – Mettiki – Williams – Parsons – Loughs Lane 138 kV with 954 ACSR | APS (100%)   |
| b0573                              | Reconfigure circuits in Butler – Cabot 138 kV area                                     | APS (100%)   |
| b0577                              | Replace Fort Martin 500 kV breaker FL-1  | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%) |
|                                    |  | <b>DFAX Allocation:</b><br>APS (100%)  |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                             | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0588                              | Install a 40.8 MVAR 138 kV capacitor at Grassy Falls   | APS (100%)   |
| b0589                              | Replace five 138 kV breakers at Cecil                  | APS (100%)   |
| b0591                              | Install a 25.2 MVAR capacitor at Seneca Caverns 138 kV | APS (100%)   |
| b0674                              | Construct new Osage – Whiteley 138 kV circuit          | APS (97.68%) / DL (0.96%) / PENELEC (1.09%) / ECP** (0.01%) / PSEG (0.25%) / RE (0.01%)  |
| b0674.1                            | Replace the Osage 138 kV breaker ‘CollinsF126’         | APS (100%)   |
| b0675.1                            | Convert Monocacy - Walkersville 138 kV to 230 kV       | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.2                            | Convert Walkersville - Catoctin 138 kV to 230 kV       | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |

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

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0675.3                            | Convert Ringgold - Catoctin 138 kV to 230 kV                 | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.4                            | Convert Catoctin - Carroll 138 kV to 230 kV                  | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.5                            | Convert portion of Ringgold Substation from 138 kV to 230 kV | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.6                            | Convert Catoctin Substation from 138 kV to 230 kV            | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.7                            | Convert portion of Carroll Substation from 138 kV to 230 kV  | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.8                            | Convert Monocacy Substation from 138 kV to 230 kV            | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |

\*Neptune Regional Transmission System, LLC

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

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                              | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0675.9                            | Convert Walkersville Substation from 138 kV to 230 kV   | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)     |
| b0676.1                            | Reconductor Doubs - Lime Kiln (#207) 230 kV             | AEC (0.64%) / APS (86.70%) / DPL (0.53%) / JCPL (1.93%) / ME (4.04%) / NEPTUNE* (0.18%) / PECO (1.93%) / PENELEC (0.93%) / PSEG (2.92%) / RE (0.12%) / ECP** (0.08%) |
| b0676.2                            | Reconductor Doubs - Lime Kiln (#231) 230 kV             | AEC (0.64%) / APS (86.70%) / DPL (0.53%) / JCPL (1.93%) / ME (4.04%) / NEPTUNE* (0.18%) / PECO (1.93%) / PENELEC (0.93%) / PSEG (2.92%) / RE (0.12%) / ECP** (0.08%) |
| b0677                              | Reconductor Double Toll Gate – Riverton with 954 ACSR   | APS (100%)   |
| b0678                              | Reconductor Glen Falls - Oak Mound 138 kV with 954 ACSR | APS (100%)   |
| b0679                              | Reconductor Grand Point – Letterkenny with 954 ACSR     | APS (100%)   |
| b0680                              | Reconductor Greene – Letterkenny with 954 ACSR          | APS (100%)   |

\*Neptune Regional Transmission System, LLC

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

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                             | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0685                              | Replace Ringgold 230/138 kV #3 with larger transformer | APS (71.93%) / JCPL (4.17%) / ME (6.79%) / NEPTUNE* (0.38%) / PECO (4.05%) / PENELEC (5.88%) / ECP** (0.18%) / PSEG (6.37%) / RE (0.25%) |
| b0797                              | Advance n0321 (Replace Doubs Circuit Breaker DJ2)      | APS (100%)   |
| b0798                              | Advance n0322 (Replace Doubs Circuit Breaker DJ3)      | APS (100%)   |
| b0799                              | Advance n0323 (Replace Doubs Circuit Breaker DJ6)      | APS (100%)   |
| b0800                              | Advance n0327 (Replace Doubs Circuit Breaker DJ16)     | APS (100%)   |
| b0941                              | Replace Opequon 138 kV breaker 'BUSTIE'                | APS (100%)   |
| b0956                              | Replace Pruntytown 138 kV breaker 'P-9'                | APS (100%)   |
| b0957                              | Replace Pruntytown 138 kV breaker 'P-12'               | APS (100%)   |
| b0958                              | Replace Pruntytown 138 kV breaker 'P-15'               | APS (100%)   |

\*Neptune Regional Transmission System, LLC

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

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                        | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b0960                              | Replace Pruntytown 138 kV breaker 'P-2'           | APS (100%)              |
| b0961                              | Replace Pruntytown 138 kV breaker 'P-5'           | APS (100%)              |
| b0964                              | Replace Pruntytown 138 kV breaker 'P-11'          | APS (100%)              |
| b0966                              | Replace Pruntytown 138 kV breaker 'P-8'           | APS (100%)              |
| b0967                              | Replace Pruntytown 138 kV breaker 'P-14'          | APS (100%)              |
| b0968                              | Replace Ringgold 138 kV breaker '#3 XFMR BANK'    | APS (100%)              |
| b0970                              | Replace Rivesville 138 kV breaker '#8 XFMR BANK'  | APS (100%)              |
| b0972                              | Replace Belmont 138 kV breaker 'B-16'             | APS (100%)              |
| b0977                              | Replace Belmont 138 kV breaker 'B-17'             | APS (100%)              |
| b0984                              | Replace Rivesville 138 kV breaker '#10 XFMR BANK' | APS (100%)              |
| b0985                              | Replace Belmont 138 kV breaker 'B-14'             | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---------------------------|
| b0989                              | Replace Edgelawn 138 kV breaker 'GOFF RUN #632'   | APS (100%)                |
| b0991                              | Change reclosing on Belmont 138 kV breaker 'B-7'  | APS (100%)                |
| b0992                              | Change reclosing on Belmont 138 kV breaker 'B-12'   | APS (100%)                |
| b0993                              | Change reclosing on Belmont 138 kV breaker 'B-9'  | APS (100%)                |
| b0994                              | Change reclosing on Belmont 138 kV breaker 'B-19'   | APS (100%)                |
| b0995                              | Change reclosing on Belmont 138 kV breaker 'B-21'   | APS (100%)                |
| b0996                              | Change reclosing on Willow Island 138 kV breaker 'FAIRVIEW #84'   | APS (100%)                |
| b0999                              | Replace Redbud 138 kV breaker 'BUS TIE'   | APS (100%)                |
| b1022.1                            | Reconfigure the Peters to Bethel Park 138 kV line and Elrama to Woodville 138 kV line to create a 138 kV path from Woodville to Peters and a 138 kV path from Elrama to Bethel Park | APS (96.98%) / DL (3.02%) |
| b1023.3                            | Construct a new 502 Junction - Osage 138 kV line  | APS (100%)                |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s) |
|--|----------------------------|-------------------------|
| b1023.4<br>Construct Braddock 138 kV breaker station that connects the Charleroi - Gordon 138 kV line, Washington - Franklin 138 kV line and the Washington - Vanceville 138 kV line including a 66 MVAR capacitor |                            | APS (100%)              |
| b1028<br>Raise three structures on the Osage - Collins Ferry 138 kV line to increase the line rating   |                            | APS (100%)              |
| b1128<br>Reconductor the Edgewater – Vasco Tap; Edgewater – Loyalhanna 138 kV lines with 954 ACSR  |                            | APS (100%)              |
| b1129<br>Reconductor the East Waynesboro – Ringgold 138 kV line with 954 ACSR  |                            | APS (100%)              |
| b1131<br>Upgrade Double Tollgate – Meadowbrook MDT Terminal Equipment  |                            | APS (100%)              |
| b1132<br>Upgrade Double Tollgate-Meadowbrook MBG terminal equipment  |                            | APS (100%)              |
| b1133<br>Upgrade terminal equipment at Springdale  |                            | APS (100%)              |
| b1135<br>Reconductor the Bartonville – Meadowbrook 138 kV line with high temperature conductor   |                            | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s)   |
|--|----------------------------|---|
| b1137<br>Reconductor the Eastgate – Luxor 138 kV;<br>Eastgate – Sony 138 kV line with 954 ACSR                 |                            | APS (78.59%) / PENELEC (14.08%) / ECP** (0.23%) / PSEG (6.83%) / RE (0.27%) |
| b1138<br>Reconductor the King Farm – Sony 138 kV line with 954 ACSR  |                            | APS (100%)  |
| b1139<br>Reconductor the Yukon – Waltz Mills 138 kV line with high temperature conductor                       |                            | APS (100%)  |
| b1140<br>Reconductor the Bracken Junction – Luxor 138 kV line with 954 ACSR                                    |                            | APS (100%)  |
| b1141<br>Reconductor the Sewickley – Waltz Mills Tap 138 kV line with high temperature conductor               |                            | APS (100%)  |
| b1142<br>Reconductor the Bartonsville – Stephenson 138 kV;<br>Stonewall – Stephenson 138 kV line with 954 ACSR |                            | APS (100%)  |
| b1143<br>Reconductor the Youngwood – Yukon 138 kV line with high temperature conductor                         |                            | APS (89.92%) / PENELEC (10.08%)   |
| b1144<br>Reconductor the Bull Creek Junction – Cabot 138 kV line with high temperature conductor               |                            | APS (100%)  |

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

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1145                              | Reconductor the Lawson Junction – Cabot 138 kV line with high temperature conductor | APS (100%)              |
| b1146                              | Replace Layton - Smithton #61 138 kV line structures to increase line rating        | APS (100%)              |
| b1147                              | Replace Smith – Yukon 138 kV line structures to increase line rating                | APS (100%)              |
| b1148                              | Reconductor the Loyalhanna – Luxor 138 kV line with 954 ACSR                        | APS (100%)              |
| b1149                              | Reconductor the Luxor – Stony Springs Junction 138 kV line with 954 ACSR            | APS (100%)              |
| b1150                              | Upgrade terminal equipment at Social Hall   | APS (100%)              |
| b1151                              | Reconductor the Greenwood – Redbud 138 kV line with 954 ACSR                        | APS (100%)              |
| b1152                              | Reconductor Grand Point – South Chambersburg  | APS (100%)              |
| b1162                              | Replace Double Toll Gate 138 kV breaker ‘DRB-2’                                     | APS (100%)              |
| b1163                              | Replace Double Toll Gate 138 kV breaker ‘DT 138 kV OCB’                             | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b1166                              | Replace Wylie Ridge 138 kV breaker 'W-9'   | APS (100%)  |
| b1167                              | Replace Reid 138 kV breaker 'RI-2'   | APS (100%)  |
| b1171.1                            | Install the second Black Oak 500/138 kV transformer, two 138 kV breaker, and related substation work | BGE (20.76%) / DPL (3.14%) / Dominion (39.55%) / ME (2.71%) / PECO (3.36%) / PEPCO (30.48%)   |
| b1171.3                            | Install six 500 kV breakers and remove BOL1 500 kV breaker at Black Oak                              | AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%) |
| b1200                              | Reconductor Double Toll Gate – Greenwood 138 kV with 954 ACSR conductor                              | APS (100%)  |
| b1221.1                            | Convert Carbon Center from 138 kV to a 230 kV ring bus   | APS (100%)  |
| b1221.2                            | Construct Bear Run 230 kV substation with 230/138 kV transformer                                     | APS (100%)  |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b1221.3                            | Loop Carbon Center Junction – Williamette line into Bear Run  | APS (100%)   |
| b1221.4                            | Carbon Center – Carbon Center Junction & Carbon Center Junction – Bear Run conversion from 138 kV to 230 kV                                   | APS (100%)   |
| b1230                              | Reconductor Willow-Eureka & Eureka-St Mary 138 kV lines   | APS (100%)   |
| b1232                              | Reconductor Nipetown – Reid 138 kV with 1033 ACCR   | AEC (1.40%) / APS (75.74%) / DPL (1.92%) / JCPL (2.92%) / ME (6.10%) / NEPTUNE* (0.27%) / PECO (4.40%) / PENELEC (3.26%) / PPL (3.99%) |
| b1233.1                            | Upgrade terminal equipment at Washington  | APS (100%)   |
| b1234                              | Replace structures between Ridgeway and Paper city  | APS (100%)   |
| b1235                              | Reconductor the Albright – Black Oak AFA 138 kV line with 795 ACSS/TW   | APS (30.25%) / BGE (16.10%) / Dominion (30.51%) / PEPSCO (23.14%)  |
| b1237                              | Upgrade terminal equipment at Albright, replace bus and line side breaker disconnects and leads, replace breaker risers, upgrade RTU and line | APS (100%)   |
| b1238                              | Install a 138 kV 44 MVAR capacitor at Edgelawn substation   | APS (100%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)                    |
|------------------------------------|--|--|
| b1239                              | Install a 138 kV 44 MVAR capacitor at Ridgeway substation                              | APS (100%)                                 |
| b1240                              | Install a 138 kV 44 MVAR capacitor at Elko Substation                                  | APS (100%)                                 |
| b1241                              | Upgrade terminal equipment at Washington substation on the GE Plastics/DuPont terminal | APS (100%)                                 |
| b1242                              | Replace structures between Collins Ferry and West Run                                  | APS (100%)                                 |
| b1384                              | Reconductor approximately 2.17 miles of Bedington – Shepherdstown 138 kV with 954 ACSR | APS (100%)                                 |
| b1385                              | Reconductor Halfway – Paramount 138 kV with 1033 ACCR                                  | APS (100%)                                 |
| b1386                              | Reconductor Double Tollgate – Meadow Brook 138 kV ckt 2 with 1033 ACCR                 | APS (93.33%) / BGE (3.39%) / PEPCO (3.28%) |
| b1387                              | Reconductor Double Tollgate – Meadow Brook 138 kV                                      | APS (93.33%) / BGE (3.39%) / PEPCO (3.28%) |
| b1388                              | Reconductor Feagans Mill – Millville 138 kV with 954 ACSR                              | APS (100%)                                 |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)                   |
|------------------------------------|--|---|
| b1389                              | Reconductor Bens Run – St. Mary’s 138 kV with 954 ACSR                                 | AEP (12.40%) / APS (17.80%) / DL (69.80%) |
| b1390                              | Replace Bus Tie Breaker at Opequon   | APS (100%)                                |
| b1391                              | Replace Line Trap at Gore  | APS (100%)                                |
| b1392                              | Replace structure on Belmont – Trissler 138 kV line                                    | APS (100%)                                |
| b1393                              | Replace structures Kingwood – Pruntytown 138 kV line                                   | APS (100%)                                |
| b1395                              | Upgrade Terminal Equipment at Kittanning   | APS (100%)                                |
| b1401                              | Change reclosing on Pruntytown 138 kV breaker ‘P-16’ to 1 shot at 15 seconds           | APS (100%)                                |
| b1402                              | Change reclosing on Rivesville 138 kV breaker ‘Pruntytown #34’ to 1 shot at 15 seconds | APS (100%)                                |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b1408                              | Replace the Weirton 138 kV breaker 'Tidd 224' with a 40 kA breaker | APS (100%)   |
| b1507.2                            | Terminal Equipment upgrade at Doubs substation                     | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>           APS (21.30%) / BGE (6.62%) / Dominion (64.59%) / PEPCO (7.49%)</p> |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b1507.3                            | Mt. Storm – Doubs transmission line rebuild in Maryland – Total line mileage for APS is 2.71 miles | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.30%) / BGE (6.62%) / Dominion (64.59%) / PEPCO (7.49%)</p> |
| b1510                              | Install 59.4 MVAR capacitor at Waverly   | APS (100%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b1803                              | Build a 300 MVAR Switched Shunt at Doubs 500 kV and increase (~50 MVAR) in size the existing Switched Shunt at Doubs 500 kV | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.30%) / BGE (6.62%) / Dominion (64.59%) / PEPCO (7.49%)</p>  |
| b1804                              | Install a new 600 MVAR SVC at Meadowbrook 500 kV  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (21.84%) / BGE (7.08%) / Dominion (60.14%) / PEPCO (10.94%)</p> |
| b1816.1                            | Replace relaying at the Mt. Airy substation on the Carroll - Mt. Airy 230 kV line   | APS (100%)  |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s) |
|--|----------------------------|-------------------------|
| <p>b1816.2</p> <p>Adjust the control settings of all existing capacitors at Mt Airy 34.5 kV, Monocacy 138 kV, Ringgold 138 kV served by Potomac Edison's Eastern 230 kV network to ensure that all units will be on during the identified N-1-1 contingencies</p>  |                            | <p>APS (100%)</p>       |
| <p>b1816.3</p> <p>Replace existing unidirectional LTC controller on the No. 4, 230/138 kV transformer at Carroll substation with a bidirectional unit</p>  |                            | <p>APS (100%)</p>       |
| <p>b1816.4</p> <p>Isolate and bypass the 138 kV reactor at Germantown Substation</p>   |                            | <p>APS (100%)</p>       |
| <p>b1816.6</p> <p>Replace 336.4 ACSR conductor on the Catoctin - Carroll 138 kV line using 556.5 ACSR (26/7) or equivalent on existing structures (12.7 miles), 800 A wave traps at Carroll and Catoctin with 1200 A units, and 556.5 ACSR SCCIR (Sub-conductor) line risers and bus traps with 795 ACSR or equivalent</p> |                            | <p>APS (100%)</p>       |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1822                              | Replace the 1200 A wave trap, line risers, breaker risers with 1600 A capacity terminal equipment at Reid 138 kV SS | APS (100%)              |
| b1823                              | Replace the 800 A wave trap with a 1200 A wave trap at Millville 138 kV substation                                  | APS (100%)              |
| b1824                              | Reconductor Grant Point - Guilford 138 kV line approximately 8 miles of 556 ACSR with 795 ACSR                      | APS (100%)              |
| b1826                              | Change the CT ratio at Double Toll Gate 138 kV SS on MDT line   | APS (100%)              |
| b1827                              | Change the CT ratio at Double Toll Gate 138 kV SS on MBG line   | APS (100%)              |
| b1828.1                            | Reconductor the Bartonville – Stephenson 3.03 mile 138 kV line of 556 ACSR with 795 ACSR                            | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s) |
|--|----------------------------|-------------------------|
| b1828.2<br>Reconductor the Stonewall – Stephenson 2.08 mile 138 kV line of 556 ACSR with 795 ACSR  |                            | APS (100%)              |
| b1829<br>Replace the existing 138 kV 556.5 ACSR substation conductor risers with 954 ACSR at the Redbud 138 kV substation, including but not limited to the line side disconnect leads                               |                            | APS (100%)              |
| b1830<br>Replace 1200 A wave trap and 1024 ACAR breaker risers at Halfway 138 kV substation, and replace 1024 ACAR breaker risers at Paramount 138 kV substation   |                            | APS (100%)              |
| b1832<br>Replace the 1200 A line side and bus side disconnect switches with 1600 A switches, replace bus side, line side, and disconnect leads at Lime Kiln SS on the Doubs - Lime Kiln 1 (207) 230 kV line terminal |                            | APS (100%)              |
| b1833<br>Replace the 1200 A line side and bus side disconnect switches with 1600 A switches, replace bus side, line side, and disconnect leads at Lime Kiln SS on the Doubs - Lime Kiln 2 (231) 230 kV line terminal |                            | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b1835                              | Reconductor 14.3 miles of 556 ACSR with 795 ACSR from Old Chapel to Millville 138 kV and upgrade line risers at Old Chapel 138 kV and Millville 138 kV and replace 1200 A wave trap at Millville 138 kV | APS (37.68%) / Dominion (34.46%) / PEPCO (13.69%) / BGE (11.45%) / ME (2.01%) / PENELEC (0.53%) / DL (0.18%) |
| b1836                              | Replace 1200 A wave trap with 1600 A wave trap at Reid 138 kV SS  | APS (100%)   |
| b1837                              | Replace 750 CU breaker risers with 795 ACSR at Marlowe 138 kV and replace 1200 A wave traps with 1600 A wave traps at Marlowe 138 kV and Bedington 138 kV   | APS (100%)   |
| b1838                              | Replace the 1200 A Bedington 138 kV line air switch and the 1200 A 138 kV bus tie air switch at Nipetown 138 kV with 1600 A switches  | APS (100%)   |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b1840                              | Construct a 138 kV line between Buckhannon and Weston 138 kV substations   | APS (100%)              |
| b1902                              | Replace line trap at Stonewall on the Stephenson 138 kV line terminal  | APS (100%)              |
| b1942                              | Change the CT ratio at Millville to improve the Millville – Old Chapel 138 kV line ratings                           | APS (100%)              |
| b1987                              | Reconductor the Osage-Collins Ferry 138 kV line with 795 ACSS. Upgrade terminal equipment at Osage and Collins Ferry | APS (100%)              |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1988                              | Raise structures between Lake Lynn and West Run to eliminate the clearance de-rates on the West Run – Lake Lynn 138 kV line         | APS (100%)              |
| b1989                              | Raise structures between Collins Ferry and West Run to eliminate the clearance de-rates on the Collins Ferry - West Run 138 kV line | APS (100%)              |
| b2095                              | Replace Weirt 138 kV breaker 'S-TORONTO226' with 63 kA rated breaker  | APS (100%)              |
| b2096                              | Revise the reclosing of Weirt 138 kV breaker '2&5 XFMR'   | APS (100%)              |
| b2097                              | Replace Ridgeley 138 kV breaker '#2 XFMR OCB'   | APS (100%)              |
| b2098                              | Revise the reclosing of Ridgeley 138 kV breaker 'AR3' with 40 kA rated breaker  | APS (100%)              |
| b2099                              | Revise the reclosing of Ridgeley 138 kV breaker 'RC1'   | APS (100%)              |
| b2100                              | Replace Ridgeley 138 kV breaker 'WC4' with 40 kA rated breaker  | APS (100%)              |
| b2101                              | Replace Ridgeley 138 kV breaker '1 XFMR OCB' with 40 kA rated breaker   | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2106                              | Replace Wylie Ridge 345 kV breaker 'WK-1' with 63 kA rated breaker             | APS (100%)              |
| b2107                              | Replace Wylie Ridge 345 kV breaker 'WK-2' with 63 kA rated breaker             | APS (100%)              |
| b2108                              | Replace Wylie Ridge 345 kV breaker 'WK-3' with 63 kA rated breaker             | APS (100%)              |
| b2109                              | Replace Wylie Ridge 345 kV breaker 'WK-4' with 63 kA rated breaker             | APS (100%)              |
| b2110                              | Replace Wylie Ridge 345 kV breaker 'WK-6' with 63 kA rated breaker             | APS (100%)              |
| b2111                              | Replace Wylie Ridge 138 kV breaker 'WK-7' with 63 kA rated breaker             | APS (100%)              |
| b2112                              | Replace Wylie Ridge 345 kV breaker 'WK-5'                                      | APS (100%)              |
| b2113                              | Replace Weirton 138 kV breaker 'NO 6 XFMR' with 63 kA rated breaker            | APS (100%)              |
| b2114                              | Replace Armstrong 138 kV breaker 'Bus-Tie' (Status On-Hold pending retirement) | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2124.1                            | Add a new 138 kV line exit   | APS (100%)              |
| b2124.2                            | Construct a 138 kV ring bus and install a 138/69 kV autotransformer  | APS (100%)              |
| b2124.4                            | Construct approximately 5.5 miles of 138 kV line   | APS (100%)              |
| b2165                              | Replace 800A wave trap at Stonewall with a 1200 A wave trap  | APS (100%)              |
| b2166                              | Reconductor the Millville – Sleepy Hollow 138 kV 4.25 miles of 556 ACSR with 795 ACSR, upgrade line risers at Sleepy Hollow, and change 1200 A CT tap at Millville to 800  | APS (100%)              |
| b2168                              | For Grassy Falls 138 kV Capacitor bank adjust turn-on voltage to 1.0 pu with a high limit of 1.04 pu, For Crupperneck and Powell Mountain 138 kV Capacitor Banks adjust turn-on voltage to 1.01 pu with a high limit of 1.035 pu | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2171                              | Replace/Raise structures on the Parsons-William 138 kV line section to eliminate clearance de-rate       | APS (100%)              |
| b2172                              | Replace/Raise structures on the Parsons - Loughs Lane 138 kV line section to eliminate clearance de-rate | APS (100%)              |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix  
Section 25 – Keystone Appalachian  
Transmission Co.  
Effective January 1, 2024  
Version 0.0.1

**SCHEDULE 12 – APPENDIX**

**(25) Keystone Appalachian Transmission Company**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |   |  |
|---------|---|---|--|
| b0347.1 | Build new Mt. Storm – 502 Junction 500 kV circuit | As specified under the procedures detailed in Attachment H-18B, Section 1.b | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |
| b0347.3 | Build new 502 Junction 500 kV substation          | As specified under the procedures detailed in Attachment H-18B, Section 1.b | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.10                           | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-1 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |
| b0347.11                           | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-3 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.12                           | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-4 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |
| b0347.13                           | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-6 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.14                           | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-7 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |
| b0347.15                           | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-9 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.16                           | Upgrade (per ABB inspection) Harrison 500 kV breaker 'HL-3' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (31.98%) / BGE (10.86%) / Dominion (39.86%) / PEPCO (17.30%)</p> |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0406.1                            | Replace Mitchell 138 kV breaker “#4 bank”   | APS (100%)  |
| b0406.2                            | Replace Mitchell 138 kV breaker “#5 bank”   | APS (100%)  |
| b0406.3                            | Replace Mitchell 138 kV breaker “#2 transf”   | APS (100%)  |
| b0406.4                            | Replace Mitchell 138 kV breaker “#3 bank”   | APS (100%)  |
| b0406.5                            | Replace Mitchell 138 kV breaker “Charlerio #2”  | APS (100%)  |
| b0406.6                            | Replace Mitchell 138 kV breaker “Charlerio #1”  | APS (100%)  |
| b0406.7                            | Replace Mitchell 138 kV breaker “Shepler Hill Jct”  | APS (100%)  |
| b0406.8                            | Replace Mitchell 138 kV breaker “Union Jct”   | APS (100%)  |
| b0406.9                            | Replace Mitchell 138 kV breaker “#1-2 138 kV bus tie”   | APS (100%)  |
| b0417                              | Reconductor Mitchell – Shepler Hill Junction 138 kV with 954 ACSR   | APS (100%)  |
| b0418                              | Install a breaker failure auto-restoration scheme at Cabot 500 kV for the failure of the #6 breaker               | AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%) |
| b0460                              | Raise limiting structures on Albright – Bethelboro 138 kV to raise the rating to 175 MVA normal 214 MVA emergency | APS (100%)  |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b0535                              | Install a 44 MVAR capacitor on Dutch Fork 138 kV   |  | APS (100%)              |
| b0584                              | Install 33 MVAR 138 kV capacitor at Necessity 138 kV   |  | APS (100%)              |
| b0585                              | Increase Cecil 138 kV capacitor size to 44 MVAR, replace five 138 kV breakers at Cecil due to increased short circuit fault duty as a result of the addition of the Prexy substation |  | APS (100%)              |
| b0586                              | Increase Whiteley 138 kV capacitor size to 44 MVAR   |  | APS (100%)              |
| b0587                              | Reconductor AP portion of Tidd – Carnegie 138 kV and Carnegie – Weirton 138 kV with 954 ACSR   |  | APS (100%)              |
| b0590                              | Replace #1 and #2 breakers at Charleroi 138 kV   |  | APS (100%)              |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |            |
|-------|---|--|------------|
| b0673 | Rebuild Elko – Carbon Center Junction using 230 kV construction |  | APS (100%) |
| b0681 | Replace 600/5 CT's at Franklin 138 kV                           |  | APS (100%) |
| b0682 | Replace 600/5 CT's at Whiteley 138 kV                           |  | APS (100%) |
| b0684 | Reconductor Guilford – South Chambersburg with 954 ACSR         |  | APS (100%) |

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                      | Responsible Customer(s)                       |
|------------------------------------|---|---|
| b0704                              | Install a third Cabot 500/138 kV transformer    | APS (74.36%) / DL (2.73%)<br>PENELEC (22.91%) |
| b0942                              | Replace Butler 138 kV breaker '#1 BANK'         | APS (100%)                                    |
| b0943                              | Replace Butler 138 kV breaker '#2 BANK'         | APS (100%)                                    |
| b0944                              | Replace Yukon 138 kV breaker 'Y-8'              | APS (100%)                                    |
| b0945                              | Replace Yukon 138 kV breaker 'Y-3'              | APS (100%)                                    |
| b0946                              | Replace Yukon 138 kV breaker 'Y-1'              | APS (100%)                                    |
| b0947                              | Replace Yukon 138 kV breaker 'Y-5'              | APS (100%)                                    |
| b0948                              | Replace Yukon 138 kV breaker 'Y-2'              | APS (100%)                                    |
| b0949                              | Replace Yukon 138 kV breaker 'Y-19'             | APS (100%)                                    |
| b0950                              | Replace Yukon 138 kV breaker 'Y-4'              | APS (100%)                                    |
| b0951                              | Replace Yukon 138 kV breaker 'Y-9'              | APS (100%)                                    |
| b0952                              | Replace Yukon 138 kV breaker 'Y-11'             | APS (100%)                                    |
| b0953                              | Replace Yukon 138 kV breaker 'Y-13'             | APS (100%)                                    |
| b0954                              | Replace Charleroi 138 kV breaker '#1 XFMR BANK' | APS (100%)                                    |

**Keystone Appalachian Transmission Company (cont.)**

| Required Enhancements | Annual Revenue Requirement                      | Responsible Customer(s) |
|-----------------------|---|-------------------------|
| b0955                 | Replace Yukon 138 kV breaker 'Y-7'              | APS (100%)              |
| b0959                 | Replace Charleroi 138 kV breaker '#2 XFMR BANK' | APS (100%)              |
| b0962                 | Replace Yukon 138 kV breaker 'Y-18'             | APS (100%)              |
| b0963                 | Replace Yukon 138 kV breaker 'Y-10'             | APS (100%)              |
| b0965                 | Replace Springdale 138 kV breaker '138E'        | APS (100%)              |
| b0969                 | Replace Springdale 138 kV breaker '138C'        | APS (100%)              |
| b0971                 | Replace Springdale 138 kV breaker '138F'        | APS (100%)              |
| b0973                 | Replace Springdale 138 kV breaker '138G'        | APS (100%)              |
| b0974                 | Replace Springdale 138 kV breaker '138V'        | APS (100%)              |
| b0975                 | Replace Armstrong 138 kV breaker 'BROOKVILLE'   | APS (100%)              |
| b0976                 | Replace Springdale 138 kV breaker '138P'        | APS (100%)              |
| b0978                 | Replace Springdale 138 kV breaker '138U'        | APS (100%)              |
| b0979                 | Replace Springdale 138 kV breaker '138D'        | APS (100%)              |
| b0980                 | Replace Springdale 138 kV breaker '138R'        | APS (100%)              |
| b0981                 | Replace Yukon 138 kV breaker 'Y-12'             | APS (100%)              |
| b0982                 | Replace Yukon 138 kV breaker 'Y-17'             | APS (100%)              |
| b0983                 | Replace Yukon 138 kV breaker 'Y-14'             | APS (100%)              |

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---------------------------|
| b0986                              | Replace Armstrong 138 kV breaker 'RESERVE BUS'   | APS (100%)                |
| b0987                              | Replace Yukon 138 kV breaker 'Y-16'  | APS (100%)                |
| b0988                              | Replace Springdale 138 kV breaker '138T'   | APS (100%)                |
| b0990                              | Change reclosing on Cabot 138 kV breaker 'C-9'   | APS (100%)                |
| b0997                              | Change reclosing on Cabot 138 kV breaker 'C-4'   | APS (100%)                |
| b0998                              | Change reclosing on Cabot 138 kV breaker 'C-1'   | APS (100%)                |
| b1022.3                            | Add static capacitors at Smith 138 kV  | APS (96.98%) / DL (3.02%) |
| b1022.4                            | Add static capacitors at North Fayette 138 kV  | APS (96.98%) / DL (3.02%) |
| b1022.5                            | Add static capacitors at South Fayette 138 kV  | APS (96.98%) / DL (3.02%) |
| b1022.6                            | Add static capacitors at Manifold 138 kV   | APS (96.98%) / DL (3.02%) |
| b1022.7                            | Add static capacitors at Houston 138 kV  | APS (96.98%) / DL (3.02%) |
| b1023.1                            | Install a 500/138 kV transformer at 502 Junction   | APS (100%)                |
| b1023.2                            | Construct a new Franklin - 502 Junction 138 kV line including a rebuild of the Whiteley - Franklin 138 kV line to double circuit | APS (100%)                |
| b1027                              | Increase the size of the shunt capacitors at Enon 138 kV   | APS (100%)                |
| b1159                              | Replace Peters 138 kV breaker 'Bethel P OCB'   | APS (100%)                |
| b1160                              | Replace Peters 138 kV breaker 'Cecil OCB'  | APS (100%)                |
| b1161                              | Replace Peters 138 kV breaker 'Union JctOCB'   | APS (100%)                |
| b1164                              | Replace Cecil 138 kV breaker 'Enlow OCB'   | APS (100%)                |

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)                     |
|------------------------------------|---|---|
| b1165                              | Replace Cecil 138 kV breaker 'South Fayette'                                      | APS (100%)                                  |
| b1243                              | Install a 138 kV capacitor at Potter Substation                                   | APS (100%)                                  |
| b1261                              | Replace Butler 138 kV breaker '1-2 BUS 138'                                       | APS (100%)                                  |
| b1383                              | Install 2nd 500/138 kV transformer at 502 Junction                                | APS (93.27%) / DL (5.39%) / PENELEC (1.34%) |
| b1403                              | Change reclosing on Yukon 138 kV breaker 'Y21 Shepler' to 1 shot at 15 seconds    | APS (100%)                                  |
| b1404                              | Replace the Kiski Valley 138 kV breaker 'Vandergrift' with a 40 kA breaker        | APS (100%)                                  |
| b1405                              | Change reclosing on Armstrong 138 kV breaker 'GARETTRJCT' at 1 shot at 15 seconds | APS (100%)                                  |
| b1406                              | Change reclosing on Armstrong 138 kV breaker 'KITANNING' to 1 shot at 15 seconds  | APS (100%)                                  |
| b1407                              | Change reclosing on Armstrong 138 kV breaker 'BURMA' to 1 shot at 15 seconds      | APS (100%)                                  |
| b1409                              | Replace the Cabot 138 kV breaker 'C9 Kiski Valley' with a 40 kA breaker           | APS (100%)                                  |

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b1672                              | Install a 230 kV breaker at Carbon Center   | APS (100%)  |
| b1825                              | Replace the 800 Amp line trap at Butler 138 kV Sub on the Cabot East 138 kV line  | APS (100%)  |
| b1839                              | Install additional 33 MVAR capacitors at Grand Point 138 kV SS and Guildford 138 kV SS  | APS (100%)  |
| b1941                              | Loop the Homer City-Handsome Lake 345 kV line into the Armstrong substation and install a 345/138 kV transformer at Armstrong           | APS (67.86%) / PENELEC (32.14%)   |
| b1964                              | Convert Moshannon substation to a 4 breaker 230 kV ring bus   | APS (41.06%) / DPL (6.68%) / JCPL (5.48%) / ME (10.70%) / NEPTUNE* (0.53%) / PECO (15.53%) / PPL (20.02%) |
| b1965                              | Install a 44 MVAR 138 kV capacitor at Luxor substation  | APS (100%)  |
| b1986                              | Upgrade the AP portion of the Elrama – Mitchell 138 kV line by replace breaker risers on the Mitchell 138 kV bus on the Elrama terminal | APS (100%)  |
| b2102                              | Replace Armstrong 138 kV breaker 'GARETTRJCT' with 40 kA rated breaker  | APS (100%)  |
| b2103                              | Replace Armstrong 138 kV breaker 'BURMA' with 40 kA rated breaker   | APS (100%)  |
| b2104                              | Replace Armstrong 138 kV breaker 'KITTANNING' with 40 kA rated breaker  | APS (100%)  |
| b2105                              | Replace Armstrong 138 kV breaker 'KISSINGERJCT' with 40 kA rated breaker  | APS (100%)  |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2124.3                            | Add new 138 kV line exit and install a 138/25 kV transformer   | APS (100%)              |
| b2124.5                            | Convert approximately 7.5 miles of 69 kV to 138 kV   | APS (100%)              |
| b2156                              | Install a 75 MVAR 230 kV capacitor at Shingletown Substation   | APS (100%)              |
| b2169                              | Replace/Raise structures on the Yukon-Smithton 138 kV line section to eliminate clearance de-rate            | APS (100%)              |
| b2170                              | Replace/Raise structures on the Smithton-Shepler Hill Jct 138 kV line section to eliminate clearance de-rate | APS (100%)              |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 2 – Baltimore Gas and Electric Co.  
Effective April 9, 2024  
Version 24.0.1

**SCHEDULE 12 – APPENDIX A**

**(2) Baltimore Gas and Electric Company**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2219                              | Install a 115 kV tie breaker at Wagner to create a separation from line 110535 and transformer 110-2  | BGE (100%)              |
| b2220                              | Install four 115 kV breakers at Chestnut Hill   | BGE (100%)              |
| b2221                              | Install an SPS to trip approximately 19 MW load at Green St. and Concord  | BGE (100%)              |
| b2307                              | Install a 230/115 kV transformer at Raphael Rd and construct approximately 3 miles of 115 kV line from Raphael Rd. to Joppatowne. Construct a 115 kV three breaker ring at Joppatowne | BGE (100%)              |
| b2308                              | Build approximately 3 miles of 115 kV underground line from Bestgate tap to Waugh Chapel. Create two breaker bay at Waugh Chapel to accommodate the new underground circuit           | BGE (100%)              |
| b2396                              | Build a new Camp Small 115 kV station and install 30 MVAR capacitor   | BGE (100%)              |

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2396.1                            | Install a tie breaker at Mays Chapel 115 kV substation  | BGE (100%)   |
| b2567                              | Upgrade the Riverside 115 kV substation strain bus conductors on circuits 115012 and 115011 with double bundled 1272 ACSR to achieve ratings of 491/577 MVA SN/SE on both transformer leads | BGE (100%)   |
| b2568                              | Reconductor Northwest – Northwest #2 115 kV 110574 substation tie circuit with 2167 ACSR to achieve ratings of 400/462 MVA SN/SE  | BGE (100%)   |
| b2752.6                            | Conastone 230 kV substation tie-in work (install a new circuit breaker at Conastone 230 kV and upgrade any required terminal equipment to terminate the new 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%) / PEPSCO (20.88%) |
| b2752.7                            | Reconductor/Rebuild the two Conastone – Northwest 230 kV lines and upgrade terminal equipment on both ends  | 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%) / PEPSCO (20.88%) |
| b2752.8                            | Replace the Conastone 230 kV ‘2322 B5’ breaker with a 63 kA breaker   | BGE (100%)   |

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s)   |
|------------------------------------|--|--|---|
| b2752.9                            | Replace the Conastone 230 kV '2322 B6' breaker with a 63 kA breaker  |  | BGE (100%)  |
| b2766.1                            | Upgrade substation equipment at Conastone 500 kV to increase facility rating to 2826 MVA normal and 3525 MVA emergency |  | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>           BGE (12.36%) / Dominion (24.57%) / DPL (25.17%) / JCPL (7.90%) / NEPTUNE* (0.88%) / PENELEC (1.60%) / PEPCO (12.32%) / PSEG (14.57%) / RE (0.63%)</p> |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2816                              | Re-connect the Crane – Windy Edge 110591 & 110592 115 kV circuits into the Northeast Substation with the addition of a new 115 kV 3-breaker bay | BGE (100%)  |
| b2992.1                            | Reconductor the Conastone to Graceton 230 kV 2323 & 2324 circuits. Replace 7 disconnect switches at Conastone substation                        | AEP (2.25%) / APS (2.58%) / BGE (44.61%) / ComEd (0.51%) / Dayton (0.40%) / DEOK (1.39%) / DL (0.14%) / Dominion (27.05%) / EKPC (0.52%) / PENELEC (0.02%) / PEPCO (20.53%) |
| b2992.2                            | Add Bundle conductor on the Graceton – Bagley – Raphael Road 2305 & 2313 230 kV circuits  | AEP (2.25%) / APS (2.58%) / BGE (44.61%) / ComEd (0.51%) / Dayton (0.40%) / DEOK (1.39%) / DL (0.14%) / Dominion (27.05%) / EKPC (0.52%) / PENELEC (0.02%) / PEPCO (20.53%) |
| b2992.3                            | Replacing short segment of substation conductor on the Windy Edge to Glenarm 110512 115 kV circuit  | AEP (2.25%) / APS (2.58%) / BGE (44.61%) / ComEd (0.51%) / Dayton (0.40%) / DEOK (1.39%) / DL (0.14%) / Dominion (27.05%) / EKPC (0.52%) / PENELEC (0.02%) / PEPCO (20.53%) |
| b2992.4                            | Reconductor the Raphael Road – Northeast 2315 & 2337 230 kV circuits  | AEP (2.25%) / APS (2.58%) / BGE (44.61%) / ComEd (0.51%) / Dayton (0.40%) / DEOK (1.39%) / DL (0.14%) / Dominion (27.05%) / EKPC (0.52%) / PENELEC (0.02%) / PEPCO (20.53%) |
| b3228                              | Replace two (2) relays at Center substation to increase ratings on the Westport to Center 110552 115 kV circuit                                 | BGE (100%)  |
| b3305                              | Replace Pumphrey 230/115 kV transformer   | BGE (100%)  |

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3668                              | Upgrade Windy Edge 115 kV substation conductor to increase ratings of the Windy Edge – Chesco Park 110501 115 kV line   | BGE (100%)  |
| b3770                              | Rebuild 1.4 miles of existing single circuit 230 kV tower line between BGE's Graceton substation to the Brunner Island PPL tie-line at the MD/PA state line to double circuit steel pole line with one circuit installed to uprate 2303 circuit | BGE (99.98%) / ME (0.01%) / PPL (0.01%)   |
| b3771                              | Reconductor two (2) 230 kV circuits from Conastone to Northwest #2  | BGE (70.70%) / PEPCO (29.30%)   |
| b3780.4                            | Peach Bottom to Graceton (BGE) 500 kV transmission line. New rating is 4503 MVA SN/ 5022 MVA SE   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     ATSI (0.03%) / BGE (28.40%) / DPL (0.02%) / Dominion (33.36%) / JCPL (6.36%) / NEPTUNE* (0.73%) / PEPCO (17.90%) / PSEG (12.69%) / RE (0.51%)</p> |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3780.5                            | Build 230 kV Solley Road substation and STATCOM. New STATCOM rating: 350 MVAR. Add 4x 230 kV breakers bays  | BGE (100%)   |
| b3780.6                            | Build 230 kV Granite substation and STATCOM. New STATCOM rating: 350 MVAR. Add 4x 230 kV breaker bays   | BGE (100%)   |
| b3780.7                            | Build Batavia Road 230 kV substation. Add 4x 230 kV breaker bays  | BGE (100%)   |
| b3780.8                            | Graceton 500 kV substation expansion: Add 3x 500 kV breaker bays, two 500/230 kV auto transformers, and one 250 MVAR capacitor. New transformer rating: 1559 MVA SN / 1940 MVA SE. New capacitor rating: 250 MVAR | BGE (81.92%) / PEPCO (18.08%)  |
| b3780.9                            | Build Graceton to Batavia Road 230 kV double circuit line. New rating: 1331 MVA SN/ 1594 MVA SE   | BGE (100%)   |
| b3780.10                           | Install new 350 MVAR capacitor at Conastone 500 kV substation   | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%) |
|                                    |   | <b>DFAX Allocation:</b><br>BGE (100.00%)   |
| b3780.13                           | Reconductor Batavia Road to Riverside 230 kV line. New rating: 1941 MVA SN / 2181 MVA SE  | BGE (51.24%) / PEPCO (48.76%)  |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3800.4                            | New Otter Creek to Doubs 500 kV line (MD Border - PSEG Demarcation Point). Rebuild and expand existing approximately 6 miles of Otter Creek - Conastone 230 kV line to become a double-circuit 500 kV and 230 kV lines. | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (13.16%) / BGE (0.79%) / Dominion (74.28%) / DPL (0.41%) / PECO (0.77%) / PEPCO (10.59%)</p> |
| b3800.26                           | Build High Ridge 500 kV substation - Three bay breaker and half configuration   | This upgrade ID is only for tracking purpose. Cost allocation details are available from b3800.27 ~ b3800.33   |
| b3800.27                           | High Ridge 500 kV substation (cut into Brighton - Waugh Chapel 500 kV line) - Waugh Chapel side   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     BGE (70.66%) / PEPCO (29.34%)</p>  |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s)  |
|------------------------------------|---|--|--|
| b3800.28                           | High Ridge 500 kV substation (cut into Brighton - Waugh Chapel 500 kV line) - Brighton side |  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (0.68%) / BGE (97.41%) / Dominion (1.91%)</p>  |
| b3800.29                           | High Ridge termination for the North Delta - High Ridge 500 kV line                         |  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     BGE (2.58%) / Dominion (59.28%) / DPL (0.02%) / PEPCO (28.48%) / PSEG (9.24%) / RE (0.40%)</p> |
| b3800.30                           | High Ridge - Install two 500/230 kV transformers  |  | BGE (62.75%) / PEPCO (37.25%)  |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b3800.32                           | Build new North Delta – High Ridge 500 kV line (approximately 59 miles)  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     BGE (2.58%) / Dominion (59.28%) / DPL (0.02%) / PEPCO (28.48%) / PSEG (9.24%) / RE (0.40%)</p>  |
| b3800.34                           | Rebuild 5012 (existing Peach Bottom - Conastone) (new Graceton - Conastone) 500 kV line on single circuit structures within existing right-of-way (ROW) and cut into North Delta 500 kV and Graceton 500 kV stations | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     BGE (12.36%) / Dominion (24.57%) / DPL (25.17%) / JCPL (7.90%) / NEPTUNE* (0.88%) / PENELEC (1.60%) / PEPCO (12.32%) / PSEG (14.57%) / RE (0.63%)</p> |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3800.36                           | Rebuild 5012 (existing Peach Bottom - Conastone) (new North Delta - Graceton BGE) 500 kV line on single circuit structures within existing ROW and cut into North Delta 500 kV and Graceton 500 kV stations | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     BGE (51.35%) / Dominion (32.44%) / DPL (0.01%) / JCPL (0.01%) / PEPCO (16.17%) / PSEG (0.02%)</p>   |
| b3800.37                           | Replace terminal equipment limitations at Conastone 500 kV - on the existing Peach Bottom – Conastone, future Graceton – Conastone, 500 kV line   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     BGE (12.36%) / Dominion (24.57%) / DPL (25.17%) / JCPL (7.90%) / NEPTUNE* (0.88%) / PENELEC (1.60%) / PEPCO (12.32%) / PSEG (14.57%) / RE (0.63%)</p> |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3800.41                           | Conastone - Brighton 500 kV line (5011 line) - Replace terminal equipment limitations at Conastone 500 kV substation | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     BGE (9.65%) / Dominion (63.04%) / DPL (0.02%) / PEPCO (27.29%)</p> |

\*Neptune Regional Transmission System, LLC

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 3 – Delmarva Power & Light Co.  
Effective April 9, 2024  
Version 25.0.1

**SCHEDULE 12 – APPENDIX A**

**(3) Delmarva Power & Light Company**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2288                              | Build a new 138 kV line from Piney Grove – Wattsville   | DPL (100%)  |
| b2395                              | Reconductor the Harmony – Chapel St 138 kV circuit  | DPL (100%)  |
| b2569                              | Replace Terminal equipment at Silverside 69 kV substation   | DPL (100%)  |
| b2633.7                            | Implement high speed relaying utilizing OPGW on Red Lion – Hope Creek 500 kV line   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p> |
| b2633.10                           | Interconnect the new Silver Run 230 kV substation with existing Red Lion – Cartanza and Red Lion – Cedar Creek 230 kV lines | AEC (8.01%) / BGE (1.94%) / DPL (12.99%) / JCPL (13.85%) / ME (5.88%) / NEPTUNE* (3.45%) / PECO (17.62%) / PPL (14.85%) / PSEG (20.79%) / RE (0.62%)  |

\*Neptune Regional Transmission System, LLC

**Delmarva Power & Light Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2695   | Rebuild Worcester – Ocean Pine 69 kV ckt. 1 to 1400A capability summer emergency   |  | DPL (100%) |
| b2946   | Convert existing Preston 69 kV substation to DPL’s current design standard of a 3-breaker ring bus   |  | DPL (100%) |
| b2947.1 | Upgrade terminal equipment at DPL’s Naamans substation (Darley - Naamans 69 kV)  |  | DPL (100%) |
| b2947.2 | Reconductor 0.11 mile section of Darley - Naamans 69 kV circuit  |  | DPL (100%) |
| b2948   | Upgrade terminal equipment at DPL’s Silverside Road substation (Dupont Edge Moor – Silver R. 69 kV)  |  | DPL (100%) |
| b2987   | Install a 30 MVAR capacitor bank at DPL’s Cool Springs 69 kV substation. The capacitor bank would be installed in two separate 15 MVAR stages allowing DPL operational flexibility |  | DPL (100%) |
| b3143.1 | Reconductor the Silverside Road – Darley 69 kV circuit   |  | DPL (100%) |
| b3143.2 | Reconductor the Darley – Naamans 69 kV circuit   |  | DPL (100%) |
| b3143.3 | Replace three (3) existing 1200 A disconnect switches with 2000 A disconnect switches and install three (3) new 2000 A disconnect switches at Silverside 69 kV station             |  | DPL (100%) |

**Delmarva Power & Light Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b3143.4 | Replace two (2) 1200 A disconnect switches with 2000 A disconnect switches. Replace existing 954 ACSR and 500 SDCU stranded bus with two (2) 954 ACSR stranded bus. Reconfigure four (4) CTs from 1200 A to 2000 A and install two (2) new 2000 A disconnect switches and two (2) new 954 ACSR stranded bus at Naamans 69 kV station  |  | DPL (100%) |
| b3143.5 | Replace four (4) 1200 A disconnect switches with 2000 A disconnect switches. Replace existing 954 ACSR and 1272 MCM AL stranded bus with two (2) 954 ACSR stranded bus. Reconfigure eight (8) CTs from 1200 A to 2000 A and install four (4) new 2000 A (310 MVA SE / 351 MVA WE) disconnect switches and two (2) new 954 ACSR (331 MVA SE / 369 MVA WE) stranded bus at Darley 69 kV station |  | DPL (100%) |
| b3155   | Rebuild approx. 12 miles of Wye Mills – Stevensville line   |  | DPL (100%) |
| b3224   | Replace a disconnect switch and reconductor a short span of the Mt. Pleasant – Middletown tap 138 kV line   |  | DPL (100%) |

**Delmarva Power & Light Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b3326   | Rebuild the Vienna - Nelson 138 kV line  |  | DPL (100%) |
| b3327   | Upgrade the disconnect switch at Kent 69 kV station  |  | DPL (100%) |
| b3328   | Upgrade the disconnect switch and CT at Vienna 138 kV station  |  | DPL (100%) |
| b3329   | Rebuild the Farmview - Milford 138 kV line   |  | DPL (100%) |
| b3330   | Rebuild the Farmview - S. Harrington 138 kV line   |  | DPL (100%) |
| b3331   | Upgrade stranded bus and relay at Seaford 138 kV station   |  | DPL (100%) |
| b3332   | Rebuild the Steel - Milford 230 kV line  |  | DPL (100%) |
| b3669.1 | Replace terminal equipment (stranded bus, disconnect switch and circuit breaker) at Church 138 kV substation   |  | DPL (100%) |
| b3669.2 | Replace terminal equipment (circuit breaker) at Townsend 138 kV substation   |  | DPL (100%) |
| b3670   | Upgrade terminal equipment on the Loretto – Fruitland 69 kV circuit. Replace the 477 ACSR stranded bus on the 6711 line terminal inside Loretto 69 KV substation and the 500 SDCU stranded bus on the 6711 line terminal inside 69 kV Fruitland substation with 954 ACSR conductor |  | DPL (100%) |
| b3688   | Replace the 4/0 SDCU stranded bus with 954 ACSR and a 600 A disconnect switch with a 1200 A disconnect switch on the 6716 line terminal inside Todd substation on Preston – Todd 69 kV line  |  | DPL (100%) |

**Delmarva Power & Light Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |  |  |   |
|----------|--|--|---|
| b3749    | Rebuild the New Church - Piney Grove 138 kV line                                 |  | DPL (100%)  |
| b3800.39 | Red Lion - Hope Creek 500 kV - Replace terminal equipment at Red Lion substation |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> AEC (0.02%) / BGE (22.89%) / Dominion (48.61%) / DPL (9.46%) / JCPL (0.03%) / PEPCO (18.96%) / PSEG (0.03%)</p> |

\*Neptune Regional Transmission System, LLC

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 5 – Metropolitan Edison Co.  
Effective April 9, 2024  
Version 28.0.1

**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 align="center"><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p align="center"><b>DFAX Allocation:</b><br/>                     BGE (20.30%) / PPL (79.70%)</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 40 kA breaker | ME (100%)   |
| b2006.5                            | Replace the South Reading 69 kV ‘82842’ breaker with 40 kA 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%)  |

\* Neptune Regional Transmission System, LLC

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2452.1                            | Reconductor<br>Hunterstown - Oxford<br>115 kV line  | APS (8.30%) / BGE (14.70%)<br>/ DEOK (0.48%) / Dominion<br>(36.92%) / ME (23.85%) /<br>PEPCO (15.75%)  |
| b2452.3                            | Replace the Hunterstown<br>115 kV breaker '96192'<br>with 40 kA   | ME (100%)  |
| b2588                              | Install a 36.6 MVAR 115<br>kV capacitor at North<br>Bangor substation   | ME (100%)  |
| b2637                              | Convert Middletown<br>Junction 230 kV<br>substation to nine bay<br>double breaker<br>configuration.   | ME (100%)  |
| b2644                              | Install a 28.8 MVAR<br>115 kV capacitor at the<br>Mountain substation   | ME (100%)  |
| b2688.1                            | Lincoln Substation:<br>Upgrade the bus<br>conductor and replace<br>CTs  | AEP (12.91%) / APS<br>(19.04%) / ATSI (1.24%) /<br>ComEd (0.35%) / Dayton<br>(1.45%) / DEOK (2.30%) / DL<br>(1.11%) / Dominion (44.85%) /<br>EKPC (0.78%) / PEPCO<br>(15.85%) / RE (0.12%) |
| b2688.2                            | Germantown Substation:<br>Replace 138/115 kV<br>transformer with a<br>135/180/224 MVA bank.<br>Replace Lincoln 115 kV<br>breaker, install new 138<br>kV breaker, upgrade bus<br>conductor and<br>adjust/replace CTs | AEP (12.91%) / APS<br>(19.04%) / ATSI (1.24%) /<br>ComEd (0.35%) / Dayton<br>(1.45%) / DEOK (2.30%) / DL<br>(1.11%) / Dominion (44.85%) /<br>EKPC (0.78%) / PEPCO<br>(15.85%) / RE (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%) / PEPSCO (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%) / PEPSCO (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%)  |
| 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%)  |
| b3136                              | Replace bus conductor at Smith 115 kV substation  | ME (100%)  |
| b3145                              | Rebuild the Hunterstown – Lincoln 115 kV Line No. 962 (approx. 2.6 miles). Upgrade limiting terminal equipment at Hunterstown and Lincoln | AEP (16.60%) / APS (8.09%) / BGE (2.74%) / Dayton (2.00%) / DEOK (0.35%) / DL (1.31%) / Dominion (52.77%) / EKPC (1.54%) / OVEC (0.06%) / PEPSCO (14.54%)  |
| b3311                              | Install a 120.75 kV 79.4 MVAR capacitor bank at Yorkana 115 kV  | ME (100%)  |

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

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)    |
|------------------------------------|--|----------------------------|
| b3671                              | Rebuild approximately 3.6 miles of North Boyertown - West Boyertown 69 kV line. Upgrade terminal equipment (circuit breaker, disconnect switches, substation conductor) and relays at North Boyertown and West Boyertown 69 kV substation              | ME (100%)                  |
| b3715.3                            | Install a new Allen four breaker ring bus switchyard near the existing ME Allen substation on adjacent property presently owned by FirstEnergy. Terminate the Round Top-Allen and the Allen-PPGI (PPG Industries) 115 kV lines into the new switchyard | ME (100%)                  |
| b3768                              | Rebuild/Reconductor the Germantown – Lincoln 115 kV line. Upgrade limiting terminal equipment at Lincoln, Germantown and Straban stations  | ME (100%)                  |
| b3769                              | Install second TMI 500/230 kV transformer with additional 500 kV and 230 kV bus expansions   | ME (45.74%) / PPL (54.26%) |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3800.2                            | Break the existing Three Mile Island - Peach Bottom 500 kV line and terminate into adjacent Otter Creek 500 kV switchyard | <p style="text-align: center;"><b>Load-Ratio Share Allocation:</b></p> <p>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p style="text-align: center;"><b>DFAX Allocation:</b></p> <p>APS (13.16%) / BGE (0.71%) / Dominion (74.28%) / DPL (0.36%) / PECO (0.68%) / PEPCO (10.59%) / PPL (0.22%)</p> |

\* Neptune Regional Transmission System, LLC

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

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3800.6                            | Replace terminal equipment at TMI Peach Bottom - TMI 500 kV line                                   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (7.41%) / BGE (15.50%) / Dominion (45.08%) / DPL (2.46%) / JCPL (0.80%) / ME (0.34%) / NEPTUNE* (0.09%) / PECO (10.72%) / PEPCO (15.72%) / PPL (0.43%) / PSEG (1.39%) / RE (0.06%)</p> |
| b3800.10                           | Rebuild the Germantown - Lincoln 115 kV line for 230 kV double circuit construction                | ME (100%)  |
| b3800.11                           | Rebuild the Hunterstown - Lincoln 115 kV line for 230 kV double circuit construction               | ME (100%)  |
| b3800.12                           | Rebuild the Germantown - Carroll 138 kV line for 230 kV double circuit construction (MAIT Section) | ME (100%)  |
| b3800.14                           | Construct new 230 kV Hunterstown - Carroll line (MAIT Section)                                     | APS (99.86%) / ME (0.14%)  |

\* Neptune Regional Transmission System, LLC

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

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |  |  |                           |
|----------|--|--|---------------------------|
| b3800.18 | Add a new 230 kV breaker at the Hunterstown 230 kV substation for the new Hunterstown - Carroll 230 kV termination |  | APS (99.86%) / ME (0.14%) |
| b3800.19 | Reconductor Lincoln - Orrtanna 115 kV line   |  | ME (100%)                 |
| b3800.22 | Install DTT relaying at Straban 115 kV substation  |  | ME (100%)                 |
| b3800.23 | Revise Relay Settings at Lincoln 115 kV substation   |  | ME (100%)                 |
| b3800.24 | Revise Relay Settings at Germantown 115 kV substation  |  | ME (100%)                 |

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**SCHEDULE 12 – APPENDIX A**

**(7) Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone**

| Required Transmission Enhancements  | Annual Revenue Requirement | Responsible Customer(s) |
|---|----------------------------|-------------------------|
| b2212 Shawville Substation: Relocate 230 kV and 115 kV controls from the generating station building to new control building                        |                            | PENELEC (100%)          |
| b2293 Replace the Erie South 115 kV breaker 'Buffalo Rd' with 40 kA breaker   |                            | PENELEC (100%)          |
| b2294 Replace the Johnstown 115 kV breaker 'Bon Aire' with 40 kA breaker  |                            | PENELEC (100%)          |
| b2302 Replace the Erie South 115 kV breaker 'French #2' with 40 kA breaker  |                            | PENELEC (100%)          |
| b2304 Replace the substation conductor and switch at South Troy 115 kV substation   |                            | PENELEC (100%)          |
| b2371 Install 75 MVAR capacitor at the Erie East 230 kV substation  |                            | PENELEC (100%)          |
| b2441 Install +250/-100 MVAR SVC at the Erie South 230 kV station   |                            | PENELEC (100%)          |
| b2442 Install three 230 kV breakers on the 230 kV side of the Lewistown #1, #2 and #3 transformers  |                            | PENELEC (100%)          |
| b2450 Construct a new 115 kV line from Central City West to Bedford North   |                            | PENELEC (100%)          |
| b2463 Rebuild and reconductor 115 kV line from East Towanda to S. Troy and upgrade terminal equipment at East Towanda, Tennessee Gas and South Troy |                            | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2494                              | Construct Warren 230 kV ring bus and install a second Warren 230/115 kV transformer  | PENELEC (100%)          |
| b2552.1                            | Reconductor the North Meshoppen – Oxbow-Lackawanna 230 kV circuit and upgrade terminal equipment (MAIT portion)            | PENELEC (100.00%)       |
| b2573                              | Replace the Warren 115 kV ‘B12’ breaker with a 40 kA breaker   | PENELEC (100%)          |
| b2587                              | Reconfigure Pierce Brook 345 kV station to a ring bus and install a 125 MVAR shunt reactor at the station                  | PENELEC (100%)          |
| b2621                              | Replace relays at East Towanda and East Sayre 115 kV substations (158/191 MVA SN/SE)                                       | PENELEC (100%)          |
| b2677                              | Replace wave trap, bus conductor and relay at Hilltop 115 kV substation. Replace relays at Prospect and Cooper substations | PENELEC (100%)          |
| b2678                              | Convert the East Towanda 115 kV substation to breaker and half configuration   | PENELEC (100%)          |
| b2679                              | Install a 115 kV Venango Jct. line breaker at Edinboro South   | PENELEC (100%)          |
| b2680                              | Install a 115 kV breaker on Hooversville #1 115/23 kV transformer  | PENELEC (100%)          |
| b2681                              | Install a 115 kV breaker on the Eclipse #2 115/34.5 kV transformer   | PENELEC (100%)          |

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

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |                |
|-------|---|--|----------------|
| b2682 | Install two 21.6 MVAR capacitors at the Shade Gap 115 kV substation                     |  | PENELEC (100%) |
| b2683 | Install a 36 MVAR 115 kV capacitor and associated equipment at Morgan Street substation |  | PENELEC (100%) |
| b2684 | Install a 36 MVAR 115 kV capacitor at Central City West substation                      |  | PENELEC (100%) |
| b2685 | Install a second 115 kV 3000A bus tie breaker at Hooversville substation                |  | PENELEC (100%) |
| b2735 | Replace the Warren 115 kV 'NO. 2 XFMR' breaker with 40 kA breaker                       |  | PENELEC (100%) |
| b2736 | Replace the Warren 115 kV 'Warren #1' breaker with 40 kA breaker                        |  | PENELEC (100%) |
| b2737 | Replace the Warren 115 kV 'A TX #1' breaker with 40 kA breaker                          |  | PENELEC (100%) |
| b2738 | Replace the Warren 115 kV 'A TX #2' breaker with 40 kA breaker                          |  | PENELEC (100%) |
| b2739 | Replace the Warren 115 kV 'Warren #2' breaker with 40 kA breaker                        |  | PENELEC (100%) |
| b2740 | Revise the reclosing of the Hooversville 115 kV 'Ralphton' breaker                      |  | PENELEC (100%) |
| b2741 | Revise the reclosing of the Hooversville 115 kV 'Statler Hill' breaker                  |  | PENELEC (100%) |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2743.2                            | Tie in new Rice substation to Conemaugh – Hunterstown 500 kV  | 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%) |
| b2743.3                            | Upgrade terminal equipment at Conemaugh 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%) |
| b2748                              | Install two 28 MVAR capacitors at Tiffany 115 kV substation   | PENELEC (100%)  |
| b2767                              | Construct a new 345 kV breaker string with three (3) 345 kV breakers at Homer City and move the North autotransformer connection to this new breaker string | PENELEC (100%)  |
| b2803                              | Reconductor 3.7 miles of the Bethlehem – Loretto 46 kV circuit and replace terminal equipment at Summit 46 kV   | PENELEC (100%)  |
| b2804                              | Install a new relay and replace 4/0 CU bus conductor at Huntingdon 46 kV station, on the Huntingdon – C tap 46 kV circuit                                   | PENELEC (100%)  |
| b2805                              | Install a new relay and replace 4/0 CU & 250 CU substation conductor at Hollidaysburg 46 kV station, on the Hollidaysburg – HCR Tap 46 kV circuit           | PENELEC (100%)  |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2806                              | Install a new relay and replace meter at the Raystown 46 kV substation, on the Raystown – Smithfield 46 kV circuit  | PENELEC (100%)          |
| b2807                              | Replace the CHPV and CRS relay, and adjust the IAC overcurrent relay trip setting; or replace the relay at Eldorado 46 kV substation, on the Eldorado – Gallitzin 46 kV circuit         | PENELEC (100%)          |
| b2808                              | Adjust the JBC overcurrent relay trip setting at Raystown 46 kV, and replace relay and 4/0 CU bus conductor at Huntingdon 46 kV substations, on the Raystown – Huntingdon 46 kV circuit | PENELEC (100%)          |
| b2865                              | Replace Seward 115 kV breaker "Jackson Road" with 63 kA breaker   | PENELEC (100%)          |
| b2866                              | Replace Seward 115 kV breaker "Conemaugh N." with 63 kA breaker   | PENELEC (100%)          |
| b2867                              | Replace Seward 115 kV breaker "Conemaugh S." with 63 kA breaker   | PENELEC (100%)          |
| b2868                              | Replace Seward 115 kV breaker "No.8 Xfmr" with 63 kA breaker  | PENELEC (100%)          |
| b2944                              | Install two 345 kV 80 MVAR shunt reactors at Mainesburg station   | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2951                              | Seward, Blairsville East, Shelocta work  | PENELEC (100%)          |
| b2951.1                            | Upgrade Florence 115 kV line terminal equipment at Seward SS   | PENELEC (100%)          |
| b2951.2                            | Replace Blairsville East / Seward 115 kV line tuner, coax, line relaying and carrier set at Shelocta SS  | PENELEC (100%)          |
| b2951.3                            | Replace Seward / Shelocta 115 kV line CVT, tuner, coax, and line relaying at Blairsville East SS   | PENELEC (100%)          |
| b2952                              | Replace the North Meshoppen #3 230/115 kV transformer eliminating the old reactor and installing two breakers to complete a 230 kV ring bus at North Meshoppen   | PENELEC (100%)          |
| b2953                              | Replace the Keystone 500 kV breaker "NO. 14 Cabot" with 50 kA breaker  | PENELEC (100%)          |
| b2954                              | Replace the Keystone 500 kV breaker "NO. 16 Cabot" with 50 kA breaker  | PENELEC (100%)          |
| b2984                              | Reconfigure the bus at Glory and install a 50.4 MVAR 115 kV capacitor  | PENELEC (100%)          |
| b3007.2                            | Reconductor the Blairsville East to Social Hall 138 kV line and upgrade terminal equipment - PENELEC portion. 4.8 miles total. The new conductor will be 636 ACSS replacing the existing 636 ACSR conductor. At Blairsville East, the wave trap and breaker disconnects will be replaced | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3008                              | Upgrade Blairsville East 138/115 kV transformer terminals. This project is an upgrade to the tap of the Seward – Shelocta 115 kV line into Blairsville substation. The project will replace the circuit breaker and adjust relay settings | PENELEC (100%)          |
| b3009                              | Upgrade Blairsville East 115 kV terminal equipment. Replace 115 kV circuit breaker and disconnects  | PENELEC (100%)          |
| b3014                              | Replace the existing Shelocta 230/115 kV transformer and construct a 230 kV ring bus  | PENELEC (100%)          |
| b3016                              | Upgrade terminal equipment at Corry East 115 kV to increase rating of Four Mile to Corry East 115 kV line. Replace bus conductor  | PENELEC (100%)          |
| b3017.1                            | Rebuild Glade to Warren 230 kV line with hi-temp conductor and substation terminal upgrades. 11.53 miles. New conductor will be 1033 ACSS. Existing conductor is 1033 ACSR  | PENELEC (100%)          |
| b3017.2                            | Glade substation terminal upgrades. Replace bus conductor, wave traps, and relaying   | PENELEC (100%)          |
| b3017.3                            | Warren substation terminal upgrades. Replace bus conductor, wave traps, and relaying  | PENELEC (100%)          |
| b3022                              | Replace Saxton 115 kV breaker ‘BUS TIE’ with a 40 kA breaker  | PENELEC (100%)          |

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

| Required Transmission Enhancements  | Annual Revenue Requirement | Responsible Customer(s) |
|---|----------------------------|-------------------------|
| b3024<br>Upgrade terminal equipment at Corry East 115 kV to increase rating of Warren to Corry East 115 kV line.<br>Replace bus conductor |                            | PENELEC (100%)          |
| b3043<br>Install one 115 kV 36 MVAR capacitor at West Fall 115 kV substation  |                            | PENELEC (100%)          |
| b3073<br>Replace the Blairsville East 138/115 kV transformer and associated equipment such as breaker disconnects and bus conductor       |                            | PENELEC (100%)          |
| b3077<br>Reconductor the Franklin Pike B – Wayne 115 kV line (6.78 miles)   |                            | PENELEC (100%)          |
| b3078<br>Reconductor the 138 kV bus and replace the line trap, relays Morgan Street.<br>Reconductor the 138 kV bus at Venango Junction    |                            | PENELEC (100%)          |
| b3082<br>Construct 4-breaker 115 kV ring bus at Geneva  |                            | PENELEC (100%)          |
| b3137<br>Rebuild 20 miles of the East Towanda – North Meshoppen 115 kV line   |                            | PENELEC (100%)          |
| b3144<br>Upgrade bus conductor and relay panels of the Jackson Road – Nanty Glo 46 kV SJN line  |                            | PENELEC (100%)          |
| b3144.1<br>Upgrade line relaying and substation conductor on the 46 kV Nanty Glo line exit at Jackson Road substation                     |                            | PENELEC (100%)          |
| b3144.2<br>Upgrade line relaying and substation conductor on the 46 kV Jackson Road line exit at Nanty Glo substation                     |                            | PENELEC (100%)          |
| b3154<br>Install one (1) 13.2 MVAR 46 kV capacitor at the Logan substation  |                            | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3231                              | Replace the existing No. 2 cap bank breaker at Huntingdon substation with a new breaker with higher interrupting capability   | PENELEC (100%)          |
| b3232                              | Replace the existing Williamsburg, ALH (Hollidaysburg) and bus section breaker at the Altoona substation with a new breaker with higher interrupting capability   | PENELEC (100%)          |
| b3233                              | Install one (1) 34 MVAR 115 kV shunt reactor and breaker. Install one (1) 115 kV circuit breaker to expand the substation to a 4-breaker ring bus   | PENELEC (100%)          |
| b3237                              | Install two (2) 46 kV 6.12 MVAR capacitors effective at Mt. Union   | PENELEC (100%)          |
| b3245                              | Construct a new breaker-and-a-half substation near Tiffany substation. All transmission assets and lines will be relocated to the new substation. The two (2) distribution transformers will be fed via two (2) dedicated 115 kV feeds to the existing Tiffany substation | PENELEC (100%)          |
| b3306                              | Install a second 125 MVAR 345 kV shunt reactor and associated equipment at Pierce Brook substation. Install a 345 kV breaker on the high side of the 345/230 kV transformer #1  | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3665                              | Replace several pieces of 1033.5 AAC substation conductor at East Towanda 230 kV station on East Towanda - Canyon 230 kV line   | PENELEC (100%)          |
| b3666                              | Install dual reactors and expand existing ring bus at Marshall 230 kV substation  | PENELEC (100%)          |
| b3667                              | Install second 230/115 kV transformer at Pierce Brook substation  | PENELEC (100%)          |
| b3672                              | Rebuild 2.5 miles of East Towanda-North Meshoppen 115 kV line with 1113 ACSS conductor using single circuit construction. Upgrade all terminal equipment to the rating of 1113 ACSS                               | PENELEC (100%)          |
| b3673                              | Replace the relay panels at Bethlehem 33 46 kV substation on the Cambria Prison line  | PENELEC (100%)          |
| b3708                              | Replace the Shawville 230/115/17.2 kV transformer with a new Shawville 230/115 kV transformer and associated facilities. Replace the plant's No. 2B 115/17.2 kV transformer with a larger 230/17.2 kV transformer | PENELEC (100%)          |
| b3750                              | Upgrade Seward terminal equipment of Seward – Blairsville 115 kV line to increase the line rating such that the transmission line conductor is the limiting component   | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3751                              | Rebuild 6.4 miles of Roxbury – Shade Gap 115 kV line from Roxbury to the AE1-071 115 kV ring bus with single circuit 115 kV construction  |                         |
|                                    |   | PENELEC (100%)          |
| b3752                              | Rebuild 7.2 miles of the Shade Gap – AE1-071 115 kV line section of the Roxbury – Shade Gap 115 kV line   |                         |
|                                    |   | PENELEC (100%)          |
| b3753                              | Replace the Tyrone North 115 /46 kV transformer with a new standard 75 MVA top rated bank and upgrade the entire terminal to minimum 100 MVA capability for both SN and SE rating   |                         |
|                                    |   | PENELEC (100%)          |
| b3754                              | Construct a new three breaker ring bus to tie into the Warrior Ridge - Belleville 46 kV D line and the 1LK line at Maclane Tap  |                         |
|                                    |   | PENELEC (100%)          |
| b3765                              | Purchase one 80 MVAR 345 kV spare reactor, to be located at the Mainesburg 345 kV station   |                         |
|                                    |   | PENELEC (100%)          |
| b3783                              | Cut and remove the 345 kV and 230 kV generator lead lines at Homer City station. Install new station service supply, separate AC station service, separate protection and controls schemes, and review and adjust relay protection settings |                         |
|                                    |   | PENELEC (100%)          |

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Effective April 9, 2024  
Version 26.0.1

**SCHEDULE 12 – APPENDIX A**

**(8) PECO Energy Company**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2130                              | Replace Waneeta 138 kV breaker '15' with 63 kA rated breaker   | PECO (100%)             |
| b2131                              | Replace Waneeta 138 kV breaker '35' with 63 kA rated breaker   | PECO (100%)             |
| b2132                              | Replace Waneeta 138 kV breaker '875' with 63 kA rated breaker  | PECO (100%)             |
| b2133                              | Replace Waneeta 138 kV breaker '895' with 63 kA rated breaker  | PECO (100%)             |
| b2134                              | Plymouth Meeting 230 kV breaker '115' with 63 kA rated breaker   | PECO (100%)             |
| b2222                              | Install a second Eddystone 230/138 kV transformer  | PECO (100%)             |
| b2222.1                            | Replace the Eddystone 138 kV #205 breaker with 63 kA breaker   | PECO (100%)             |
| b2222.2                            | Increase Rating of Eddystone #415 138 kV Breaker   | PECO (100%)             |
| b2236                              | 50 MVAR reactor at Buckingham 230 kV   | PECO (100%)             |
| b2527                              | Replace Whitpain 230 kV breaker '155' with 80 kA breaker   | PECO (100%)             |
| b2528                              | Replace Whitpain 230 kV breaker '525' with 80 kA breaker   | PECO (100%)             |
| b2529                              | Replace Whitpain 230 kV breaker '175' with 80 kA breaker   | PECO (100%)             |
| b2549                              | Replace terminal equipment inside Chichester substation on the 220-36 (Chichester – Eddystone) 230 kV line | PECO (100%)             |

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2550                              | Replace terminal equipment inside Nottingham substation on the 220-05 (Nottingham – Daleville- Bradford) 230 kV line         | PECO (100%)  |
| b2551                              | Replace terminal equipment inside Llanerch substation on the 130-45 (Eddystone to Llanerch) 138 kV line                      | PECO (100%)  |
| b2572                              | Replace the Peach Bottom 500 kV ‘#225’ breaker with a 63 kA breaker  | PECO (100%)  |
| b2694                              | Increase ratings of Peach Bottom 500/230 kV transformer to 1479 MVA normal/1839 MVA emergency                                | AEC (3.97%)/ AEP (5.77%)/ APS (4.27%)/ ATSI (6.15%)/ BGE (1.63%)/ ComEd (0.72%)/ Dayton (1.06%)/ DEOK (1.97%)/ DL (2.25%)/ Dominion (0.35%)/ DPL (14.29%)/ ECP** (0.69%)/ EKPC (0.39%)/ HTP*** (0.96%)/ JCPL (6.84%) MetEd (3.28%)/ NEPTUNE* (2.14%)/ PECO (16.42%)/ PENELEC (3.94%)/ PPL (8.32%)/ PSEG (14.13%)/ RE (0.44%) |
| b2752.2                            | Tie in new Furnace Run substation to Peach Bottom – TMI 500 kV   | 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%)  |
| b2752.3                            | Upgrade terminal equipment and required relay communication at Peach Bottom 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%)  |

\*Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2766.2                            | Upgrade substation equipment at Peach Bottom 500 kV to increase facility rating to 2826 MVA normal and 3525 MVA emergency | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>           AEC (11.03%) BGE (37.40%) / DPL (22.91%) / PEPCO (28.66%)</p> |

\*Neptune Regional Transmission System, LLC

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2774                              | Reconductor the Emilie - Falls 138 kV line, and replace station cable and relay |                         |
| b2775                              | Reconductor the Falls - U.S. Steel 138 kV line                                  | PECO (100%)             |
| b2850                              | Replace the Waneeta 230 kV "285" with 63 kA breaker                             | PECO (100%)             |
| b2852                              | Replace the Chichester 230 kV "195" with 63 kA breaker                          | PECO (100%)             |
| b2854                              | Replace the North Philadelphia 230 kV "CS 775" with 63 kA breaker               | PECO (100%)             |
| b2855                              | Replace the North Philadelphia 230 kV "CS 885" with 63 kA breaker               | PECO (100%)             |
| b2856                              | Replace the Parrish 230 kV "CS 715" with 63 kA breaker                          | PECO (100%)             |
| b2857                              | Replace the Parrish 230 kV "CS 825" with 63 kA breaker                          | PECO (100%)             |
| b2858                              | Replace the Parrish 230 kV "CS 935" with 63 kA breaker                          | PECO (100%)             |
| b2859                              | Replace the Plymouth Meeting 230 kV "215" with 63 kA breaker                    | PECO (100%)             |
| b2860                              | Replace the Plymouth Meeting 230 kV "235" with 63 kA breaker                    | PECO (100%)             |
| b2861                              | Replace the Plymouth Meeting 230 kV "325" with 63 kA breaker                    | PECO (100%)             |
| b2862                              | Replace the Grays Ferry 230 kV "705" with 63 kA breaker                         | PECO (100%)             |

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2863                              | Replace the Grays Ferry 230 kV "985" with 63 kA breaker   | PECO (100%)             |
| b2864                              | Replace the Grays Ferry 230 kV "775" with 63 kA breaker   | PECO (100%)             |
| b2923                              | Replace the China Tap 230 kV 'CS 15' breaker with a 63 kA breaker   | PECO (100%)             |
| b2924                              | Replace the Emilie 230 kV 'CS 15' breaker with 63 kA breaker  | PECO (100%)             |
| b2925                              | Replace the Emilie 230 kV 'CS 25' breaker with 63 kA breaker  | PECO (100%)             |
| b2926                              | Replace the Chichester 230 kV '215' breaker with 63 kA breaker  | PECO (100%)             |
| b2927                              | Replace the Plymouth Meeting 230 kV '125' breaker with 63 kA breaker  | PECO (100%)             |
| b2985                              | Replace the 230 kV CB #225 at Linwood Substation (PECO) with a double circuit breaker (back to back circuit breakers in one device) | PECO (100%)             |
| b3041                              | Peach Bottom – Furnace Run 500 kV terminal equipment  | PECO (100%)             |
| b3120                              | Replace the Whitpain 230 kV breaker "125" with a 63 kA breaker  | PECO (100%)             |
| b3138                              | Move 2 MVA load from the Roxborough to Bala substation. Adjust the tap setting on the Master 138/69 kV transformer #2               | PECO (100%)             |
| b3146                              | Upgrade the Richmond 69 kV breaker "140" with 40 kA breaker   | PECO (100%)             |

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3697                              | Replace station conductor and metering inside Whitpain and Plymouth 230 kV substations to increase the ratings of the Whitpain – Plymouth 230 kV line | PECO (100%)   |
| b3728.2                            | Replace 4 meters and bus work inside Peach Bottom substation on the 500 kV Line 5012 (Conastone – Peach Bottom)                                       | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (3.94%) / ATSI (0.03%) / BGE (20.78%) / DL (0.01%) / DPL (0.02%) / Dominion (31.75%) / JCPL (6.99%) / NEPTUNE* (0.80%) / PECO (0.98%) / PEPCO (17.52%) / PPL (2.69%) / PSEG (13.93%) / RE (0.56%)</p> |

\*Neptune Regional Transmission System, LLC

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3780.1                            | Peach Bottom North upgrades – 500 kV substation work. Add 3x 500 kV breakers to form a breaker-and-a-half bay  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     ATSI (0.02%) / BGE (28.40%) / Dominion (33.36%) / DPL (0.02%) / JCPL (6.36%) / NEPTUNE* (0.73%) / PECO (0.01%) / PEPCO (17.90%) / PSEG (12.69%) / RE (0.51%)</p> |
| b3780.2                            | Peach Bottom to Graceton (PECO) new 500 kV transmission line. New rating: 4503 MVA SN/5022 MVA SE  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     ATSI (0.02%) / BGE (28.40%) / Dominion (33.36%) / DPL (0.02%) / JCPL (6.36%) / NEPTUNE* (0.73%) / PECO (0.01%) / PEPCO (17.90%) / PSEG (12.69%) / RE (0.51%)</p> |
| b3780.3                            | West Cooper substation work includes 3 breaker ring, 500/230 kV transformer, control house, substation build, and reconfigure Cooper distribution station feed. New transformer rating: 1559 MVA SN/ 1940 MVA SE | DPL (41.52%) / PECO (58.48%)   |

\*Neptune Regional Transmission System, LLC



**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b3800.5                            | Replace terminal equipment at Peach Bottom on Peach Bottom - TMI 500 kV line | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     AEC (6.40%) / BGE (20.32%) / DPL (9.76%) / JCPL (17.57%) / NEPTUNE* (1.73%) / PECO (6.33%) / PEPCO (7.48%) / PSEG (29.15%) / RE (1.26%)</p> |
| b3800.31                           | Build new North Delta – High Ridge 500 kV line                               | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     Dominion (60.85%) / DPL (0.01%) / PECO (0.01%) / PEPCO (29.24%) / PSEG (9.48%) / RE (0.41%)</p>   |

\*Neptune Regional Transmission System, LLC

**PECO Energy Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |  |  |  |
|----------|--|--|--|
| b3800.35 | Rebuild 5012 (existing Peach Bottom - Conastone) (new North Delta - Graceton PECO) 500 kV line on single circuit structures within existing ROW and cut into North Delta 500 kV and Graceton 500 kV stations                         |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> BGE (49.42%) / Dominion (31.22%) / DPL (0.01%) / JCPL (0.01%) / PECO (3.75%) / PEPCO (15.57%) / PSEG (0.02%)</p>             |
| b3800.42 | Peach Bottom North 500 kV bus upgrade - Replace 11 instances of strain bus conductor used for breaker drops or CT drops, seven 500 kV disconnect switches, seven Free Standing CTs, one 500 kV breaker, two breaker relays or meters |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> BGE (62.82%) / DPL (7.25%) / JCPL (0.09%) / NEPTUNE* (0.01%) / PECO (0.01%) / PEPCO (29.63%) / PSEG (0.18%) / RE (0.01%)</p> |

\*Neptune Regional Transmission System, LLC

**PECO Energy Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |  |  |  |
|----------|--|--|--|
| b3800.44 | North Delta termination for the North Delta - High Ridge 500 kV line (PECO work)             |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> Dominion (60.85%) / DPL (0.01%) / PECO (0.01%) / PEPCO (29.24%) / PSEG (9.48%) / RE (0.41%)</p>  |
| b3800.45 | North Delta 500 kV termination for the Rock Springs 500 kV line (5034/5014 line) (PECO work) |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> AEC (17.65%) / BGE (4.43%) / Dominion (9.87%) / DPL (22.25%) / JCPL (3.16%) / NEPTUNE* (0.36%) / PECO (2.98%) / PENELEC (0.44%) / PEPCO (3.80%) / PPL (5.99%) / PSEG (27.86%) / RE (1.21%)</p> |

\*Neptune Regional Transmission System, LLC

**PECO Energy Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |   |  |   |
|----------|---|--|---|
| b3800.46 | North Delta 500 kV termination for the new Peach Bottom - North Delta 500 kV line (PECO work)   |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> AEC (11.03%) / BGE (37.40%) / DPL (22.91%) / PEPCO (28.66%)</p> |
| b3800.47 | Build new Peach Bottom South - North Delta 500 kV line – cut in to Peach Bottom tie No.1 and extending line to North Delta (Approximately 1.25 miles new ROW) |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> AEC (11.03%) / BGE (37.40%) / DPL (22.91%) / PEPCO (28.66%)</p> |

\*Neptune Regional Transmission System, LLC

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 9 – PPL Electric Utilities  
Effective April 9, 2024  
Version 28.0.1

**SCHEDULE 12 – APPENDIX A**

**(9) PPL Electric Utilities Corporation**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b1813.12                           | Replace the Blooming Grove 230 kV breaker 'Peckville'                    | PPL (100%)   |
| b2223                              | Rebuild and reconductor 2.6 miles of the Sunbury - Dauphin 69 kV circuit | PPL (100%)   |
| b2224                              | Add a 2nd 150 MVA 230/69 kV transformer at Springfield                   | PPL (100%)   |
| b2237                              | 150 MVAR shunt reactor at Alburdis 500 kV                                | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%) |
|                                    |  | <b>DFAX Allocation:</b><br>PPL (100%)  |
| b2238                              | 100 MVAR shunt reactor at Elimsport 230 kV                               | PPL (100%)   |

\* Neptune Regional Transmission System, LLC

**PPL Electric Utilities Corporation (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2269   | Rebuild approximately 23.7 miles of the Susquehanna - Jenkins 230 kV circuit. This replaces a temporary SPS that is already planned to mitigate the violation until this solution is implemented |  | PPL (100%) |
| b2282   | Rebuild the Siegfried-Frackville 230 kV line   |  | PPL (100%) |
| b2406.1 | Rebuild Stanton-Providence 69 kV 2&3 9.5 miles with 795 SCSR   |  | PPL (100%) |
| b2406.2 | Reconductor 7 miles of the Lackawanna - Providence 69 kV #1 and #2 with 795 ACSR   |  | PPL (100%) |
| b2406.3 | Rebuild SUB2 Tap 1 (Lackawanna - Scranton 1) 69 kV 1.5 miles 556 ACSR  |  | PPL (100%) |
| b2406.4 | Rebuild SUB2 Tap 2 (Lackawanna - Scranton 1) 69 kV 1.6 miles 556 ACSR  |  | PPL (100%) |
| b2406.5 | Create Providence - Scranton 69 kV #1 and #2, 3.5 miles with 795 ACSR  |  | PPL (100%) |
| b2406.6 | Rebuild Providence 69 kV switchyard  |  | PPL (100%) |
| b2406.7 | Install 2 - 10.8 MVAR capacitors at EYNO 69 kV   |  | PPL (100%) |
| b2406.8 | Rebuild Stanton 230 kV yard  |  | PPL (100%) |

**PPL Electric Utilities Corporation (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |                                |
|---------|---|--|--------------------------------|
| b2446   | Replace wave trap and protective relays at Montour  |  | PPL (100%)                     |
| b2447   | Replace wave trap and protective relays at Montour  |  | PPL (100%)                     |
| b2448   | Install a 2nd Sunbury 900 MVA 500-230 kV transformer and associated equipment   |  | PPL (100%)                     |
| b2552.2 | Reconductor the North Meshoppen - Oxbow – Lackawanna 230 kV circuit and upgrade terminal equipment (PPL portion)  |  | PENELEC (98.86%) / PPL (1.14%) |
| b2574   | Replace the Sunbury 230 kV ‘MONTOUR NORT’ breaker with a 63 kA breaker  |  | PPL (100%)                     |
| b2690   | Reconductor two spans of the Graceton – Safe Harbor 230 kV transmission line. Includes termination point upgrades   |  | PPL (100%)                     |
| b2691   | Reconductor three spans limiting Brunner Island – Yorkana 230 kV line, add 2 breakers to Brunner Island switchyard, upgrade associated terminal equipment |  | PPL (100%)                     |

**PPL Electric Utilities Corporation (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2716                              | Add a 200 MVAR shunt reactor at Lackawanna 500 kV substation                                     | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     PPL (100%)</p> |
| b2754.1                            | Install 7 miles of optical ground wire (OPGW) between Gilbert and Springfield 230 kV substations | PPL (100%)   |
| b2754.4                            | Use ~ 40 route miles of existing fibers on PPL 230 kV system to establish direct fiber circuits  | PPL (100%)   |
| b2754.5                            | Upgrade relaying at Martins Creek 230 kV   | PPL (100%)   |
| b2756                              | Install 2% reactors at Martins Creek 230 kV  | PPL (100%)   |
| b2813                              | Expand existing Lycoming 69 kV yard to double bus double breaker arrangement                     | PPL (100%)   |

\* Neptune Regional Transmission System, LLC

**PPL Electric Utilities Corporation (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2824                              | Reconfigure/Expand the Lackawanna 500 kV substation by adding a third bay with three breakers   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     PPL (100%)</p> |
| b2838                              | Build a new 230/69 kV substation by tapping the Montour – Susquehanna 230 kV double circuits and Berwick – Hunlock & Berwick – Colombia 69 kV circuits  | PPL (100%)   |
| b2979                              | Replace Martins Creek 230 kV circuit breakers with 80 kA rating   | PPL (100%)   |
| b3221                              | Replace terminal equipment (bus conductor) on the 230 kV side of the Steel City 500/230 kV Transformer #1   | PPL (100%)   |
| b3222                              | Install one (1) 7.2 MVAR fixed cap bank on the Lock Haven – Reno 69 kV line and one (1) 7.2 MVAR fixed cap bank on the Lock Haven – Flemington 69 kV line near the Flemington 69/12 kV substation | PPL (100%)   |

\* Neptune Regional Transmission System, LLC

**PPL Electric Utilities Corporation (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3664                              | Replace the limiting 230 kV T2 transformer leads, bay conductor and bus conductor with double bundle 1590 ACSR at the Juniata station; Replace the limiting 1200 A MODs on the bus tie breaker with 3000 A MODs | PPL (100%)   |
| b3698                              | Reconductor the 14.2 miles of the existing Juniata –Cumberland 230 kV line with 1272 ACSS/TW HS285 "Pheasant" conductor   | AEC (4.17%) / BGE (13.18%) / DEOK (1.22%) / Dominion (3.25%) / DPL (9.14%) / ECP** (0.11%) / EKPC (0.22%) / HTP*** (0.20%) / JCPL (1.15%) / ME (27.02%) / NEPTUNE* (0.64%) / PECO (18.88%) / PEPCO (4.68%) / PSEG (16.14%) |
| b3715.1                            | Install a new 300 MVA 230/115 kV transformer at the existing PPL Williams Grove substation  | ME (100%)  |
| b3715.2                            | Construct a new approximately 3.4 miles 115 kV single circuit transmission line from Williams Grove to Allen substation   | ME (100%)  |

\* Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

**PPL Electric Utilities Corporation (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |  |
|---------|--|--|--|
| b3774   | Upgrade terminal equipment at Brunner Island station on Brunner Island – Yorkana 230 kV line             |  | PPL (100%)   |
| b3800.1 | Build a New Otter Creek 500 kV (Collinsville) switching station with two bay three breaker configuration |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPSCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> APS (13.16%) / BGE (0.71%) / Dominion (74.28%) / DPL (0.36%) / PECO (0.68%) / PEPSCO (10.59%) / PPL (0.22%)</p> |

\* Neptune Regional Transmission System, LLC

**PPL Electric Utilities Corporation (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3800.3                            | New Otter Creek (Collinsville) to Doubs 500 kV Line (Otter Creek 500 kV - MD Border). Rebuild and expand existing approximately 12 miles of Otter Creek - Conastone 230 kV line to become a double-circuit 500 and 230 kV lines | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (13.16%) / BGE (0.71%) / Dominion (74.28%) / DPL (0.36%) / PECO (0.68%) / PEPCO (10.59%) / PPL (0.22%)</p> |

\* Neptune Regional Transmission System, LLC

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 12 – Public Service Electric & Gas Co.  
Effective April 9, 2024  
Version 32.0.1

**SCHEDULE 12 – APPENDIX A**

**(12) Public Service Electric and Gas Company**

| Required Transmission 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%)             |

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)    |
|------------------------------------|--|----------------------------|
| b2276                              | Eliminate the Sewaren 138 kV bus by installing a new 230 kV bay at Sewaren 230 kV  | PSEG (95.85%) / RE (4.15%) |
| b2276.1                            | Convert the two 138 kV circuits from Sewaren – Metuchen to 230 kV circuits including Lafayette and Woodbridge substation               | PSEG (95.85%) / RE (4.15%) |
| b2276.2                            | Reconfigure the Metuchen 230 kV station to accommodate the two converted circuits  | PSEG (95.85%) / RE (4.15%) |
| b2290                              | Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook 230 kV substations on the Raritan River - Middlesex (I-1023) circuit | PSEG (100%)                |
| b2291                              | Replace circuit switcher at Lake Nelson 230 kV substation on the Raritan River - Middlesex (W-1037) circuit                            | PSEG (100%)                |
| b2295                              | Replace the Salem 500 kV breaker 10X with 63 kA breaker  | PSEG (100%)                |
| b2421                              | Install all 69 kV lines to interconnect Plainfield, Greenbrook, and Bridgewater stations and establish the 69 kV network               | PSEG (100%)                |
| b2421.1                            | Install two 18 MVAR capacitors at Plainfield and S. Second St substation   | PSEG (100%)                |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2421.2                            | Install a second four (4) breaker 69 kV 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 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPSCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (95.85%) / RE (4.15%)</p> |
| b2436.21                           | Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades    | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPSCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (95.85%) / RE (4.15%)</p> |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required 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 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (95.85%) / RE (4.15%)</p> |
| b2436.33                           | Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades           | PSEG (95.85%) / RE (4.15%)   |
| b2436.34                           | Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades        | PSEG (95.85%) / RE (4.15%)   |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2436.50                           | Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades   | PSEG (95.85%) / RE (4.15%)   |
| 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 (95.85%) / RE (4.15%)   |
| b2436.70                           | Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades  | PSEG (95.85%) / RE (4.15%)   |
| 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    | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%) |
|                                    |   | <b>DFAX Allocation:</b><br>PSEG (95.85%) / RE (4.15%)  |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2436.83                           | Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (95.85%) / RE (4.15%)</p> |
| b2436.84                           | Convert the Bayway – Linden “W” 138 kV circuit to 345 kV and any associated substation upgrades | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (95.85%) / RE (4.15%)</p> |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2436.85                           | Convert the Bayway – Linden “M” 138 kV circuit to 345 kV and any associated substation upgrades                | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (95.85%) / RE (4.15%)</p> |
| b2436.90                           | Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (100%)</p>                |
| 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

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)    |
|------------------------------------|---|----------------------------|
| b2437.10                           | New Bergen 345/230 kV transformer and any associated substation upgrades    | PSEG (95.85%) / RE (4.15%) |
| b2437.11                           | New Bergen 345/138 kV transformer #1 and any associated substation upgrades | PSEG (95.85%) / RE (4.15%) |
| b2437.20                           | New Bayway 345/138 kV transformer #1 and any associated substation upgrades | PSEG (95.85%) / RE (4.15%) |
| b2437.21                           | New Bayway 345/138 kV transformer #2 and any associated substation upgrades | PSEG (95.85%) / RE (4.15%) |
| b2437.30                           | New Linden 345/230 kV transformer and any associated substation upgrades    | PSEG (95.85%) / RE (4.15%) |
| b2437.33                           | New Bayonne 345/69 kV transformer and any associated substation upgrades    | PSEG (95.85%) / RE (4.15%) |
| b2438                              | Install two reactors at Tosco 230 kV  | PSEG (100%)                |
| b2439                              | Replace the Tosco 138 kV breaker 'CB1/2 (CBT)' with 63 kA                   | PSEG (100%)                |
| b2474                              | Rebuild Athenia 138 kV to 80 kA   | 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%)                |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2633.3                            | Install an SVC at New Freedom 500 kV substation                         | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p>  |
| b2633.4                            | Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation) | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     AEC (8.01%) / BGE (1.94%) / DPL (12.99%) / JCPL (13.85%) / ME (5.88%) / NEPTUNE* (3.45%) / PECO (17.62%) / PPL (14.85%) / PSEG (20.79%) / RE (0.62%)</p> |

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required 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 (8.01%) / BGE (1.94%) / DPL (12.99%) / JCPL (13.85%) / ME (5.88%) / NEPTUNE* (3.45%) / PECO (17.62%) / PPL (14.85%) / PSEG (20.79%) / RE (0.62%)   |
| 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 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPSCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> |
|                                    |  | <p><b>DFAX Allocation:</b><br/>                     AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p>  |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required 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  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPSCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (100%)</p> |
| 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 Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)          |
|------------------------------------|--|----------------------------------|
| b2712                              | Replace the Bergen 138 kV '40P' breaker with 80 kA breaker                             | PSEG (100%)                      |
| b2713                              | Replace the Bergen 138 kV '90P' breaker with 80 kA 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 (95.85%) / RE (4.15%)       |
| b2810.1                            | Install second 230/69 kV transformer at Cedar Grove                                    | PSEG (95.85%) / RE (4.15%)       |
| b2810.2                            | Build a new 69 kV circuit from Cedar Grove to Great Notch                              | PSEG (95.85%) / RE (4.15%)       |
| b2811                              | Build 69 kV circuit from Locust Street to Delair                                       | PSEG (95.85%) / RE (4.15%)       |
| b2812                              | Construct River Road to Tonnelle Avenue 69kV Circuit                                   | PSEG (95.85%) / RE (4.15%)       |
| 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 |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2835.1                            | Convert the R-1318 and Q-1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit (Brunswick – Meadow Road)        | AEC (14.94%) / PECO (44.49%) / PSEG (38.89%) / RE (1.68%)                    |
| b2835.2                            | Convert the R-1318 and Q-1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Meadow Road - Pierson Ave)      | AEC (13.15%) / PECO (39.12%) / PSEG (45.75%) / RE (1.98%)                    |
| b2835.3                            | Convert the R-1318 and Q-1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Pierson Ave - Metuchen)         | AEC (11.57%) / PECO (34.41%) / PSEG (51.78%) / RE (2.24%)                    |
| 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)   | AEC (8.23%) / NEPTUNE* (43.36%) / PECO (30.19%) / PSEG (17.46%) / RE (0.76%) |
| b2836.2                            | Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)     | AEC (2.14%) / NEPTUNE* (11.80%) / PECO (7.72%) / PSEG (75.09%) / RE (3.25%)  |
| b2836.3                            | Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) | AEC (6.98%) / NEPTUNE* (64.26%) / PECO (25.38%) / PSEG (3.24%) / RE (0.14%)  |
| b2836.4                            | Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils Brook - Trenton)   | AEC (5.13%) / NEPTUNE* (28.43%) / PECO (18.69%) / PSEG (45.77%) / RE (1.98%) |

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)                        |
|------------------------------------|--|--|
| b2837                              | Convert the F-1358/Z-1326 and K-1363/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* (10.75%) / PSEG (85.55%) / RE (3.70%) |
| 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* (8.84%) / PSEG (87.38%) / RE (3.78%)  |
| b2837.3                            | Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)         | NEPTUNE* (8.24%) / PSEG (87.95%) / RE (3.81%)  |
| 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* (6.96%) / PSEG (89.18%) / RE (3.86%)  |
| 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* (5.95%) / PSEG (90.15%) / RE (3.90%)  |
| 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* (12.83%) / PSEG (83.55%) / RE (3.62%) |

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue 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* (9.98%) / PSEG (86.29%) / RE (3.73%) |
| 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* (9.98%) / PSEG (86.29%) / RE (3.73%) |
| 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* (8.01%) / PSEG (88.18%) / RE (3.81%) |
| 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* (7.16%) / PSEG (88.99%) / RE (3.85%) |
| 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* (5.54%) / PSEG (90.54%) / RE (3.92%) |
| b2870                              | 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 | PSEG (100%)                                   |
| b2933                              | Third Source for Springfield Rd. and Stanley Terrace Stations  | PSEG (95.85%) / RE (4.15%)                    |

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)    |
|------------------------------------|---|----------------------------|
| b2933.1                            | Construct a 230/69 kV station at Springfield  | PSEG (95.85%) / RE (4.15%) |
| b2933.2                            | Construct a 230/69 kV station at Stanley Terrace  | PSEG (95.85%) / RE (4.15%) |
| b2933.31                           | Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)    | PSEG (95.85%) / RE (4.15%) |
| b2933.32                           | Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace) | PSEG (95.85%) / RE (4.15%) |
| b2934                              | Build a new 69 kV line between Hasbrouck Heights and Carlstadt  | PSEG (95.85%) / RE (4.15%) |
| b2935                              | Third Supply for Runnemede 69 kV and Woodbury 69 kV   | PSEG (95.85%) / RE (4.15%) |
| 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 (95.85%) / RE (4.15%) |
| b2935.2                            | Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply                                    | PSEG (95.85%) / RE (4.15%) |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)          |
|------------------------------------|---|----------------------------------|
| b2935.3                            | Convert Runnemedede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemedede 69 kV     | PSEG (95.85%) / RE (4.15%)       |
| b2955                              | Wreck and rebuild the VFT – Warinanco – Aldene 230 kV circuit with paired conductor                               | PSEG (95.85%) / RE (4.15%)       |
| b2956                              | Replace existing cable on Cedar Grove - Jackson Rd. with 5000 kcmil XLPE cable                                    | PSEG (95.85%) / RE (4.15%)       |
| b2982                              | Construct a 230/69 kV station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV                      | PSEG (95.85%) / RE (4.15%)       |
| b2982.1                            | Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale   | PSEG (95.85%) / RE (4.15%)       |
| b2982.2                            | Construct a 69 kV network between Paramus, Dumont, and Hillsdale Substation using existing 69 kV circuits         | PSEG (95.85%) / RE (4.15%)       |
| b2983                              | Convert Kuller Road to a 69/13 kV station   | PSEG (95.85%) / RE (4.15%)       |
| b2983.1                            | Install 69 kV ring bus and two (2) 69/13 kV transformers at Kuller Road   | PSEG (95.85%) / RE (4.15%)       |
| b2983.2                            | Construct a 69 kV network between Kuller Road, Passaic, Paterson, and Harvey (new Clifton area switching station) | PSEG (95.85%) / RE (4.15%)       |
| b2986                              | Replace the existing Roseland – Branchburg – Pleasant Valley 230 kV corridor with new structures                  | See sub-IDs for cost allocations |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2986.11                           | Roseland-Branchburg 230 kV corridor rebuild (Roseland - Readington)                            | PSEG (95.85%) / RE (4.15%)   |
| b2986.12                           | Roseland-Branchburg 230 kV corridor rebuild (Readington - Branchburg)                          | JCPL (58.66%) / PSEG (39.62%) / RE (1.72%)                                   |
| b2986.21                           | Branchburg-Pleasant Valley 230 kV corridor rebuild (Branchburg - East Flemington)              | NEPTUNE* (0.37%) / PECO (98.94%) / PSEG (0.66%) / RE (0.03%)                 |
| b2986.22                           | Branchburg-Pleasant Valley 230 kV corridor rebuild (East Flemington - Pleasant Valley)         | NEPTUNE* (5.83%) / PECO (83.73%) / PSEG (10.01%) / RE (0.43%)                |
| b2986.23                           | Branchburg-Pleasant Valley 230 kV corridor rebuild (Pleasant Valley - Rocktown)                | JCPL (26.89%) / NEPTUNE* (4.81%) / PECO (8.88%) / PSEG (56.96%) / RE (2.46%) |
| b2986.24                           | Branchburg-Pleasant Valley 230 kV corridor rebuild (the PSEG portion of Rocktown - Buckingham) | JCPL (33.60%) / NEPTUNE* (4.40%) / PECO (6.02%) / PSEG (53.66%) / RE (2.32%) |
| b3003                              | Construct a 230/69 kV station at Maywood   | PSEG (95.85%) / RE (4.15%)   |
| b3003.1                            | Purchase properties at Maywood to accommodate new construction                                 | PSEG (95.85%) / RE (4.15%)   |
| b3003.2                            | Extend Maywood 230 kV bus and install one (1) 230 kV breaker                                   | PSEG (95.85%) / RE (4.15%)   |
| b3003.3                            | Install one (1) 230/69 kV transformer at Maywood   | PSEG (95.85%) / RE (4.15%)   |

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)    |
|------------------------------------|---|----------------------------|
| b3003.4                            | Install Maywood 69 kV ring bus  | PSEG (95.85%) / RE (4.15%) |
| b3003.5                            | Construct a 69 kV network between Spring Valley Road, Hasbrouck Heights, and Maywood                          | PSEG (95.85%) / RE (4.15%) |
| b3004                              | Construct a 230/69/13 kV station by tapping the Mercer – Kuser Rd 230 kV circuit                              | PSEG (95.85%) / RE (4.15%) |
| b3004.1                            | Install a new Clinton 230 kV ring bus with one (1) 230/69 kV transformer Mercer - Kuser Rd 230 kV circuit     | PSEG (95.85%) / RE (4.15%) |
| b3004.2                            | Expand existing 69 kV ring bus at Clinton Ave with two (2) additional 69 kV breakers                          | PSEG (95.85%) / RE (4.15%) |
| b3004.3                            | Install two (2) 69/13 kV transformers at Clinton Ave  | PSEG (95.85%) / RE (4.15%) |
| b3004.4                            | Install 18 MVAR capacitor bank at Clinton Ave 69 kV   | PSEG (95.85%) / RE (4.15%) |
| b3025                              | Construct two (2) new 69/13 kV stations in the Doremus area and relocate the Doremus load to the new stations | PSEG (95.85%) / RE (4.15%) |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)    |
|------------------------------------|--|----------------------------|
| b3025.1                            | Install a new 69/13 kV station (Vauxhall) with a ring bus configuration  | PSEG (95.85%) / RE (4.15%) |
| b3025.2                            | Install a new 69/13 kV station (19th Ave) with a ring bus configuration  | PSEG (95.85%) / RE (4.15%) |
| b3025.3                            | Construct a 69 kV network between Stanley Terrace, Springfield Road, McCarter, Federal Square, and the two new stations (Vauxhall & 19th Ave)  | PSEG (95.85%) / RE (4.15%) |
| b3703                              | Construct a third 69 kV supply line from Penns Neck substation to West Windsor substation  | PSEG (100%)                |
| b3704                              | Replace the Lawrence switching station 230/69 kV Transformer No. 220-4 and its associated circuit switchers with a new larger capacity transformer with load tap changer (LTC) and new dead tank circuit breaker. Install a new 230 kV gas insulated breaker, associated disconnects, overhead bus and other necessary equipment to complete the bay within the Lawrence 230 kV switchyard | PSEG (100%)                |
| b3705                              | Replace existing 230/138 kV Athenia Transformer No. 220-1  | PSEG (95.85%) / RE (4.15%) |
| b3706                              | Replace Fair Lawn 230/138 kV transformer No. 220-1 with an existing O&M system spare at Burlington   | PSEG (100%)                |
| b3716                              | Construct a third 69 kV supply line from Totowa substation to the customer's substation  | PSEG (100%)                |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3719                              | Replace the two existing 1200A Bergen 138 kV circuit switchers with two 138 kV disconnect switches to achieve a minimum summer normal device rating of 298 MVA and a minimum summer emergency rating of 454 MVA | PSEG (100%)  |
| b3757                              | Convert existing Medford 69 kV straight bus to seven-breaker ring bus, construct a new 230/69 kV transformer at Cox's Corner station and a new 69 kV line from Cox's Corner station to Medford station          | PSEG (100%)  |
| b3800.7                            | Construct 38 miles of 500 kV overhead AC line between the Conastone vicinity and the Doubs substations (BGE zone portion)   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (13.16%) / BGE (0.79%) / Dominion (74.28%) / DPL (0.41%) / PECO (0.77%) / PEPCO (10.59%)</p> |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3800.43                           | Construct 31.5 miles of 500 kV overhead AC line between the Conastone vicinity and the Doubs substations (APS Section) | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (13.16%) / BGE (0.79%) / Dominion (74.28%) / DPL (0.41%) / PECO (0.77%) / PEPCO (10.59%)</p> |

\*Neptune Regional Transmission System, LLC

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 14 – Monongahela Power Co.  
Effective January 1, 2024  
Version 31.0.1

**SCHEDULE 12 – APPENDIX A**

**(14) Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power**

| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s) |
|--|----------------------------|-------------------------|
| b2117<br>Reconductor 0.33 miles of the Parkersburg - Belpre line and upgrade Parkersburg terminal equipment  |                            | APS (100%)              |
| b2118<br>Add 44 MVAR Cap at New Martinsville   |                            | APS (100%)              |
| b2142<br>Replace Weirton 138 kV breaker “Wylie Ridge 210” with 63 kA breaker   |                            | APS (100%)              |
| b2143<br>Replace Weirton 138 kV breaker “Wylie Ridge 216” with 63 kA breaker   |                            | APS (100%)              |
| b2214<br>Albright Substation: Install a new control building in the switchyard and relocate controls and SCADA equipment from the generating station building the new control center |                            | APS (100%)              |
| b2215<br>Rivesville Switching Station: Relocate controls and SCADA equipment from the generating station building to new control building  |                            | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2216                              | Willow Island: Install a new 138 kV cross bus at Belmont Substation and reconnect and reconfigure the 138 kV lines to facilitate removal of the equipment at Willow Island switching station | APS (100%)              |
| b2235                              | 130 MVAR reactor at Monocacy 230 kV  | APS (100%)              |
| b2260                              | Install a 32.4 MVAR capacitor at Bartonville   | APS (100%)              |
| b2261                              | Install a 33 MVAR capacitor at Damascus  | APS (100%)              |
| b2267                              | Replace 1000 Cu substation conductor and 1200 amp wave trap at Marlowe   | APS (100%)              |
| b2268                              | Reconductor 6.8 miles of 138kV 336 ACSR with 336 ACSS from Double Toll Gate to Riverton  | APS (100%)              |
| b2299                              | Reconductor from Collins Ferry - West Run 138 kV with 556 ACSS   | APS (100%)              |
| b2300                              | Reconductor from Lake Lynn - West Run 138 kV   | APS (100%)              |
| b2342                              | Construct a new 138 kV switching station (Shuman Hill substation), which is next the Mobley 138 kV substation and install a 31.7 MVAR capacitor  | APS (100%)              |
| b2343                              | Install a 31.7 MVAR capacitor at West Union 138 kV substation  | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s) |
|------------------------------------|---|--|-------------------------|
| b2433.1                            | Install breaker and a half 138 kV substation (Waldo Run) with 4 breakers to accommodate service to MarkWest Sherwood Facility including metering which is cut into Glen Falls Lamberton 138 kV line |  | APS (100%)              |
| b2433.2                            | Install a 70 MVAR SVC at the new WaldoRun 138 kV substation   |  | APS (100%)              |
| b2433.3                            | Install two 31.7 MVAR capacitors at the new WaldoRun 138 kV substation  |  | APS (100%)              |
| b2424                              | Replace the Weirton 138 kV breaker 'WYLIE RID210' with 63 kA breakers   |  | APS (100%)              |
| b2425                              | Replace the Weirton 138 kV breaker 'WYLIE RID216' with 63 kA breakers   |  | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2426                              | Replace the Oak Grove 138 kV breaker 'OG1' with 63 kA breakers   | APS (100%)              |
| b2427                              | Replace the Oak Grove 138 kV breaker 'OG2' with 63 kA breakers   | APS (100%)              |
| b2428                              | Replace the Oak Grove 138 kV breaker 'OG3' with 63 kA breakers   | APS (100%)              |
| b2429                              | Replace the Oak Grove 138 kV breaker 'OG4' with 63 kA breakers   | APS (100%)              |
| b2430                              | Replace the Oak Grove 138 kV breaker 'OG5' with 63 kA breakers   | APS (100%)              |
| b2431                              | Replace the Oak Grove 138 kV breaker 'OG6' with 63 kA breakers   | APS (100%)              |
| b2432                              | Replace the Ridgeley 138 kV breaker 'RC1' with a 40 kA rated breaker   | APS (100%)              |
| b2472                              | Replace the Ringgold 138 kV breaker 'RCM1' with 40kA breakers  | APS (100%)              |
| b2473                              | Replace the Ringgold 138 kV breaker '#4 XMFR' with 40kA breakers   | APS (100%)              |
| b2475                              | Construct a new line between Oak Mound 138 kV substation and Waldo Run 138 kV substation                             | APS (100%)              |
| b2545.1                            | Construct a new 138 kV substation (Shuman Hill substation) connected to the Fairview –Willow Island (84) 138 kV line | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2545.2                            | Install a ring bus station with five active positions and two 52.8 MVAR capacitors with 0.941 mH reactors  | APS (100%)  |
| b2545.3                            | Install a +90/-30 MVAR SVC protected by a 138 kV breaker   | APS (100%)  |
| b2545.4                            | Remove the 31.7 MVAR capacitor bank at Mobley 138 kV   | APS (100%)  |
| b2548                              | Eliminate clearance de-rate on Wylie Ridge – Smith 138 kV line and upgrade terminals at Smith 138 kV, new line ratings 294 MVA (Rate A)/350 MVA (Rate B) | APS (100%)  |
| b2672                              | Change CT Ratio at Seneca Caverns from 120/1 to 160/1 and adjust relay settings accordingly  | APS (100%)  |
| b2688.3                            | Carroll Substation: Replace the Germantown 138 kV wave trap, upgrade the bus conductor and adjust CT ratios  | 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%) / PEPSCO (15.85%) / RECO (0.12%) |
| b2700                              | Remove existing Black Oak SPS  | APS (100%)  |
| b2743.6                            | Reconfigure the Ringgold 230 kV substation to double bus double breaker scheme   | 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%) / PEPSCO (20.88%)                  |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2743.6.1                          | Replace the two Ringgold 230/138 kV transformers   | 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%) |
| b2743.7                            | Rebuild/Reconductor the Ringgold – Catocin 138 kV circuit and upgrade terminal equipment on both ends  | 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%) |
| b2747.1                            | Relocate the FirstEnergy Pratts 138 kV terminal CVTs at Gordonsville substation to allow for the installation of a new motor operated switch being installed by Dominion | APS (100%)  |
| b2764                              | Upgrade Fairview 138 kV breaker risers and disconnect leads; Replace 500 CU breaker risers and 556 ACSR disconnect leads with 795 ACSR                                   | APS (100%)  |
| b2964.1                            | Replace terminal equipment at Pruntytown and Glen Falls 138 kV station   | APS (100%)  |
| b2964.2                            | Reconductor approximately 8.3 miles of the McAlpin - White Hall Junction 138 kV circuit  | APS (100%)  |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2970                              | Ringgold – Catoctin Solution   | APS (100%)              |
| b2970.1                            | Install two new 230 kV positions at Ringgold for 230/138 kV transformers   | APS (100%)              |
| b2970.2                            | Install new 230 kV position for Ringgold – Catoctin 230 kV line  | APS (100%)              |
| b2970.3                            | Install one new 230 kV breaker at Catoctin substation  | APS (100%)              |
| b2970.4                            | Install new 230/138 kV transformer at Catoctin substation. Convert Ringgold – Catoctin 138 kV line to 230 kV operation | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)          |
|------------------------------------|--|----------------------------------|
| b2970.5                            | Convert Garfield 138/12.5 kV substation to 230/12.5 kV   | APS (100%)                       |
| b2996                              | Construct new Flint Run 500/138 kV substation  | See sub-IDs for cost allocations |
| b2996.1                            | Construct a new 500/138 kV substation as a 4-breaker ring bus with expansion plans for double-breaker-double-bus on the 500 kV bus and breaker-and-a-half on the 138 kV bus to provide EHV source to the Marcellus shale load growth area. Projected load growth of additional 160 MVA to current plan of 280 MVA, for a total load of 440 MVA served from Waldo Run substation. Construct additional 3-breaker string at Waldo Run 138 kV bus. Relocate the Sherwood #2 line terminal to the new string. Construct two single circuit Flint Run - Waldo Run 138 kV lines using 795 ACSR (approximately 3 miles). After terminal relocation on new 3-breaker string at Waldo Run, terminate new Flint Run 138 kV lines onto the two open terminals | APS (100%)                       |
| b2996.2                            | Loop the Belmont – Harrison 500 kV line into and out of the new Flint Run 500 kV substation (less than 1 mile). Replace primary relaying and carrier sets on Belmont and Harrison 500 kV remote end substations  | APS (100%)                       |
| b2996.3                            | Upgrade two (2) existing 138 kV breakers (Rider 50 and #1/4 transformer breaker) at Glen Falls with 63 kA 3000A units  | APS (100%)                       |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)     |
|------------------------------------|--|-----------------------------|
| b3028                              | Upgrade substation disconnect leads at William 138 kV substation           | APS (100%)                  |
| b3051.1                            | Ronceverte cap bank and terminal upgrades                                  | APS (100%)                  |
| b3052                              | Install a 138 kV capacitor (29.7 MVAR effective) at West Winchester 138 kV | APS (100%)                  |
| b3079                              | Replace the Wylie Ridge 500/345 kV transformer #7                          | ATSI (72.30%) / DL (27.70%) |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3128                              | Relocate 34.5 kV lines from generating station roof R. Paul Smith 138 kV station  | APS (100%)              |
| b3240                              | Upgrade Cherry Run and Morgan terminals to make the transmission line the limiting component  | APS (100%)              |
| b3241                              | Install 138 kV, 36 MVAR capacitor and a 5 uF reactor protected by a 138 kV capacitor switcher. Install a breaker on the 138 kV Junction terminal. Install a 138 kV 3.5 uF reactor on the existing Hardy 138 kV capacitor  | APS (100%)              |
| b3242                              | Reconfigure Stonewall 138 kV substation from its current configuration to a six-breaker, breaker-and-a-half layout and add two (2) 36 MVAR capacitors with capacitor switchers  | APS (100%)              |
| b3683                              | Reconductor the existing 556.5 ACSR line segments on the Messick Road – Ridgeley 138 kV line with 954 45/7 ACSR to achieve 308/376 MVA SN/SE and 349/445 MVA WN/WE ratings. Replace the remote end equipment for the line. The total length of the line is 5.02 miles | APS (100%)              |
| b3701                              | Replace terminal equipment at French's Mill and Junction 138 kV substations   | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |  |  |            |
|-------|--|--|------------|
| b3743 | <p>At Bedington substation:<br/>           Replace substation conductor, wave trap, Current Transformers (CT's) and upgrade relaying<br/>           At Cherry Run substation:<br/>           Replace substation conductor, wave trap, CT's, disconnect switches, circuit breaker and upgrade relaying<br/>           At Marlowe substation: Replace substation conductor, wave trap, CT's and upgrade relaying</p> |  | APS (100%) |
| b3746 | <p>Install redundant relaying at Meadow Brook 500 kV substation</p>  |  | APS (100%) |
| b3747 | <p>Install redundant relaying at Bedington 500 kV substation</p>   |  | APS (100%) |
| b3772 | <p>Reconductor 27.3 miles of the Messick Road – Morgan 138 kV line from 556 ACSR to 954 ACSR. At Messick Road substation, replace 138 kV wave trap, circuit breaker, CT's, disconnect switch, and substation conductor and upgrade relaying. At Morgan substation, upgrade relaying</p>  |  | APS (100%) |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 14 – Monongahela Power Co.  
Effective January 31, 2024  
Version 30.0.1

**SCHEDULE 12 – APPENDIX A**

**(14) Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2117                              | Reconductor 0.33 miles of the Parkersburg - Belpre line and upgrade Parkersburg terminal equipment  | APS (100%)              |
| b2118                              | Add 44 MVAR Cap at New Martinsville   | APS (100%)              |
| b2142                              | Replace Weirton 138 kV breaker “Wylie Ridge 210” with 63 kA breaker   | APS (100%)              |
| b2143                              | Replace Weirton 138 kV breaker “Wylie Ridge 216” with 63 kA breaker   | APS (100%)              |
| b2214                              | Albright Substation: Install a new control building in the switchyard and relocate controls and SCADA equipment from the generating station building the new control center | APS (100%)              |
| b2215                              | Rivesville Switching Station: Relocate controls and SCADA equipment from the generating station building to new control building  | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2216                              | Willow Island: Install a new 138 kV cross bus at Belmont Substation and reconnect and reconfigure the 138 kV lines to facilitate removal of the equipment at Willow Island switching station | APS (100%)              |
| b2235                              | 130 MVAR reactor at Monocacy 230 kV  | APS (100%)              |
| b2260                              | Install a 32.4 MVAR capacitor at Bartonville   | APS (100%)              |
| b2261                              | Install a 33 MVAR capacitor at Damascus  | APS (100%)              |
| b2267                              | Replace 1000 Cu substation conductor and 1200 amp wave trap at Marlowe   | APS (100%)              |
| b2268                              | Reconductor 6.8 miles of 138kV 336 ACSR with 336 ACSS from Double Toll Gate to Riverton  | APS (100%)              |
| b2299                              | Reconductor from Collins Ferry - West Run 138 kV with 556 ACSS   | APS (100%)              |
| b2300                              | Reconductor from Lake Lynn - West Run 138 kV   | APS (100%)              |
| b2342                              | Construct a new 138 kV switching station (Shuman Hill substation), which is next the Mobley 138 kV substation and install a 31.7 MVAR capacitor  | APS (100%)              |
| b2343                              | Install a 31.7 MVAR capacitor at West Union 138 kV substation  | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2433.1                            | Install breaker and a half 138 kV substation (Waldo Run) with 4 breakers to accommodate service to MarkWest Sherwood Facility including metering which is cut into Glen Falls Lamberton 138 kV line | APS (100%)              |
| b2433.2                            | Install a 70 MVAR SVC at the new WaldoRun 138 kV substation   | APS (100%)              |
| b2433.3                            | Install two 31.7 MVAR capacitors at the new WaldoRun 138 kV substation  | APS (100%)              |
| b2424                              | Replace the Weirton 138 kV breaker 'WYLIE RID210' with 63 kA breakers   | APS (100%)              |
| b2425                              | Replace the Weirton 138 kV breaker 'WYLIE RID216' with 63 kA breakers   | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2426                              | Replace the Oak Grove 138 kV breaker 'OG1' with 63 kA breakers   | APS (100%)              |
| b2427                              | Replace the Oak Grove 138 kV breaker 'OG2' with 63 kA breakers   | APS (100%)              |
| b2428                              | Replace the Oak Grove 138 kV breaker 'OG3' with 63 kA breakers   | APS (100%)              |
| b2429                              | Replace the Oak Grove 138 kV breaker 'OG4' with 63 kA breakers   | APS (100%)              |
| b2430                              | Replace the Oak Grove 138 kV breaker 'OG5' with 63 kA breakers   | APS (100%)              |
| b2431                              | Replace the Oak Grove 138 kV breaker 'OG6' with 63 kA breakers   | APS (100%)              |
| b2432                              | Replace the Ridgeley 138 kV breaker 'RC1' with a 40 kA rated breaker   | APS (100%)              |
| b2472                              | Replace the Ringgold 138 kV breaker 'RCM1' with 40kA breakers  | APS (100%)              |
| b2473                              | Replace the Ringgold 138 kV breaker '#4 XMFR' with 40kA breakers   | APS (100%)              |
| b2475                              | Construct a new line between Oak Mound 138 kV substation and Waldo Run 138 kV substation                             | APS (100%)              |
| b2545.1                            | Construct a new 138 kV substation (Shuman Hill substation) connected to the Fairview –Willow Island (84) 138 kV line | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2545.2                            | Install a ring bus station with five active positions and two 52.8 MVAR capacitors with 0.941 mH reactors  | APS (100%)  |
| b2545.3                            | Install a +90/-30 MVAR SVC protected by a 138 kV breaker   | APS (100%)  |
| b2545.4                            | Remove the 31.7 MVAR capacitor bank at Mobley 138 kV   | APS (100%)  |
| b2548                              | Eliminate clearance de-rate on Wylie Ridge – Smith 138 kV line and upgrade terminals at Smith 138 kV, new line ratings 294 MVA (Rate A)/350 MVA (Rate B) | APS (100%)  |
| b2672                              | Change CT Ratio at Seneca Caverns from 120/1 to 160/1 and adjust relay settings accordingly  | APS (100%)  |
| b2688.3                            | Carroll Substation: Replace the Germantown 138 kV wave trap, upgrade the bus conductor and adjust CT ratios  | 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%) / PEPSCO (15.85%) / RECO (0.12%) |
| b2700                              | Remove existing Black Oak SPS  | APS (100%)  |
| b2743.6                            | Reconfigure the Ringgold 230 kV substation to double bus double breaker scheme   | 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%) / PEPSCO (20.88%)                  |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2743.6.1                          | Replace the two Ringgold 230/138 kV transformers   | 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%) |
| b2743.7                            | Rebuild/Reconductor the Ringgold – Catocin 138 kV circuit and upgrade terminal equipment on both ends  | 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%) |
| b2747.1                            | Relocate the FirstEnergy Pratts 138 kV terminal CVTs at Gordonsville substation to allow for the installation of a new motor operated switch being installed by Dominion | APS (100%)  |
| b2764                              | Upgrade Fairview 138 kV breaker risers and disconnect leads; Replace 500 CU breaker risers and 556 ACSR disconnect leads with 795 ACSR                                   | APS (100%)  |
| b2964.1                            | Replace terminal equipment at Pruntytown and Glen Falls 138 kV station   | APS (100%)  |
| b2964.2                            | Reconductor approximately 8.3 miles of the McAlpin - White Hall Junction 138 kV circuit  | APS (100%)  |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2970                              | Ringgold – Catoctin Solution   | APS (100%)              |
| b2970.1                            | Install two new 230 kV positions at Ringgold for 230/138 kV transformers   | APS (100%)              |
| b2970.2                            | Install new 230 kV position for Ringgold – Catoctin 230 kV line  | APS (100%)              |
| b2970.3                            | Install one new 230 kV breaker at Catoctin substation  | APS (100%)              |
| b2970.4                            | Install new 230/138 kV transformer at Catoctin substation. Convert Ringgold – Catoctin 138 kV line to 230 kV operation | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)          |
|------------------------------------|--|----------------------------------|
| b2970.5                            | Convert Garfield 138/12.5 kV substation to 230/12.5 kV   | APS (100%)                       |
| b2996                              | Construct new Flint Run 500/138 kV substation  | See sub-IDs for cost allocations |
| b2996.1                            | Construct a new 500/138 kV substation as a 4-breaker ring bus with expansion plans for double-breaker-double-bus on the 500 kV bus and breaker-and-a-half on the 138 kV bus to provide EHV source to the Marcellus shale load growth area. Projected load growth of additional 160 MVA to current plan of 280 MVA, for a total load of 440 MVA served from Waldo Run substation. Construct additional 3-breaker string at Waldo Run 138 kV bus. Relocate the Sherwood #2 line terminal to the new string. Construct two single circuit Flint Run - Waldo Run 138 kV lines using 795 ACSR (approximately 3 miles). After terminal relocation on new 3-breaker string at Waldo Run, terminate new Flint Run 138 kV lines onto the two open terminals | APS (100%)                       |
| b2996.2                            | Loop the Belmont – Harrison 500 kV line into and out of the new Flint Run 500 kV substation (less than 1 mile). Replace primary relaying and carrier sets on Belmont and Harrison 500 kV remote end substations  | APS (100%)                       |
| b2996.3                            | Upgrade two (2) existing 138 kV breakers (Rider 50 and #1/4 transformer breaker) at Glen Falls with 63 kA 3000A units  | APS (100%)                       |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |                             |
|---------|--|--|-----------------------------|
| b3028   | Upgrade substation disconnect leads at William 138 kV substation           |  | APS (100%)                  |
| b3051.1 | Ronceverte cap bank and terminal upgrades                                  |  | APS (100%)                  |
| b3052   | Install a 138 kV capacitor (29.7 MVAR effective) at West Winchester 138 kV |  | APS (100%)                  |
| b3079   | Replace the Wylie Ridge 500/345 kV transformer #7                          |  | ATSI (72.30%) / DL (27.70%) |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---------------------------|
| b3128                              | Relocate 34.5 kV lines from generating station roof R. Paul Smith 138 kV station  | APS (100%)                |
| b3240                              | Upgrade Cherry Run and Morgan terminals to make the transmission line the limiting component  | APS (100%)                |
| b3241                              | Install 138 kV, 36 MVAR capacitor and a 5 uF reactor protected by a 138 kV capacitor switcher. Install a breaker on the 138 kV Junction terminal. Install a 138 kV 3.5 uF reactor on the existing Hardy 138 kV capacitor  | APS (100%)                |
| b3242                              | Reconfigure Stonewall 138 kV substation from its current configuration to a six-breaker, breaker-and-a-half layout and add two (2) 36 MVAR capacitors with capacitor switchers  | APS (100%)                |
| b3683                              | Reconductor the existing 556.5 ACSR line segments on the Messick Road – Ridgeley 138 kV line with 954 45/7 ACSR to achieve 308/376 MVA SN/SE and 349/445 MVA WN/WE ratings. Replace the remote end equipment for the line. The total length of the line is 5.02 miles | APS (100%)                |
| b3701                              | Replace terminal equipment at French's Mill and Junction 138 kV substations   | APS (100%)                |
| b3717.1                            | Install a series reactor on Cheswick - Springdale 138 kV line   | APS (1.93%) / DL (98.07%) |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |            |
|-------|---|--|------------|
| b3743 | At Bedington substation:<br>Replace substation conductor, wave trap, Current Transformers (CT's) and upgrade relaying<br>At Cherry Run substation:<br>Replace substation conductor, wave trap, CT's, disconnect switches, circuit breaker and upgrade relaying<br>At Marlowe substation: Replace substation conductor, wave trap, CT's and upgrade relaying |  | APS (100%) |
| b3746 | Install redundant relaying at Meadow Brook 500 kV substation  |  | APS (100%) |
| b3747 | Install redundant relaying at Bedington 500 kV substation   |  | APS (100%) |
| b3772 | Reconductor 27.3 miles of the Messick Road – Morgan 138 kV line from 556 ACSR to 954 ACSR. At Messick Road substation, replace 138 kV wave trap, circuit breaker, CT's, disconnect switch, and substation conductor and upgrade relaying. At Morgan substation, upgrade relaying  |  | APS (100%) |
| b3782 | Adjust relay settings at Riverton substation on the Riverton-Bethel Tap 138 kV line   |  | APS (100%) |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 14 – Monongahela Power Co.  
Effective April 9, 2024  
Version 32.0.1

**SCHEDULE 12 – APPENDIX A**

**(14) Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2117                              | Reconductor 0.33 miles of the Parkersburg - Belpre line and upgrade Parkersburg terminal equipment  | APS (100%)              |
| b2118                              | Add 44 MVAR Cap at New Martinsville   | APS (100%)              |
| b2142                              | Replace Weirton 138 kV breaker “Wylie Ridge 210” with 63 kA breaker   | APS (100%)              |
| b2143                              | Replace Weirton 138 kV breaker “Wylie Ridge 216” with 63 kA breaker   | APS (100%)              |
| b2214                              | Albright Substation: Install a new control building in the switchyard and relocate controls and SCADA equipment from the generating station building the new control center | APS (100%)              |
| b2215                              | Rivesville Switching Station: Relocate controls and SCADA equipment from the generating station building to new control building  | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2216                              | Willow Island: Install a new 138 kV cross bus at Belmont Substation and reconnect and reconfigure the 138 kV lines to facilitate removal of the equipment at Willow Island switching station | APS (100%)              |
| b2235                              | 130 MVAR reactor at Monocacy 230 kV  | APS (100%)              |
| b2260                              | Install a 32.4 MVAR capacitor at Bartonville   | APS (100%)              |
| b2261                              | Install a 33 MVAR capacitor at Damascus  | APS (100%)              |
| b2267                              | Replace 1000 Cu substation conductor and 1200 amp wave trap at Marlowe   | APS (100%)              |
| b2268                              | Reconductor 6.8 miles of 138kV 336 ACSR with 336 ACSS from Double Toll Gate to Riverton  | APS (100%)              |
| b2299                              | Reconductor from Collins Ferry - West Run 138 kV with 556 ACSS   | APS (100%)              |
| b2300                              | Reconductor from Lake Lynn - West Run 138 kV   | APS (100%)              |
| b2342                              | Construct a new 138 kV switching station (Shuman Hill substation), which is next the Mobley 138 kV substation and install a 31.7 MVAR capacitor  | APS (100%)              |
| b2343                              | Install a 31.7 MVAR capacitor at West Union 138 kV substation  | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2433.1                            | Install breaker and a half 138 kV substation (Waldo Run) with 4 breakers to accommodate service to MarkWest Sherwood Facility including metering which is cut into Glen Falls Lamberton 138 kV line | APS (100%)              |
| b2433.2                            | Install a 70 MVAR SVC at the new WaldoRun 138 kV substation   | APS (100%)              |
| b2433.3                            | Install two 31.7 MVAR capacitors at the new WaldoRun 138 kV substation  | APS (100%)              |
| b2424                              | Replace the Weirton 138 kV breaker 'WYLIE RID210' with 63 kA breakers   | APS (100%)              |
| b2425                              | Replace the Weirton 138 kV breaker 'WYLIE RID216' with 63 kA breakers   | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2426                              | Replace the Oak Grove 138 kV breaker 'OG1' with 63 kA breakers   | APS (100%)              |
| b2427                              | Replace the Oak Grove 138 kV breaker 'OG2' with 63 kA breakers   | APS (100%)              |
| b2428                              | Replace the Oak Grove 138 kV breaker 'OG3' with 63 kA breakers   | APS (100%)              |
| b2429                              | Replace the Oak Grove 138 kV breaker 'OG4' with 63 kA breakers   | APS (100%)              |
| b2430                              | Replace the Oak Grove 138 kV breaker 'OG5' with 63 kA breakers   | APS (100%)              |
| b2431                              | Replace the Oak Grove 138 kV breaker 'OG6' with 63 kA breakers   | APS (100%)              |
| b2432                              | Replace the Ridgeley 138 kV breaker 'RC1' with a 40 kA rated breaker   | APS (100%)              |
| b2472                              | Replace the Ringgold 138 kV breaker 'RCM1' with 40kA breakers  | APS (100%)              |
| b2473                              | Replace the Ringgold 138 kV breaker '#4 XMFR' with 40kA breakers   | APS (100%)              |
| b2475                              | Construct a new line between Oak Mound 138 kV substation and Waldo Run 138 kV substation                             | APS (100%)              |
| b2545.1                            | Construct a new 138 kV substation (Shuman Hill substation) connected to the Fairview –Willow Island (84) 138 kV line | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s)   |
|------------------------------------|--|--|---|
| b2545.2                            | Install a ring bus station with five active positions and two 52.8 MVAR capacitors with 0.941 mH reactors  |  | APS (100%)  |
| b2545.3                            | Install a +90/-30 MVAR SVC protected by a 138 kV breaker   |  | APS (100%)  |
| b2545.4                            | Remove the 31.7 MVAR capacitor bank at Mobley 138 kV   |  | APS (100%)  |
| b2548                              | Eliminate clearance de-rate on Wylie Ridge – Smith 138 kV line and upgrade terminals at Smith 138 kV, new line ratings 294 MVA (Rate A)/350 MVA (Rate B) |  | APS (100%)  |
| b2672                              | Change CT Ratio at Seneca Caverns from 120/1 to 160/1 and adjust relay settings accordingly  |  | APS (100%)  |
| b2688.3                            | Carroll Substation: Replace the Germantown 138 kV wave trap, upgrade the bus conductor and adjust CT ratios  |  | 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%) / PEPSCO (15.85%) / RECO (0.12%) |
| b2700                              | Remove existing Black Oak SPS  |  | APS (100%)  |
| b2743.6                            | Reconfigure the Ringgold 230 kV substation to double bus double breaker scheme   |  | 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%) / PEPSCO (20.88%)                  |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2743.6.1                          | Replace the two Ringgold 230/138 kV transformers   | 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%) |
| b2743.7                            | Rebuild/Reconductor the Ringgold – Catocin 138 kV circuit and upgrade terminal equipment on both ends  | 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%) |
| b2747.1                            | Relocate the FirstEnergy Pratts 138 kV terminal CVTs at Gordonsville substation to allow for the installation of a new motor operated switch being installed by Dominion | APS (100%)  |
| b2764                              | Upgrade Fairview 138 kV breaker risers and disconnect leads; Replace 500 CU breaker risers and 556 ACSR disconnect leads with 795 ACSR                                   | APS (100%)  |
| b2964.1                            | Replace terminal equipment at Pruntytown and Glen Falls 138 kV station   | APS (100%)  |
| b2964.2                            | Reconductor approximately 8.3 miles of the McAlpin - White Hall Junction 138 kV circuit  | APS (100%)  |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2970                              | Ringgold – Catoctin Solution   | APS (100%)              |
| b2970.1                            | Install two new 230 kV positions at Ringgold for 230/138 kV transformers   | APS (100%)              |
| b2970.2                            | Install new 230 kV position for Ringgold – Catoctin 230 kV line  | APS (100%)              |
| b2970.3                            | Install one new 230 kV breaker at Catoctin substation  | APS (100%)              |
| b2970.4                            | Install new 230/138 kV transformer at Catoctin substation. Convert Ringgold – Catoctin 138 kV line to 230 kV operation | APS (100%)              |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)          |
|------------------------------------|--|----------------------------------|
| b2970.5                            | Convert Garfield 138/12.5 kV substation to 230/12.5 kV   | APS (100%)                       |
| b2996                              | Construct new Flint Run 500/138 kV substation  | See sub-IDs for cost allocations |
| b2996.1                            | Construct a new 500/138 kV substation as a 4-breaker ring bus with expansion plans for double-breaker-double-bus on the 500 kV bus and breaker-and-a-half on the 138 kV bus to provide EHV source to the Marcellus shale load growth area. Projected load growth of additional 160 MVA to current plan of 280 MVA, for a total load of 440 MVA served from Waldo Run substation. Construct additional 3-breaker string at Waldo Run 138 kV bus. Relocate the Sherwood #2 line terminal to the new string. Construct two single circuit Flint Run - Waldo Run 138 kV lines using 795 ACSR (approximately 3 miles). After terminal relocation on new 3-breaker string at Waldo Run, terminate new Flint Run 138 kV lines onto the two open terminals | APS (100%)                       |
| b2996.2                            | Loop the Belmont – Harrison 500 kV line into and out of the new Flint Run 500 kV substation (less than 1 mile). Replace primary relaying and carrier sets on Belmont and Harrison 500 kV remote end substations  | APS (100%)                       |
| b2996.3                            | Upgrade two (2) existing 138 kV breakers (Rider 50 and #1/4 transformer breaker) at Glen Falls with 63 kA 3000A units  | APS (100%)                       |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |                             |
|---------|--|--|-----------------------------|
| b3028   | Upgrade substation disconnect leads at William 138 kV substation           |  | APS (100%)                  |
| b3051.1 | Ronceverte cap bank and terminal upgrades                                  |  | APS (100%)                  |
| b3052   | Install a 138 kV capacitor (29.7 MVAR effective) at West Winchester 138 kV |  | APS (100%)                  |
| b3079   | Replace the Wylie Ridge 500/345 kV transformer #7                          |  | ATSI (72.30%) / DL (27.70%) |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---------------------------|
| b3128                              | Relocate 34.5 kV lines from generating station roof R. Paul Smith 138 kV station  | APS (100%)                |
| b3240                              | Upgrade Cherry Run and Morgan terminals to make the transmission line the limiting component  | APS (100%)                |
| b3241                              | Install 138 kV, 36 MVAR capacitor and a 5 uF reactor protected by a 138 kV capacitor switcher. Install a breaker on the 138 kV Junction terminal. Install a 138 kV 3.5 uF reactor on the existing Hardy 138 kV capacitor  | APS (100%)                |
| b3242                              | Reconfigure Stonewall 138 kV substation from its current configuration to a six-breaker, breaker-and-a-half layout and add two (2) 36 MVAR capacitors with capacitor switchers  | APS (100%)                |
| b3683                              | Reconductor the existing 556.5 ACSR line segments on the Messick Road – Ridgeley 138 kV line with 954 45/7 ACSR to achieve 308/376 MVA SN/SE and 349/445 MVA WN/WE ratings. Replace the remote end equipment for the line. The total length of the line is 5.02 miles | APS (100%)                |
| b3701                              | Replace terminal equipment at French's Mill and Junction 138 kV substations   | APS (100%)                |
| b3717.1                            | Install a series reactor on Cheswick - Springdale 138 kV line   | APS (1.93%) / DL (98.07%) |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |            |
|-------|---|--|------------|
| b3743 | At Bedington substation:<br>Replace substation conductor, wave trap, Current Transformers (CT's) and upgrade relaying<br>At Cherry Run substation:<br>Replace substation conductor, wave trap, CT's, disconnect switches, circuit breaker and upgrade relaying<br>At Marlowe substation: Replace substation conductor, wave trap, CT's and upgrade relaying |  | APS (100%) |
| b3746 | Install redundant relaying at Meadow Brook 500 kV substation  |  | APS (100%) |
| b3747 | Install redundant relaying at Bedington 500 kV substation   |  | APS (100%) |
| b3772 | Reconductor 27.3 miles of the Messick Road – Morgan 138 kV line from 556 ACSR to 954 ACSR. At Messick Road substation, replace 138 kV wave trap, circuit breaker, CT's, disconnect switch, and substation conductor and upgrade relaying. At Morgan substation, upgrade relaying  |  | APS (100%) |
| b3782 | Adjust relay settings at Riverton substation on the Riverton-Bethel Tap 138 kV line   |  | APS (100%) |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3800.8                            | Reconfigure Doubs 500 kV station and upgrade terminal equipment to new line  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPSCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (13.16%) / BGE (0.79%) / Dominion (74.28%) / DPL (0.41%) / PECO (0.77%) / PEPSCO (10.59%)</p> |
| b3800.9                            | Rebuild the existing Hunterstown - Carroll 115/138 kV Corridor as double circuit using 230 kV construction standards. New circuit will be operated at 230 kV. Existing circuit to remain at 115/138 kV | <p>This upgrade ID is only for tracking purpose. Cost allocation details are available from b3800.10 ~ b3800.18</p>  |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)    |
|------------------------------------|--|----------------------------|
| b3800.13                           | Rebuild the Germantown - Carroll 138 kV line to 230 kV double circuit construction (APS - PE Section)                | APS (82.49%) / ME (17.51%) |
| b3800.15                           | Construct new 230 kV Hunterstown - Carroll line (APS - PE Section)   | APS (99.86%) / ME (0.14%)  |
| b3800.16                           | Expand Carroll 230 kV substation to ring bus   | APS (99.86%) / ME (0.14%)  |
| b3800.17                           | Network upgrade at Carroll 230 kV substation   | APS (99.86%) / ME (0.14%)  |
| b3800.20                           | Fayetteville - Grand Point 138 kV - Replace line trap at Grand Point 138 kV station                                  | APS (100%)                 |
| b3800.21                           | Reid - Ringgold 138 kV line - Replace line trap, substation conductor, breaker, relaying and CTs at Ringgold station | APS (100%)                 |
| b3800.25                           | Taneytown 138 kV substation terminal upgrade   | APS (100%)                 |

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b3800.101                          | 502 Junction substation two 500 kV circuit breaker expansion | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (25.59%) / BGE (9.79%) / Dominion (51.94%) / PEPCO (12.68%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3800.103                          | Rebuild approximately 16 miles of the Gore - Stonewall 138 kV line with 500 kV overbuild (502 Junction to Woodside 500 kV line section) | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (25.59%) / BGE (9.79%) / Dominion (51.94%) / PEPCO (12.68%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3800.104                          | Rebuild approximately 15 miles of the Stonewall - Millville 138 kV line with 500 kV overbuild (502 Junction to Woodside 500 kV line section) | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> APS (9.18%) / BGE (7.21%) / Dominion (72.52%) / PEPCO (11.09%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3800.105                          | Rebuild approximately 6 miles of the Millville - Doubs 138 kV line with 500 kV overbuild (502 Junction to Woodside 500 kV line section) | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (9.18%) / BGE (7.21%) / Dominion (72.52%) / PEPCO (11.09%)</p> |
| b3800.111                          | Construct the Woodside - Stonewall 138 kV No. 1 line  | APS (100%)   |
| b3800.112                          | Construct the Woodside - Stonewall 138 kV No. 2 line  | APS (100%)   |
| b3800.114                          | Stonewall 138 kV substation two 138 kV breaker expansion  | APS (100%)   |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3800.116                          | Line work for terminating Doubs to Bismark line for Doubs side at Woodside 500 kV substation (FE Portion) | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (27.49%) / BGE (9.83%) / Dominion (53.78%) / PEPCO (8.90%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3800.122                          | Rebuild 500 kV line No. 514 from Doubs - Goose Creek 500 kV line. The Doubs - Goose Creek 500 kV line will be rebuilt and the Doubs - Dickerson 230 kV will be relocated and underbuilt on the same structure | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> APS (0.08%) / Dominion (99.90%) / PEPCO (0.02%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b3800.123                          | <p>Doubs substation work - Re-terminate the rebuilt Doubs - Goose Creek 500 kV line in its existing bay, terminate the new Doubs - Aspen 500 kV line in the open bay at Doubs, Replace three 500 kV breakers, Replace 500 kV terminal equipment including disconnect switches, CTs and substation conductor &amp; Replace relaying (APS Portion)</p> | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> APS (0.08%) / Dominion (99.90%) / PEPCO (0.02%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3800.124                          | New Doubs to Aspen 500 kV line (APS Portion)  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (0.08%) / Dominion (99.90%) / PEPCO (0.02%)</p> |
| b3800.125                          | Rebuild the Doubs - Dickerson 230 kV line. This will be underbuilt on the new Doubs - Goose Creek 500 kV line (APS Portion) | PEPCO (100%)  |
| b3800.126                          | Rebuild the Doubs - Aqueduct 230 kV line. This will be underbuilt on the new Doubs - Aspen 500 kV line (APS Portion)        | PEPCO (100%)  |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company and The Potomac Edison Company, doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|           |  |  |              |
|-----------|--|--|--------------|
| b3800.127 | Rebuild the Dickerson - Aqueduct 230 kV line. This will be underbuilt on the new Doubs - Aspen 500 kV line (APS Portion) |  | PEPCO (100%) |
| b3800.413 | Replace Double Toll Gate 138 kV breaker MDT 138 OCB with a breaker rated 40 kA   |  | APS (100%)   |
| b3800.414 | Replace Doubs 500 kV breaker DL-55 522LIN with a breaker rated 60 kA   |  | APS (100%)   |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 17 – American Electric Power Service Corp.  
Effective April 9, 2024  
Version 44.0.1

**SCHEDULE 12 – APPENDIX A**

- (17) **American Electric Power Service Corporation on behalf of its affiliate companies: AEP Appalachian Transmission Company, Inc.; AEP Indiana Michigan Transmission Company, Inc.; AEP Ohio Transmission Company, Inc.; AEP West Virginia Transmission Company, Inc.; Appalachian Power Company; Indiana Michigan Power Company; Kingsport Power Company; Ohio Power Company and Wheeling Power Company**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b1570.4                            | Add a 345 kV breaker at Marysville station and a 0.1 mile 345 kV line extension from Marysville to the new 345/69 kV Dayton transformer   | AEP (100%)  |
| b1660.1                            | Cloverdale: install 6-765 kV breakers, incremental work for 2 additional breakers, reconfigure and relocate miscellaneous facilities, establish 500 kV station and 500 kV tie with 765 kV station | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     AEP (37.66%) / BGE (26.21%) / Dayton (0.01%) / DEOK (0.02%) / EKPC (0.01%) / PEPCO (36.09%)</p> |

\*Neptune Regional Transmission System, LLC

**American Electric Power Service Corporation on behalf of its affiliate companies: AEP Appalachian Transmission Company, Inc.; AEP Indiana Michigan Transmission Company, Inc.; AEP Ohio Transmission Company, Inc.; AEP West Virginia Transmission Company, Inc.; Appalachian Power Company; Indiana Michigan Power Company; Kingsport Power Company; Ohio Power Company and Wheeling Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b1797.1                            | Reconductor the AEP portion of the Cloverdale - Lexington 500 kV line with 2-1780 ACSS                           | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     AEP (0.06%) / BGE (19.46%) / Dayton (0.02%) / DEOK (0.04%) / Dominion (53.61%) / EKPC (0.02%) / PEPCO (26.79%)</p> |
| b2055                              | Upgrade relay at Brues station   | AEP (100%)   |
| b2122.3                            | Upgrade terminal equipment at Howard on the Howard - Brookside 138 kV line to achieve ratings of 252/291 (SN/SE) | AEP (100%)   |
| b2122.4                            | Perform a sag study on the Howard - Brookside 138 kV line  | AEP (100%)   |
| b2229                              | Install a 300 MVAR reactor at Dequine 345 kV   | AEP (100%)   |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2230                              | Replace existing 150 MVAR reactor at Amos 765 kV substation on Amos - N. Proctorville - Hanging Rock with 300 MVAR reactor          | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     AEP (100%)</p> |
| b2231                              | Install 765 kV reactor breaker at Dumont 765 kV substation on the Dumont - Wilton Center line                                       | AEP (100%)   |
| b2232                              | Install 765 kV reactor breaker at Marysville 765 kV substation on the Marysville - Maliszewski line                                 | AEP (100%)   |
| b2233                              | Change transformer tap settings for the Baker 765/345 kV transformer  | AEP (100%)   |
| b2252                              | Loop the North Muskingum - Crooksville 138 kV line into AEP's Philo 138 kV station which lies approximately 0.4 miles from the line | AEP (100%)   |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2253                              | Install an 86.4 MVAR capacitor bank at Gorsuch 138 kV station in Ohio   | AEP (100%)              |
| b2254                              | Rebuild approximately 4.9 miles of Corner - Degussa 138 kV line in Ohio   | AEP (100%)              |
| b2255                              | Rebuild approximately 2.8 miles of Maliszewski - Polaris 138 kV line in Ohio  | AEP (100%)              |
| b2256                              | Upgrade approximately 36 miles of 138 kV through path facilities between Harrison 138 kV station and Ross 138 kV station in Ohio  | AEP (100%)              |
| b2257                              | Rebuild the Pokagon - Corey 69 kV line as a double circuit 138 kV line with one side at 69 kV and the other side as an express circuit between Pokagon and Corey stations | AEP (100%)              |
| b2258                              | Rebuild 1.41 miles of #2 CU 46 kV line between Tams Mountain - Slab Fork to 138 kV standards. The line will be strung with 1033 ACSR                                      | AEP (100%)              |
| b2259                              | Install a new 138/69 kV transformer at George Washington 138/69 kV substation to provide support to the 69 kV system in the area  | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s) |
|------------------------------------|---|--|-------------------------|
| b2286                              | Rebuild 4.7 miles of Muskingum River - Wolf Creek 138 kV line and remove the 138/138 kV transformer at Wolf Creek Station |  | AEP (100%)              |
| b2287                              | Loop in the Meadow Lake - Olive 345 kV circuit into Reynolds 765/345 kV station   |  | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2344.1 | Establish a new 138/12 kV station, transfer and consolidate load from its Nicholasville and Marcellus 34.5 kV stations at this new station |  | AEP (100%) |
| b2344.2 | Tap the Hydramatic – Valley 138 kV circuit (~ structure 415), build a new 138 kV line (~3.75 miles) to this new station                    |  | AEP (100%) |
| b2344.3 | From this station, construct a new 138 kV line (~1.95 miles) to REA’s Marcellus station  |  | AEP (100%) |
| b2344.4 | From REA’s Marcellus station construct new 138 kV line (~2.35 miles) to a tap point on Valley – Hydramatic 138 kV ckt (~structure 434)     |  | AEP (100%) |
| b2344.5 | Retire sections of the 138 kV line in between structure 415 and 434 (~ 2.65 miles)   |  | AEP (100%) |
| b2344.6 | Retire AEP’s Marcellus 34.5/12 kV and Nicholasville 34.5/12 kV stations and also the Marcellus – Valley 34.5 kV line                       |  | AEP (100%) |
| b2345.1 | Construct a new 69 kV line from Hartford to Keeler (~8 miles)  |  | AEP (100%) |
| b2345.2 | Rebuild the 34.5 kV lines between Keeler - Sister Lakes and Glenwood tap switch to 69 kV (~12 miles)                                       |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2345.3 | Implement in - out at Keeler and Sister Lakes 34.5 kV stations  |  | AEP (100%) |
| b2345.4 | Retire Glenwood tap switch and construct a new Rothadew station. These new lines will continue to operate at 34.5 kV  |  | AEP (100%) |
| b2346   | Perform a sag study for Howard - North Bellville - Millwood 138 kV line including terminal equipment upgrades   |  | AEP (100%) |
| b2347   | Replace the North Delphos 600A switch. Rebuild approximately 18.7 miles of 138 kV line North Delphos - S073. Reconductor the line and replace the existing tower structures |  | AEP (100%) |
| b2348   | Construct a new 138 kV line from Richlands Station to intersect with the Hales Branch - Grassy Creek 138 kV circuit   |  | AEP (100%) |
| b2374   | Change the existing CT ratios of the existing equipment along Bearskin - Smith Mountain 138kV circuit   |  | AEP (100%) |
| b2375   | Change the existing CT ratios of the existing equipment along East Danville-Banister 138kV circuit  |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2376                              | Replace the Turner 138 kV breaker 'D'       | AEP (100%)              |
| b2377                              | Replace the North Newark 138 kV breaker 'P' | AEP (100%)              |
| b2378                              | Replace the Sporn 345 kV breaker 'DD'       | AEP (100%)              |
| b2379                              | Replace the Sporn 345 kV breaker 'DD2'      | AEP (100%)              |
| b2380                              | Replace the Muskingum 345 kV breaker 'SE'   | AEP (100%)              |
| b2381                              | Replace the East Lima 138 kV breaker 'E1'   | AEP (100%)              |
| b2382                              | Replace the Delco 138 kV breaker 'R'        | AEP (100%)              |
| b2383                              | Replace the Sporn 345 kV breaker 'AA2'      | AEP (100%)              |
| b2384                              | Replace the Sporn 345 kV breaker 'CC'       | AEP (100%)              |
| b2385                              | Replace the Sporn 345 kV breaker 'CC2'      | AEP (100%)              |
| b2386                              | Replace the Astor 138 kV breaker '102'      | AEP (100%)              |
| b2387                              | Replace the Muskingum 345 kV breaker 'SH'   | AEP (100%)              |
| b2388                              | Replace the Muskingum 345 kV breaker 'SI'   | AEP (100%)              |
| b2389                              | Replace the Hyatt 138 kV breaker '105N'     | AEP (100%)              |
| b2390                              | Replace the Muskingum 345 kV breaker 'SG'   | AEP (100%)              |
| b2391                              | Replace the Hyatt 138 kV breaker '101C'     | AEP (100%)              |
| b2392                              | Replace the Hyatt 138 kV breaker '104N'     | AEP (100%)              |
| b2393                              | Replace the Hyatt 138 kV breaker '104S'     | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2394                              | Replace the Sporn 345 kV breaker 'CC1'  | AEP (100%)   |
| b2409                              | Install two 56.4 MVAR capacitor banks at the Melmore 138 kV station in Ohio   | AEP (100%)   |
| b2410                              | Convert Hogan Mullin 34.5 kV line to 138 kV, establish 138 kV line between Jones Creek and Strawton, rebuild existing Mullin Elwood 34.5 kV and terminate line into Strawton station, retire Mullin station | AEP (100%)   |
| b2411                              | Rebuild the 3/0 ACSR portion of the Hadley - Kroemer Tap 69 kV line utilizing 795 ACSR conductor  | AEP (100%)   |
| b2423                              | Install a 300 MVAR shunt reactor at AEP's Wyoming 765 kV station  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/> AEP (100%)</p> |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2444   | Willow - Eureka 138 kV line: Reconductor 0.26 mile of 4/0 CU with 336 ACSS   |  | AEP (100%) |
| b2445   | Complete a sag study of Tidd - Mahans Lake 138 kV line   |  | AEP (100%) |
| b2449   | Rebuild the 7-mile 345 kV line between Meadow Lake and Reynolds 345 kV stations  |  | AEP (100%) |
| b2462   | Add two 138 kV circuit breakers at Fremont station to fix tower contingency '408 2'  |  | AEP (100%) |
| b2501   | Construct a new 138/69 kV Yager station by tapping 2-138 kV FE circuits (Nottingham-Cloverdale, Nottingham-Harmon)                     |  | AEP (100%) |
| b2501.2 | Build a new 138 kV line from new Yager station to Azalea station   |  | AEP (100%) |
| b2501.3 | Close the 138 kV loop back into Yager 138 kV by converting part of local 69 kV facilities to 138 kV                                    |  | AEP (100%) |
| b2501.4 | Build 2 new 69 kV exits to reinforce 69 kV facilities and upgrade conductor between Irish Run 69 kV Switch and Bowerstown 69 kV Switch |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2502.1 | Construct new 138 kV switching station Nottingham tapping 6-138 kV FE circuits (Holloway-Brookside, Holloway-Harmon #1 and #2, Holloway-Reeds, Holloway-New Stacy, Holloway-Cloverdale). Exit a 138 kV circuit from new station to Freebyrd station |  | AEP (100%) |
| b2502.2 | Convert Freebyrd 69 kV to 138 kV  |  | AEP (100%) |
| b2502.3 | Rebuild/convert Freebyrd-South Cadiz 69 kV circuit to 138 kV  |  | AEP (100%) |
| b2502.4 | Upgrade South Cadiz to 138 kV breaker and a half  |  | AEP (100%) |
| b2530   | Replace the Sporn 138 kV breaker 'G1' with 80 kA breaker  |  | AEP (100%) |
| b2531   | Replace the Sporn 138 kV breaker 'D' with 80 kA breaker   |  | AEP (100%) |
| b2532   | Replace the Sporn 138 kV breaker 'O1' with 80 kA breaker  |  | AEP (100%) |
| b2533   | Replace the Sporn 138 kV breaker 'P2' with 80 kA breaker  |  | AEP (100%) |
| b2534   | Replace the Sporn 138 kV breaker 'U' with 80 kA breaker   |  | AEP (100%) |
| b2535   | Replace the Sporn 138 kV breaker 'O' with 80 kA breaker   |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |            |
|-------|---|--|------------|
| b2536 | Replace the Sporn 138 kV breaker 'O2' with 80 kA breaker  |  | AEP (100%) |
| b2537 | Replace the Robinson Park 138 kV breakers A1, A2, B1, B2, C1, C2, D1, D2, E1, E2, and F1 with 63 kA breakers  |  | AEP (100%) |
| b2555 | Reconductor 0.5 miles Tiltonsville – Windsor 138 kV and string the vacant side of the 4.5 mile section using 556 ACSR in a six wire configuration   |  | AEP (100%) |
| b2556 | Install two 138 kV prop structures to increase the maximum operating temperature of the Clinch River- Clinch Field 138 kV line  |  | AEP (100%) |
| b2581 | Temporary operating procedure for delay of upgrade b1464. Open the Corner 138 kV circuit breaker 86 for an overload of the Corner – Washington MP 138 kV line. The tower contingency loss of Belmont – Trissler 138 kV and Belmont – Edgelawn 138 kV should be added to Operational contingency |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2591   | Construct a new 69 kV line approximately 2.5 miles from Colfax to Drewry's. Construct a new Drewry's station and install a new circuit breaker at Colfax station.               |  | AEP (100%) |
| b2592   | Rebuild existing East Coshocton – North Coshocton double circuit line which contains Newcomerstown – N. Coshocton 34.5 kV Circuit and Coshocton – North Coshocton 69 kV circuit |  | AEP (100%) |
| b2593   | Rebuild existing West Bellaire – Glencoe 69 kV line with 138 kV & 69 kV circuits and install 138/69 kV transformer at Glencoe Switch  |  | AEP (100%) |
| b2594   | Rebuild 1.0 mile of Brantley – Bridge Street 69 kV Line with 1033 ACSR overhead conductor   |  | AEP (100%) |
| b2595.1 | Rebuild 7.82 mile Elkhorn City – Haysi S.S 69 kV line utilizing 1033 ACSR built to 138 kV standards   |  | AEP (100%) |
| b2595.2 | Rebuild 5.18 mile Moss – Haysi SS 69 kV line utilizing 1033 ACSR built to 138 kV standards  |  | AEP (100%) |
| b2596   | Move load from the 34.5 kV bus to the 138 kV bus by installing a new 138/12 kV XF at New Carlisle station in Indiana  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2597   | Rebuild approximately 1 mi. section of Dragoon-Virgil Street 34.5 kV line between Dragoon and Dodge Tap switch and replace Dodge switch MOAB to increase thermal capability of Dragoon-Dodge Tap branch |  | AEP (100%) |
| b2598   | Rebuild approximately 1 mile section of the Kline-Virgil Street 34.5 kV line between Kline and Virgil Street tap. Replace MOAB switches at Beiger, risers at Kline, switches and bus at Virgil Street   |  | AEP (100%) |
| b2599   | Rebuild approximately 0.1 miles of 69 kV line between Albion and Albion tap   |  | AEP (100%) |
| b2600   | Rebuild Fremont – Pound line as 138 kV  |  | AEP (100%) |
| b2601   | Fremont Station Improvements  |  | AEP (100%) |
| b2601.1 | Replace MOAB towards Beaver Creek with 138 kV breaker   |  | AEP (100%) |
| b2601.2 | Replace MOAB towards Clinch River with 138 kV breaker   |  | AEP (100%) |
| b2601.3 | Replace 138 kV Breaker A with new bus-tie breaker   |  | AEP (100%) |
| b2601.4 | Re-use Breaker A as high side protection on transformer #1  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2601.5 | Install two (2) circuit switchers on high side of transformers # 2 and 3 at Fremont Station  |  | AEP (100%) |
| b2602.1 | Install 138 kV breaker E2 at North Proctorville  |  | AEP (100%) |
| b2602.2 | Construct 2.5 Miles of 138 kV 1033 ACSR from East Huntington to Darrah 138 kV substations  |  | AEP (100%) |
| b2602.3 | Install breaker on new line exit at Darrah towards East Huntington   |  | AEP (100%) |
| b2602.4 | Install 138 kV breaker on new line at East Huntington towards Darrah   |  | AEP (100%) |
| b2602.5 | Install 138 kV breaker at East Huntington towards North Proctorville   |  | AEP (100%) |
| b2603   | Boone Area Improvements  |  | AEP (100%) |
| b2603.1 | Purchase approximately a 200X300 station site near Slaughter Creek 46 kV station (Wilbur Station)  |  | AEP (100%) |
| b2603.2 | Install 3 138 kV circuit breakers, Cabin Creek to Hernshaw 138 kV circuit  |  | AEP (100%) |
| b2603.3 | Construct 1 mi. of double circuit 138 kV line on Wilbur – Boone 46 kV line with 1590 ACSS 54/19 conductor @ 482 Degree design temp. and 1-159 12/7 ACSR and one 86 Sq.MM. 0.646” OPGW Static wires |  | AEP (100%) |
| b2604   | Bellefonte Transformer Addition  |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2604.1                            | Remove approximately 11.32 miles of the 69 kV line between Millbrook Park and Franklin Furnace   | AEP (100%)              |
| b2604.2                            | At Millbrook Park station, add a new 138/69 kV Transformer #2 (90 MVA) with 3000 A 40 kA breakers on the high and low side. Replace the 600 A MOAB switch and add a 3000 A circuit switcher on the high side of Transformer #1 | AEP (100%)              |
| b2604.3                            | Replace Sciotoville 69 kV station with a new 138/12 kV in-out station (Cottrell) with 2000 A line MOABs facing Millbrook Park and East Wheelersburg 138 kV station   | AEP (100%)              |
| b2604.4                            | Tie Cottrell switch into the Millbrook Park – East Wheelersburg 138 kV circuit by constructing 0.50 mile of line using 795 ACSR 26/7 Drake (SE 359 MVA)  | AEP (100%)              |
| b2604.5                            | Install a new 2000 A 3-way PoP switch outside of Texas Eastern 138 kV substation (Sadiq switch)  | AEP (100%)              |
| b2604.6                            | Replace the Wheelersburg 69 kV station with a new 138/12 kV in-out station (Sweetgum) with a 3000 A 40 kA breaker facing Sadiq switch and a 2000 A 138 kV MOAB facing Althea   | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |  |  |            |
|----------|--|--|------------|
| b2604.7  | Build approximately 1.4 miles of new 138 kV line using 795 ACSR 26/7 Drake (SE 359 MVA) between the new Sadiq switch and the new Sweetgum 138 kV station   |  | AEP (100%) |
| b2604.8  | Remove the existing 69 kV Hayport Road switch  |  | AEP (100%) |
| b2604.9  | Rebuild approximately 2.3 miles along existing Right-Of-Way from Sweetgum to the Hayport Road switch 69 kV location as 138 kV single circuit and rebuild approximately 2.0 miles from the Hayport Road switch to Althea 69 kV with double circuit 138 kV construction, one side operated at 69 kV to continue service to K.O. Wheelersburg, using 795 ACSR 26/7 Drake (SE 359 MVA) |  | AEP (100%) |
| b2604.10 | Build a new station (Althea) with a 138/69 kV, 90 MVA transformer. The 138 kV side will have a single 2000 A 40 kA circuit breaker and the 69 kV side will be a 2000 A 40 kA three breaker ring bus  |  | AEP (100%) |
| b2604.11 | Remote end work at Hanging Rock, East Wheelersburg and North Haverhill 138 kV  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2605   | Rebuild and reconductor Kammer – George Washington 69 kV circuit and George Washington – Moundsville ckt #1, designed for 138 kV. Upgrade limiting equipment at remote ends and at tap stations |  | AEP (100%) |
| b2606   | Convert Bane – Hammondsville from 23 kV to 69 kV operation  |  | AEP (100%) |
| b2607   | Pine Gap Relay Limit Increase   |  | AEP (100%) |
| b2608   | Richlands Relay Upgrade   |  | AEP (100%) |
| b2609   | Thorofare – Goff Run – Powell Mountain 138 kV Build   |  | AEP (100%) |
| b2610   | Rebuild Pax Branch – Scaraboro as 138 kV  |  | AEP (100%) |
| b2611   | Skin Fork Area Improvements   |  | AEP (100%) |
| b2611.1 | New 138/46 kV station near Skin Fork and other components   |  | AEP (100%) |
| b2611.2 | Construct 3.2 miles of 1033 ACSR double circuit from new Station to cut into Sundial-Baileysville 138 kV line   |  | AEP (100%) |
| b2634.1 | Replace metering BCT on Tanners Creek CB T2 with a slip over CT with higher thermal rating in order to remove 1193 MVA limit on facility (Miami Fort-Tanners Creek 345 kV line)                 |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)     |
|------------------------------------|--|-----------------------------|
| b2643                              | Replace the Darrah 138 kV breaker 'L' with 40 kA rated breaker   | AEP (100%)                  |
| b2645                              | Ohio Central 138 kV Loop   | AEP (100%)                  |
| b2667                              | Replace the Muskingum 138 kV bus # 1 and 2   | AEP (100%)                  |
| b2668                              | Reconductor Dequine to Meadow Lake 345 kV circuit #1 utilizing dual 954 ACSR 54/7 cardinal conductor   | AEP (98.19%) / OVEC (1.81%) |
| b2668.1                            | Replace the bus/risers at Dequine 345 kV station   | AEP (100%)                  |
| b2669                              | Install a second 345/138 kV transformer at Desoto  | AEP (100%)                  |
| b2670                              | Replace switch at Elk Garden 138 kV substation (on the Elk Garden – Lebanon 138 kV circuit)  | AEP (100%)                  |
| b2671                              | Replace/upgrade/add terminal equipment at Bradley, Mullensville, Pinnacle Creek, Itmann, and Tams Mountain 138 kV substations. Sag study on Mullens – Wyoming and Mullens – Tams Mt. 138 kV circuits | AEP (100%)                  |

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| Required Transmission Enhancements | Annual Revenue Requirement                                     | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2687.1                            | Install a +/- 450 MVAR SVC at Jacksons Ferry 765 kV substation | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     AEP (100%)</p> |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2687.2                            | Install a 300 MVAR shunt line reactor on the Broadford end of the Broadford – Jacksons Ferry 765 kV line   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     AEP (100%)</p> |
| b2697.1                            | Mitigate violations identified by sag study to operate Fieldale-Thornton-Franklin 138 kV overhead line conductor at its max. operating temperature. 6 potential line crossings to be addressed | AEP (100%)   |
| b2697.2                            | Replace terminal equipment at AEP’s Danville and East Danville substations to improve thermal capacity of Danville – East Danville 138 kV circuit  | AEP (100%)   |

\*Neptune Regional Transmission System, LLC

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2698   | Replace relays at AEP's Cloverdale and Jackson's Ferry substations to improve the thermal capacity of Cloverdale – Jackson's Ferry 765 kV line |  | AEP (100%) |
| b2701.1 | Construct Herlan station as breaker and a half configuration with 9-138 kV CB's on 4 strings and with 2-28.8 MVAR capacitor banks              |  | AEP (100%) |
| b2701.2 | Construct new 138 kV line from Herlan station to Blue Racer station. Estimated approx. 3.2 miles of 1234 ACSS/TW Yukon and OPGW                |  | AEP (100%) |
| b2701.3 | Install 1-138 kV CB at Blue Racer to terminate new Herlan circuit  |  | AEP (100%) |
| b2714   | Rebuild/upgrade line between Glencoe and Willow Grove Switch 69 kV   |  | AEP (100%) |
| b2715   | Build approximately 11.5 miles of 34.5 kV line with 556.5 ACSR 26/7 Dove conductor on wood poles from Flushing station to Smyrna station       |  | AEP (100%) |
| b2727   | Replace the South Canton 138 kV breakers 'K', 'J', 'J1', and 'J2' with 80 kA breakers  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2731   | Convert the Sunnyside – East Sparta – Malvern 23 kV sub-transmission network to 69 kV. The lines are already built to 69 kV standards  |  | AEP (100%) |
| b2733   | Replace South Canton 138 kV breakers ‘L’ and ‘L2’ with 80 kA rated breakers  |  | AEP (100%) |
| b2750.1 | Retire Betsy Layne 138/69/43 kV station and replace it with the greenfield Stanville station about a half mile north of the existing Betsy Layne station   |  | AEP (100%) |
| b2750.2 | Relocate the Betsy Layne capacitor bank to the Stanville 69 kV bus and increase the size to 14.4 MVAR  |  | AEP (100%) |
| b2753.1 | Replace existing George Washington station 138 kV yard with GIS 138 kV breaker and a half yard in existing station footprint. Install 138 kV revenue metering for new IPP connection             |  | AEP (100%) |
| b2753.2 | Replace Dilles Bottom 69/4 kV Distribution station as breaker and a half 138 kV yard design including AEP Distribution facilities but initial configuration will constitute a 3 breaker ring bus |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2753.3 | Connect two 138 kV 6-wired circuits from “Point A” (currently de-energized and owned by FirstEnergy) in circuit positions previously designated Burger #1 & Burger #2 138 kV. Install interconnection settlement metering on both circuits exiting Holloway |  | AEP (100%) |
| b2753.6 | Build double circuit 138 kV line from Dilles Bottom to “Point A”. Tie each new AEP circuit in with a 6-wired line at Point A. This will create a Dilles Bottom – Holloway 138 kV circuit and a George Washington – Holloway 138 kV circuit                  |  | AEP (100%) |
| b2753.7 | Retire line sections (Dilles Bottom – Bellaire and Moundsville – Dilles Bottom 69 kV lines) south of FirstEnergy 138 kV line corridor, near “Point A”. Tie George Washington – Moundsville 69 kV circuit to George Washington – West Bellaire 69 kV circuit |  | AEP (100%) |
| b2753.8 | Rebuild existing 69 kV line as double circuit from George Washington – Dilles Bottom 138 kV. One circuit will cut into Dilles Bottom 138 kV initially and the other will go past with future plans to cut in  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |                             |
|---------|--|--|-----------------------------|
| b2760   | Perform a Sag Study of the Saltville – Tazewell 138 kV line to increase the thermal rating of the line   |  | AEP (100%)                  |
| b2761.2 | Perform a Sag Study of the Hazard – Wooten 161 kV line to increase the thermal rating of the line  |  | AEP (100%)                  |
| b2761.3 | Rebuild the Hazard – Wooten 161 kV line utilizing 795 26/7 ACSR conductor (300 MVA rating)   |  | AEP (100%)                  |
| b2762   | Perform a Sag Study of Nagel – West Kingsport 138 kV line to increase the thermal rating of the line   |  | AEP (100%)                  |
| b2776   | Reconductor the entire Dequine – Meadow Lake 345 kV circuit #2   |  | AEP (98.19%) / OVEC (1.81%) |
| b2777   | Reconductor the entire Dequine – Eugene 345 kV circuit #1  |  | AEP (100%)                  |
| b2779.1 | Construct a new 138 kV station, Campbell Road, tapping into the Grabill – South Hicksville 138 kV line   |  | AEP (100%)                  |
| b2779.2 | Reconstruct sections of the Butler-N.Hicksville and Auburn-Butler 69 kV circuits as 138 kV double circuit and extend 138 kV from Campbell Road station |  | AEP (100%)                  |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2779.3 | Construct a new 345/138 kV SDI Wilmington Station which will be sourced from Collingwood 345 kV and serve the SDI load at 345 kV and 138 kV, respectively  |  | AEP (100%) |
| b2779.4 | Loop 138 kV circuits in-out of the new SDI Wilmington 138 kV station resulting in a direct circuit to Auburn 138 kV and an indirect circuit to Auburn and Rob Park via Dunton Lake, and a circuit to Campbell Road; Reconductor 138 kV line section between Dunton Lake – SDI Wilmington |  | AEP (100%) |
| b2779.5 | Expand Auburn 138 kV bus   |  | AEP (100%) |
| b2779.6 | Construct a 345 kV ring bus at Dunton Lake to serve Steel Dynamics, Inc. (SDI) load at 345 kV via two (2) circuits   |  | AEP (100%) |
| b2779.7 | Retire Collingwood 345 kV station  |  | AEP (100%) |
| b2787   | Reconductor 0.53 miles (14 spans) of the Kaiser Jct. - Air Force Jct. Sw section of the Kaiser - Heath 69 kV circuit/line with 336 ACSR to match the rest of the circuit (73 MVA rating, 78% loading)  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |  |  |            |
|-------|--|--|------------|
| b2788 | Install a new 3-way 69 kV line switch to provide service to AEP's Barnesville distribution station. Remove a portion of the #1 copper T-Line from the 69 kV through-path |  | AEP (100%) |
| b2789 | Rebuild the Brues - Glendale Heights 69 kV line section (5 miles) with 795 ACSR (128 MVA rating, 43% loading)  |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2790                              | Install a 3 MVAR, 34.5 kV cap bank at Caldwell substation   | AEP (100%)              |
| b2791                              | Rebuild Tiffin – Howard, new transformer at Chatfield   | AEP (100%)              |
| b2791.1                            | Rebuild portions of the East Tiffin - Howard 69 kV line from East Tiffin to West Rockaway Switch (0.8 miles) using 795 ACSR Drake conductor (129 MVA rating, 50% loading)   | AEP (100%)              |
| b2791.2                            | Rebuild Tiffin - Howard 69 kV line from St. Stephen’s Switch to Hinesville (14.7 miles) using 795 ACSR Drake conductor (90 MVA rating, non-conductor limited, 38% loading)  | AEP (100%)              |
| b2791.3                            | New 138/69 kV transformer with 138/69 kV protection at Chatfield  | AEP (100%)              |
| b2791.4                            | New 138/69 kV protection at existing Chatfield transformer  | AEP (100%)              |
| b2792                              | Replace the Elliott transformer with a 130 MVA unit, reconductor 0.42 miles of the Elliott – Ohio University 69 kV line with 556 ACSR to match the rest of the line conductor (102 MVA rating, 73% loading) and rebuild 4 miles of the Clark Street – Strouds R | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2793                              | Energize the spare Fremont Center 138/69 kV 130 MVA transformer #3. Reduces overloaded facilities to 46% loading   | AEP (100%)              |
| b2794                              | Construct new 138/69/34 kV station and 1-34 kV circuit (designed for 69 kV) from new station to Decliff station, approximately 4 miles, with 556 ACSR conductor (51 MVA rating)                | AEP (100%)              |
| b2795                              | Install a 34.5 kV 4.8 MVAR capacitor bank at Killbuck 34.5 kV station  | AEP (100%)              |
| b2796                              | Rebuild the Malvern - Oneida Switch 69 kV line section with 795 ACSR (1.8 miles, 125 MVA rating, 55% loading)  | AEP (100%)              |
| b2797                              | Rebuild the Ohio Central - Conesville 69 kV line section (11.8 miles) with 795 ACSR conductor (128 MVA rating, 57% loading). Replace the 50 MVA Ohio Central 138/69 kV XFMR with a 90 MVA unit | AEP (100%)              |
| b2798                              | Install a 14.4 MVAR capacitor bank at West Hicksville station. Replace ground switch/MOAB at West Hicksville with a circuit switcher   | AEP (100%)              |
| b2799                              | Rebuild Valley - Almena, Almena - Hartford, Riverside - South Haven 69 kV lines. New line exit at Valley Station. New transformers at Almena and Hartford                                      | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2799.1                            | Rebuild 12 miles of Valley – Almena 69 kV line as a double circuit 138/69 kV line using 795 ACSR conductor (360 MVA rating) to introduce a new 138 kV source into the 69 kV load pocket around Almena station | AEP (100%)              |
| b2799.2                            | Rebuild 3.2 miles of Almena to Hartford 69 kV line using 795 ACSR conductor (90 MVA rating)   | AEP (100%)              |
| b2799.3                            | Rebuild 3.8 miles of Riverside – South Haven 69 kV line using 795 ACSR conductor (90 MVA rating)  | AEP (100%)              |
| b2799.4                            | At Valley station, add new 138 kV line exit with a 3000 A 40 kA breaker for the new 138 kV line to Almena and replace CB D with a 3000 A 40 kA breaker  | AEP (100%)              |
| b2799.5                            | At Almena station, install a 90 MVA 138/69 kV transformer with low side 3000 A 40 kA breaker and establish a new 138 kV line exit towards Valley  | AEP (100%)              |
| b2799.6                            | At Hartford station, install a second 90 MVA 138/69 kV transformer with a circuit switcher and 3000 A 40 kA low side breaker  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2817                              | Replace Delaware 138 kV breaker 'P' with a 40 kA breaker                         | AEP (100%)              |
| b2818                              | Replace West Huntington 138 kV breaker 'F' with a 40 kA breaker                  | AEP (100%)              |
| b2819                              | Replace Madison 138 kV breaker 'V' with a 63 kA breaker                          | AEP (100%)              |
| b2820                              | Replace Sterling 138 kV breaker 'G' with a 40 kA breaker                         | AEP (100%)              |
| b2821                              | Replace Morse 138 kV breakers '103', '104', '105', and '106' with 63 kA breakers | AEP (100%)              |
| b2822                              | Replace Clinton 138 kV breakers '105' and '107' with 63 kA breakers              | AEP (100%)              |
| b2826.1                            | Install 300 MVAR reactor at Ohio Central 345 kV substation                       | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |  |
|---------|--|--|--|
| b2826.2 | Install 300 MVAR reactor at West Bellaire 345 kV substation  |  | AEP (100%)   |
| b2831.1 | Upgrade the Tanner Creek – Miami Fort 345 kV circuit (AEP portion)   |  | <b>DFAX Allocation:</b><br>AEP (24.63%) / Dayton (38.63%)<br>/ DEOK (36.74%) |
| b2832   | Six wire the Kyger Creek – Sporn 345 kV circuits #1 and #2 and convert them to one circuit                                       |  | AEP (100%)   |
| b2833   | Reconductor the Maddox Creek – East Lima 345 kV circuit with 2-954 ACSS Cardinal conductor                                       |  | <b>DFAX Allocation:</b><br>AEP (75.78%) / Dayton (24.22%)                    |
| b2834   | Reconductor and string open position and sixwire 6.2 miles of the Chemical – Capitol Hill 138 kV circuit                         |  | AEP (100%)   |
| b2872   | Replace the South Canton 138 kV breaker ‘K2’ with a 80 kA breaker  |  | AEP (100%)   |
| b2873   | Replace the South Canton 138 kV breaker “M” with a 80 kA breaker   |  | AEP (100%)   |
| b2874   | Replace the South Canton 138 kV breaker “M2” with a 80 kA breaker  |  | AEP (100%)   |
| b2878   | Upgrade the Clifty Creek 345 kV risers   |  | AEP (100%)   |
| b2880   | Rebuild approximately 4.77 miles of the Cannonsburg – South Neal 69 kV line section utilizing 795 ACSR conductor (90 MVA rating) |  | AEP (100%)   |

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| Required Transmission Enhancements  | Annual Revenue Requirement | Responsible Customer(s) |
|---|----------------------------|-------------------------|
| b2881<br>Rebuild ~1.7 miles of the Dunn Hollow – London 46 kV line section utilizing 795 26/7 ACSR conductor (58 MVA rating, non-conductor limited)   |                            | AEP (100%)              |
| b2882<br>Rebuild Reusens - Peakland Switch 69 kV line. Replace Peakland Switch  |                            | AEP (100%)              |
| b2882.1<br>Rebuild the Reusens - Peakland Switch 69 kV line (approximately 0.8 miles) utilizing 795 ACSR conductor (86 MVA rating, non-conductor limited)   |                            | AEP (100%)              |
| b2882.2<br>Replace existing Peakland S.S with new 3 way switch phase over phase structure   |                            | AEP (100%)              |
| b2883<br>Rebuild the Craneco – Pardee – Three Forks – Skin Fork 46 kV line section (approximately 7.2 miles) utilizing 795 26/7 ACSR conductor (108 MVA rating)   |                            | AEP (100%)              |
| b2884<br>Install a second transformer at Nagel station, comprised of 3 single phase 250 MVA 500/138 kV transformers. Presently, TVA operates their end of the Boone Dam – Holston 138 kV interconnection as normally open preemptively for the loss of the existing Nagel |                            | AEP (100%)              |
| b2885<br>New delivery point for City of Jackson   |                            | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2885.1                            | Install a new Ironman Switch to serve a new delivery point requested by the City of Jackson for a load increase request   | AEP (100%)              |
| b2885.2                            | Install a new 138/69 kV station (Rhodes) to serve as a third source to the area to help relieve overloads caused by the customer load increase                      | AEP (100%)              |
| b2885.3                            | Replace Coalton Switch with a new three breaker ring bus (Heppner)  | AEP (100%)              |
| b2886                              | Install 90 MVA 138/69 kV transformer, new transformer high and low side 3000 A 40 kA CBs, and a 138 kV 40 kA bus tie breaker at West End Fostoria                   | AEP (100%)              |
| b2887                              | Add 2-138 kV CB's and relocate 2-138 kV circuit exits to different bays at Morse Road. Eliminate 3 terminal line by terminating Genoa - Morse circuit at Morse Road | AEP (100%)              |
| b2888                              | Retire Poston substation. Install new Lemaster substation   | AEP (100%)              |
| b2888.1                            | Remove and retire the Poston 138 kV station   | AEP (100%)              |
| b2888.2                            | Install a new greenfield station, Lemaster 138 kV Station, in the clear   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2888.3                            | Relocate the Trimble 69 kV AEP Ohio radial delivery point to 138 kV, to be served off of the Poston – Strouds Run – Crooksville 138 kV circuit via a new three-way switch. Retire the Poston - Trimble 69 kV line  | AEP (100%)              |
| b2889                              | Expand Cliffview station   | AEP (100%)              |
| b2889.1                            | Cliffview Station: Establish 138 kV bus. Install two 138/69 kV XFRs (130 MVA), six 138 kV CBs (40 kA 3000 A) and four 69 kV CBs (40 kA 3000 A)   | AEP (100%)              |
| b2889.2                            | Byllesby – Wythe 69 kV: Retire all 13.77 miles (1/0 CU) of this circuit (~4 miles currently in national forest)  | AEP (100%)              |
| b2889.3                            | Galax – Wythe 69 kV: Retire 13.53 miles (1/0 CU section) of line from Lee Highway down to Byllesby. This section is currently double circuited with Byllesby – Wythe 69 kV. Terminate the southern 3/0 ACSR section into the newly opened position at Byllesby | AEP (100%)              |
| b2889.4                            | Cliffview Line: Tap the existing Pipers Gap – Jubal Early 138 kV line section. Construct double circuit in/out (~2 miles) to newly established 138 kV bus, utilizing 795 26/7 ACSR conductor   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2890.1                            | Rebuild 23.55 miles of the East Cambridge – Smyrna 34.5 kV circuit with 795 ACSR conductor (128 MVA rating) and convert to 69 kV  | AEP (100%)              |
| b2890.2                            | East Cambridge: Install a 2000 A 69 kV 40 kA circuit breaker for the East Cambridge – Smyrna 69 kV circuit  | AEP (100%)              |
| b2890.3                            | Old Washington: Install 69 kV 2000 A two way phase over phase switch  | AEP (100%)              |
| b2890.4                            | Install 69 kV 2000 A two way phase over phase switch  | AEP (100%)              |
| b2891                              | Rebuild the Midland Switch to East Findlay 34.5 kV line (3.31 miles) with 795 ACSR (63 MVA rating) to match other conductor in the area   | AEP (100%)              |
| b2892                              | Install new 138/12 kV transformer with high side circuit switcher at Leon and a new 138 kV line exit towards Ripley. Establish 138 kV at the Ripley station with a new 138/69 kV 130 MVA transformer and move the distribution load to 138 kV service | AEP (100%)              |
| b2936.1                            | Rebuild approximately 6.7 miles of 69 kV line between Mottville and Pigeon River using 795 ACSR conductor (129 MVA rating). New construction will be designed to 138 kV standards but operated at 69 kV   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2936.2                            | Pigeon River Station: Replace existing MOAB Sw. 'W' with a new 69 kV 3000 A 40 kA breaker, and upgrade existing relays towards HMD station. Replace CB H with a 3000 A 40 kA breaker | AEP (100%)              |
| b2937                              | Replace the existing 636 ACSR 138 kV bus at Fletchers Ridge with a larger 954 ACSR conductor   | AEP (100%)              |
| b2938                              | Perform a sag mitigations on the Broadford – Wolf Hills 138 kV circuit to allow the line to operate to a higher maximum temperature  | AEP (100%)              |
| b2958.1                            | Cut George Washington – Tidd 138 kV circuit into Sand Hill and reconfigure Brues & Warton Hill line entrances  | AEP (100%)              |
| b2958.2                            | Add 2 138 kV 3000 A 40 kA breakers, disconnect switches, and update relaying at Sand Hill station  | AEP (100%)              |
| b2968                              | Upgrade existing 345 kV terminal equipment at Tanner Creek station   | AEP (100%)              |
| b2969                              | Replace terminal equipment on Maddox Creek - East Lima 345 kV circuit  | AEP (100%)              |
| b2976                              | Upgrade terminal equipment at Tanners Creek 345 kV station. Upgrade 345 kV bus and risers at Tanners Creek for the Dearborn circuit  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2988                              | Replace the Twin Branch 345 kV breaker “JM” with 63 kA breaker and associated substation works including switches, bus leads, control cable and new DICM | AEP (100%)              |
| b2993                              | Rebuild the Torrey – South Gambrinus Switch – Gambrinus Road 69 kV line section (1.3 miles) with 1033 ACSR ‘Curlew’ conductor and steel poles            | AEP (100%)              |
| b3000                              | Replace South Canton 138 kV breaker ‘N’ with an 80 kA breaker  | AEP (100%)              |
| b3001                              | Replace South Canton 138 kV breaker ‘N1’ with an 80 kA breaker   | AEP (100%)              |
| b3002                              | Replace South Canton 138 kV breaker ‘N2’ with an 80 kA breaker   | AEP (100%)              |
| b3036                              | Rebuild 15.6 miles of Haviland - North Delphos 138 kV line   | AEP (100%)              |
| b3037                              | Upgrades at the Natrium substation   | AEP (100%)              |
| b3038                              | Reconductor the Capitol Hill – Coco 138 kV line section  | AEP (100%)              |
| b3039                              | Line swaps at Muskingum 138 kV station   | AEP (100%)              |
| b3040.1                            | Rebuild Ravenswood – Racine tap 69 kV line section (~15 miles) to 69 kV standards, utilizing 795 26/7 ACSR conductor                                     | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3040.2                            | Rebuild existing Ripley – Ravenswood 69 kV circuit (~9 miles) to 69 kV standards, utilizing 795 26/7 ACSR conductor                              | AEP (100%)              |
| b3040.3                            | Install new 3-way phase over phase switch at Sarah Lane station to replace the retired switch at Cottageville                                    | AEP (100%)              |
| b3040.4                            | Install new 138/12 kV 20 MVA transformer at Polymer station to transfer load from Mill Run station to help address overload on the 69 kV network | AEP (100%)              |
| b3040.5                            | Retire Mill Run station  | AEP (100%)              |
| b3040.6                            | Install 28.8 MVAR cap bank at South Buffalo station  | AEP (100%)              |
| b3051.2                            | Adjust CT tap ratio at Ronceverte 138 kV   | AEP (100%)              |
| b3085                              | Reconductor Kammer – George Washington 138 kV line (approx. 0.08 mile). Replace the wave trap at Kammer 138 kV                                   | AEP (100%)              |
| b3086.1                            | Rebuild New Liberty – Findlay 34 kV line Str's 1–37 (1.5 miles), utilizing 795 26/7 ACSR conductor   | AEP (100%)              |
| b3086.2                            | Rebuild New Liberty – North Baltimore 34 kV line Str's 1-11 (0.5 mile), utilizing 795 26/7 ACSR conductor  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3086.3                            | Rebuild West Melrose – Whirlpool 34 kV line Str’s 55–80 (1 mile), utilizing 795 26/7 ACSR conductor   | AEP (100%)              |
| b3086.4                            | North Findlay station: Install a 138 kV 3000A 63kA line breaker and low side 34.5 kV 2000A 40 kA breaker, high side 138 kV circuit switcher on T1 | AEP (100%)              |
| b3086.5                            | Ebersole station: Install second 90 MVA 138/69/34 kV transformer. Install two low side (69 kV) 2000A 40 kA breakers for T1 and T2                 | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b3095                              | Rebuild Lakin – Racine Tap 69 kV line section (9.2 miles) to 69 kV standards, utilizing 795 26/7 ACSR conductor  |  | AEP (100%)              |
| b3099                              | Install a 138 kV 3000A 40 kA circuit switcher on the high side of the existing 138/34.5 kV transformer No.5 at Holston station   |  | AEP (100%)              |
| b3100                              | Replace the 138 kV MOAB switcher “YY” with a new 138 kV circuit switcher on the high side of Chemical transformer No.6   |  | AEP (100%)              |
| b3101                              | Rebuild the 1/0 Cu. conductor sections (approx. 1.5 miles) of the Fort Robinson – Moccasin Gap 69 kV line section (approx. 5 miles) utilizing 556 ACSR conductor and upgrade existing relay trip limit (WN/WE: 63 MVA, line limited by remaining conductor sections) |  | AEP (100%)              |
| b3102                              | Replace existing 50 MVA 138/69 kV transformers #1 and #2 (both 1957 vintage) at Fremont station with new 130 MVA 138/69 kV transformers  |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3103.1                            | Install a 138/69 kV transformer at Royerton station. Install a 69 kV bus with one 69 kV breaker toward Bosman station. Rebuild the 138 kV portion into a ring bus configuration built for future breaker and a half with four 138 kV breakers  | AEP (100%)              |
| b3103.2                            | Rebuild the Bosman/Strawboard station in the clear across the road to move it out of the flood plain and bring it up to 69 kV standards  | AEP (100%)              |
| b3103.3                            | Retire 138 kV breaker L at Delaware station and re-purpose 138 kV breaker M for the Jay line   | AEP (100%)              |
| b3103.4                            | Retire all 34.5 kV equipment at Hartford City station. Re-purpose breaker M for the Bosman line 69 kV exit   | AEP (100%)              |
| b3103.5                            | Rebuild the 138 kV portion of Jay station as a 6 breaker, breaker and a half station re-using the existing breakers "A", "B", and "G." Rebuild the 69 kV portion of this station as a 6 breaker ring bus re-using the 2 existing 69 kV breakers. Install a new 138/69 kV transformer | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3103.6                            | Rebuild the 69 kV Hartford City – Armstrong Cork line but instead of terminating it into Armstrong Cork, terminate it into Jay station   | AEP (100%)              |
| b3103.7                            | Build a new 69 kV line from Armstrong Cork – Jay station   | AEP (100%)              |
| b3103.8                            | Rebuild the 34.5 kV Delaware – Bosman line as the 69 kV Royerton – Strawboard line. Retire the line section from Royerton to Delaware stations   | AEP (100%)              |
| b3104                              | Perform a sag study on the Polaris – Westerville 138 kV line (approx. 3.6 miles) to increase the summer emergency rating to 310 MVA  | AEP (100%)              |
| b3105                              | Rebuild the Delaware – Hyatt 138 kV line (approx. 4.3 miles) along with replacing conductors at both Hyatt and Delaware substations  | AEP (100%)              |
| b3106                              | Perform a sag study (6.8 miles of line) to increase the SE rating to 310 MVA. Note that results from the sag study could cover a wide range of outcomes, from no work required to a complete rebuild | AEP (100%)              |
| b3109                              | Rebuild 5.2 miles Bethel – Sawmill 138 kV line including ADSS  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3112                              | Construct a single circuit 138 kV line (approx. 3.5 miles) from Amlin to Dublin using 1033 ACSR Curlew (296 MVA SN), convert Dublin station into a ring configuration, and re-terminating the Britton UG cable to Dublin station | AEP (100%)              |
| b3116                              | Replace existing Mullens 138/46 kV 30 MVA transformer No.4 and associated protective equipment with a new 138/46 kV 90 MVA transformer and associated protective equipment   | AEP (100%)              |
| b3119.1                            | Rebuild the Jay – Pennville 138 kV line as double circuit 138/69 kV. Build a new 9.8 mile single circuit 69 kV line from near Pennville station to North Portland station  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3119.2                            | Install three (3) 69 kV breakers to create the “U” string and add a low side breaker on the Jay transformer 2   | AEP (100%)              |
| b3119.3                            | Install two (2) 69 kV breakers at North Portland station to complete the ring and allow for the new line  | AEP (100%)              |
| b3129                              | At Conesville 138 kV station: Remove line leads to generating units, transfer plant AC service to existing station service feeds in Conesville 345/138 kV yard, and separate and reconfigure protection schemes | AEP (100%)              |
| b3131                              | At East Lima and Haviland 138 kV stations, replace line relays and wavetrap on the East Lima – Haviland 138 kV facility   | AEP (100%)              |
| b3131.1                            | Rebuild approximately 12.3 miles of remaining Lark conductor on the double circuit line between Haviland and East Lima with 1033 54/7 ACSR conductor  | AEP (100%)              |
| b3132                              | Rebuild 3.11 miles of the LaPorte Junction – New Buffalo 69 kV line with 795 ACSR   | AEP (100%)              |
| b3139                              | Rebuild the Garden Creek – Whetstone 69 kV line (approx. 4 miles)   | AEP (100%)              |
| b3140                              | Rebuild the Whetstone – Knox Creek 69 kV line (approx. 3.1 miles)   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3141                              | Rebuild the Knox Creek – Coal Creek 69 kV line (approx. 2.9 miles)   | AEP (100%)              |
| b3148.1                            | Rebuild the 46 kV Bradley – Scarbro line to 96 kV standards using 795 ACSR to achieve a minimum rate of 120 MVA. Rebuild the new line adjacent to the existing one leaving the old line in service until the work is completed       | AEP (100%)              |
| b3148.2                            | Bradley remote end station work, replace 46 kV bus, install new 12 MVAR capacitor bank   | AEP (100%)              |
| b3148.3                            | Replace the existing switch at Sun substation with a 2-way SCADA-controlled motor-operated air-breaker switch  | AEP (100%)              |
| b3148.4                            | Remote end work and associated equipment at Scarbro station  | AEP (100%)              |
| b3148.5                            | Retire Mt. Hope station and transfer load to existing Sun station  | AEP (100%)              |
| b3149                              | Rebuild the 2.3 mile Decatur – South Decatur 69 kV line using 556 ACSR   | AEP (100%)              |
| b3150                              | Rebuild Ferguson 69/12 kV station in the clear as the 138/12 kV Bear station and connect it to an approx. 1 mile double circuit 138 kV extension from the Aviation – Ellison Road 138 kV line to remove the load from the 69 kV line | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3151.1                            | Rebuild the 30 mile Gateway – Wallen 34.5 kV circuit as the 27 mile Gateway – Wallen 69 kV line   | AEP (100%)              |
| b3151.2                            | Retire approx. 3 miles of the Columbia – Whitley 34.5 kV line   | AEP (100%)              |
| b3151.3                            | At Gateway station, remove all 34.5 kV equipment and install one (1) 69 kV circuit breaker for the new Whitley line entrance  | AEP (100%)              |
| b3151.4                            | Rebuild Whitley as a 69 kV station with two (2) lines and one (1) bus tie circuit breaker   | AEP (100%)              |
| b3151.5                            | Replace the Union 34.5 kV switch with a 69 kV switch structure  | AEP (100%)              |
| b3151.6                            | Replace the Eel River 34.5 kV switch with a 69 kV switch structure  | AEP (100%)              |
| b3151.7                            | Install a 69 kV Bobay switch at Woodland station  | AEP (100%)              |
| b3151.8                            | Replace the Carroll and Churubusco 34.5 kV stations with the 69 kV Snapper station. Snapper station will have two (2) line circuit breakers, one (1) bus tie circuit breaker and a 14.4 MVAR cap bank | AEP (100%)              |
| b3151.9                            | Remove 34.5 kV circuit breaker “AD” at Wallen station   | AEP (100%)              |
| b3151.10                           | Rebuild the 2.5 miles of the Columbia – Gateway 69 kV line  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3151.11                           | Rebuild Columbia station in the clear as a 138/69 kV station with two (2) 138/69 kV transformers and 4-breaker ring buses on the high and low side. Station will reuse 69 kV breakers “J” & “K” and 138 kV breaker “D” | AEP (100%)              |
| b3151.12                           | Rebuild the 13 miles of the Columbia – Richland 69 kV line   | AEP (100%)              |
| b3151.13                           | Rebuild the 0.5 mile Whitley – Columbia City No.1 line as 69 kV  | AEP (100%)              |
| b3151.14                           | Rebuild the 0.5 mile Whitley – Columbia City No.2 line as 69 kV  | AEP (100%)              |
| b3151.15                           | Rebuild the 0.6 mile double circuit section of the Rob Park – South Hicksville / Rob Park – Diebold Road as 69 kV  | AEP (100%)              |
| b3160.1                            | Construct an approx. 2.4 miles double circuit 138 kV extension using 1033 ACSR (Aluminum Conductor Steel Reinforced) to connect Lake Head to the 138 kV network  | AEP (100%)              |
| b3160.2                            | Retire the approx.2.5 miles 34.5 kV Niles – Simplicity Tap line  | AEP (100%)              |
| b3160.3                            | Retire the approx.4.6 miles Lakehead 69 kV Tap   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s) |
|------------------------------------|---|--|-------------------------|
| b3160.4                            | Build new 138/69 kV drop down station to feed Lakehead with a 138 kV breaker, 138 kV switcher, 138/69 kV transformer and a 138 kV Motor-Operated Air Break                          |  | AEP (100%)              |
| b3160.5                            | Rebuild the approx. 1.2 miles Buchanan South 69 kV Radial Tap using 795 ACSR (Aluminum Conductor Steel Reinforced)  |  | AEP (100%)              |
| b3160.6                            | Rebuild the approx. 8.4 miles 69 kV Pletcher – Buchanan Hydro line as the approx. 9 miles Pletcher – Buchanan South 69 kV line using 795 ACSR (Aluminum Conductor Steel Reinforced) |  | AEP (100%)              |
| b3160.7                            | Install a PoP (Point-of-Presence) switch at Buchanan South station with 2 line MOABs (Motor-Operated Air Break)   |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement | Responsible Customer(s) |
|------------------------------------|----------------------------|-------------------------|
| b3208                              |                            | AEP (100%)              |
| b3209                              |                            | AEP (100%)              |
| b3210                              |                            | AEP (100%)              |
| b3220                              |                            | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s) |
|------------------------------------|---|--|-------------------------|
| b3243                              | Replace risers at the Bass 34.5 kV station  |  | AEP (100%)              |
| b3244                              | Rebuild approximately 9 miles of the Robinson Park – Harlan 69 kV line                      |  | AEP (100%)              |
| b3248                              | Install a low side 69 kV circuit breaker at the Albion 138/69 kV transformer #1             |  | AEP (100%)              |
| b3249                              | Rebuild the Chatfield – Melmore 138 kV line (approximately 10 miles) to 1033 ACSR conductor |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3253                              | Install a 3000A 40 kA 138 kV breaker on the high side of 138/69 kV transformer #5 at the Millbrook Park station. The transformer and associated bus protection will be upgraded accordingly | AEP (100%)              |
| b3255                              | Upgrade 795 AAC risers at the Sand Hill 138 kV station towards Cricket Switch with 1272 AAC   | AEP (100%)              |
| b3256                              | Upgrade 500 MCM Cu risers at Tidd 138 kV station towards Wheeling Steel; replace with 1272 AAC conductor  | AEP (100%)              |
| b3257                              | Replace two spans of 336.4 26/7 ACSR on the Twin Branch – AM General #2 34.5 kV circuit   | AEP (100%)              |
| b3258                              | Install a 3000A 63 kA 138 kV breaker on the high side of 138/69 kV transformer #2 at Wagenhals station. The transformer and associated bus protection will be upgraded accordingly          | AEP (100%)              |
| b3259                              | At West Millersburg station, replace the 138 kV MOAB on the West Millersburg – Wooster 138 kV line with a 3000A 40 kA breaker   | AEP (100%)              |
| b3261                              | Upgrade circuit breaker “R1” at Tanners Creek 345 kV. Install Transient Recovery Voltage capacitor to increase the rating from 50 kA to 63 kA   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3269                              | At West New Philadelphia station, add a high side 138 kV breaker on the 138/69 kV Transformer #2 along with a 138 kV breaker on the line towards Newcomerstown   | AEP (100%)              |
| b3270                              | Install 1.7 miles of 795 ACSR 138 kV conductor along the other side of Dragoon Tap 138 kV line, which is currently double circuit tower with one position open. Additionally, install a second 138/34.5 kV transformer at Dragoon, install a high side circuit switcher on the current transformer at the Dragoon Station, and install two (2) 138 kV line breakers on the Dragoon – Jackson 138 kV and Dragoon – Twin Branch 138 kV lines | AEP (100%)              |
| b3270.1                            | Replace Dragoon 34.5 kV breakers “B”, “C”, and “D” with 40 kA breakers   | AEP (100%)              |
| b3271                              | Install a 138 kV circuit breaker at Fremont station on the line towards Fremont Center and install a 9.6 MVAR 69 kV capacitor bank at Bloom Road station   | AEP (100%)              |
| b3272                              | Install two 138 kV circuit switchers on the high side of 138/34.5 kV Transformers #1 and #2 at Rockhill station  | AEP (100%)              |

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| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s) |
|--|----------------------------|-------------------------|
| b3273.1<br>Rebuild and convert the existing 17.6 miles East Leipsic – New Liberty 34.5 kV circuit to 138 kV using 795 ACSR   |                            | AEP (100%)              |
| b3273.2<br>Convert the existing 34.5 kV equipment to 138 kV and expand the existing McComb station to the north and east to allow for new equipment to be installed. Install two (2) new 138 kV box bays to allow for line positions and two (2) new 138/12 kV transformers  |                            | AEP (100%)              |
| b3273.3<br>Expand the existing East Leipsic 138 kV station to the north to allow for another 138 kV line exit to be installed. The new line exit will involve installing a new 138 kV circuit breaker, disconnect switches and the addition of a new dead end structure along with the extension of the existing 138 kV bus work |                            | AEP (100%)              |
| b3273.4<br>Add one (1) 138 kV circuit breaker and disconnect switches in order to add an additional line position at New Liberty 138 kV station. Install line relaying potential devices and retire the 34.5 kV breaker ‘F’  |                            | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3274                              | Rebuild approximately 8.9 miles of 69 kV line between Newcomerstown and Salt Fork Switch with 556 ACSR conductor  | AEP (100%)              |
| b3275.1                            | Rebuild the Kammer Station – Cresaps Switch 69 kV line, approximately 0.5 mile  | AEP (100%)              |
| b3275.2                            | Rebuild the Cresaps Switch – McElroy Station 69 kV, approximately 0.67 mile   | AEP (100%)              |
| b3275.3                            | Replace a single span of 4/0 ACSR from Moundsville - Natrium structure 93L to Carbon Tap switch 69 kV located between the Colombia Carbon and Conner Run stations. Remainder of the line is 336 ACSR                  | AEP (100%)              |
| b3275.4                            | Rebuild from Colombia Carbon to Columbia Carbon Tap structure 93N 69 kV, approximately 0.72 mile. The remainder of the line between Colombia Carbon Tap structure 93N and Natrium station is 336 ACSR and will remain | AEP (100%)              |
| b3275.5                            | Replace the Cresaps 69 kV 3-Way Phase-Over-Phase switch and structure with a new 1200A 3-Way switch and steel pole  | AEP (100%)              |
| b3275.6                            | Replace 477 MCM Alum bus and risers at McElroy 69 kV station  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b3275.7                            | Replace Natrium 138 kV bus existing between CB-BT1 and along the 138 kV Main Bus #1 dropping to CBH1 from the 500 MCM conductors to a 1272 KCM AAC conductor. Replace the dead end clamp and strain insulators |  | AEP (100%)              |
| b3276.1                            | Rebuild the 2/0 Copper section of the Lancaster – South Lancaster 69 kV line, approximately 2.9 miles of the 3.2 miles total length with 556 ACSR conductor. The remaining section has a 336 ACSR conductor    |  | AEP (100%)              |
| b3276.2                            | Rebuild the 1/0 Copper section of the line between Lancaster Junction and Ralston station 69 kV, approximately 2.3 miles of the 3.1 miles total length   |  | AEP (100%)              |
| b3276.3                            | Rebuild the 2/0 Copper portion of the line between East Lancaster Tap and Lancaster 69 kV, approximately 0.81 mile   |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3278.1                            | Replace H.S. MOAB switches on the high side of the 138/69/34.5 kV transformer T1 with a H.S. circuit switcher at Saltville station   | AEP (100%)              |
| b3278.2                            | Replace existing 138/69/34.5 kV transformer T2 with a new 130 MVA 138/69/13 kV transformer at Meadowview station   | AEP (100%)              |
| b3279                              | Install a new 138 kV, 21.6 MVAR cap bank and circuit switcher at Apple Grove station   | AEP (100%)              |
| b3280                              | Rebuild the existing Cabin Creek – Kelly Creek 46 kV line (to Structure 366-44), approximately 4.4 miles. This section is double circuit with the existing Cabin Creek – London 46 kV line so a double circuit rebuild would be required | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s) |
|------------------------------------|---|--|-------------------------|
| b3282.1                            | Install a second 138 kV circuit utilizing 795 ACSR conductor on the open position of the existing double circuit towers from East Huntington – North Proctorville. Remove the existing 34.5 kV line from East Huntington – North Chesapeake and rebuild this section to 138 kV served from a new PoP switch off the new East Huntington – North Proctorville 138 kV #2 line |  | AEP (100%)              |
| b3282.2                            | Install a 138 kV 40 kA circuit breaker at North Proctorville station  |  | AEP (100%)              |
| b3282.3                            | Install a 138 kV 40 kA circuit breaker at East Huntington station   |  | AEP (100%)              |
| b3282.4                            | Convert the existing 34/12 kV North Chesapeake to a 138/12 kV station   |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3284                              | Rebuild approximately 5.44 miles of 69 kV line from Lock Lane to Point Pleasant   | AEP (100%)              |
| b3285                              | Replace the Meigs 69 kV 4/0 Cu station riser towards Gavin and rebuild the section of the Meigs – Hemlock 69 kV circuit from Meigs to approximately Structure #40 (about 4 miles) replacing the line conductor 4/0 ACSR with the line conductor size 556.5 ACSR | AEP (100%)              |
| b3286                              | Reconductor the first 3 spans from Merrimac station to Structure 464-3 of 3/0 ACSR conductor utilizing 336 ACSR on the existing Merrimac – Midway 69 kV circuit   | AEP (100%)              |
| b3287                              | Upgrade 69 kV risers at Moundsville station towards George Washington   | AEP (100%)              |
| b3289.1                            | Install high-side circuit switcher on 138/69/12 kV T5 at Roanoke station  | AEP (100%)              |
| b3289.2                            | Install high-side circuit switcher on 138/69/34.5 kV T1 at Huntington Court station   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3290.1                            | Build 9.4 miles of single circuit 69 kV line from Roselms to near East Ottoville 69 kV switch   | AEP (100%)              |
| b3290.2                            | Rebuild 7.5 miles of double circuit 69 kV line between East Ottoville switch and Kalida station (combining with the new Roselms to Kalida 69 kV circuit)          | AEP (100%)              |
| b3290.3                            | At Roselms switch, install a new three way 69 kV, 1200 A phase-over-phase switch, with sectionalizing capability  | AEP (100%)              |
| b3290.4                            | At Kalida 69 kV station, terminate the new line from Roselms switch. Move the CS XT2 from high side of T2 to the high side of T1. Remove existing T2 transformer  | AEP (100%)              |
| b3291                              | Replace the Russ St. 34.5 kV switch   | AEP (100%)              |
| b3292                              | Replace existing 69 kV capacitor bank at Stuart station with a 17.2 MVAR capacitor bank   | AEP (100%)              |
| b3293                              | Replace 2/0 Cu entrance span conductor on the South Upper Sandusky 69 kV line and 4/0 Cu Risers/Bus conductors on the Forest line at Upper Sandusky 69 kV station | AEP (100%)              |
| b3294                              | Replace existing 69 kV disconnect switches for circuit breaker "C" at Walnut Avenue station   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3295                              | Grundy 34.5 kV: Install a 34.5 kV 9.6 MVAR cap bank  | AEP (100%)              |
| b3296                              | Rebuild the overloaded portion of the Concord – Whitaker 34.5 kV line (1.13 miles). Rebuild is double circuit and will utilize 795 ACSR conductor                        | AEP (100%)              |
| b3297.1                            | Rebuild 4.23 miles of 69 kV line between Sawmill and Lazelle station, using 795 ACSR 26/7 conductor  | AEP (100%)              |
| b3297.2                            | Rebuild 1.94 miles of 69 kV line between Westerville and Genoa stations, using 795 ACSR 26/7 conductor   | AEP (100%)              |
| b3297.3                            | Replace risers and switchers at Lazelle, Westerville, and Genoa 69 kV stations. Upgrade associated relaying accordingly  | AEP (100%)              |
| b3298                              | Rebuild 0.8 mile of double circuit 69 kV line between South Toronto and West Toronto. Replace 219 ACSR with 556 ACSR   | AEP (100%)              |
| b3298.1                            | Replace the 69 kV breaker D at South Toronto station with 40 kA breaker  | AEP (100%)              |
| b3299                              | Rebuild 0.2 mile of the West End Fostoria - Lumberjack Switch 69 kV line with 556 ACSR (Dove) conductors. Replace jumpers on West End Fostoria line at Lumberjack Switch | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s) |
|------------------------------------|---|--|-------------------------|
| b3308                              | Reconductor and rebuild 1 span of T-line on the Fort Steuben – Sunset Blvd 69 kV branch with 556 ACSR   |  | AEP (100%)              |
| b3309                              | Rebuild 1.75 miles of the Greenlawn – East Tiffin line section of the Carothers – Greenlawn 69 kV circuit containing 133 ACSR conductor with 556 ACSR conductor. Upgrade relaying as required |  | AEP (100%)              |
| b3310.1                            | Rebuild 10.5 miles of the Howard – Willard 69 kV line utilizing 556 ACSR conductor  |  | AEP (100%)              |
| b3310.2                            | Upgrade relaying at Howard 69 kV station  |  | AEP (100%)              |
| b3310.3                            | Upgrade relaying at Willard 69 kV station   |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3312                              | Rebuild approximately 4 miles of existing 69 kV line between West Mount Vernon and Mount Vernon stations. Replace the existing 138/69 kV transformer at West Mount Vernon with a larger 90 MVA unit along with existing 69 kV breaker 'C' | AEP (100%)              |
| b3313                              | Add 40 kA circuit breakers on the low and high side of the East Lima 138/69 kV transformer  | AEP (100%)              |
| b3314.1                            | Install a new 138/69 kV 130 MVA transformer and associated protection at Elliot station   | AEP (100%)              |
| b3314.2                            | Perform work at Strouds Run station to retire 138/69/13 kV 33.6 MVA Transformer #1 and install a dedicated 138/13 KV distribution transformer   | AEP (100%)              |
| b3315                              | Upgrade relaying on Mark Center – South Hicksville 69 kV line and replace Mark Center cap bank with a 7.7 MVAR unit   | AEP (100%)              |
| b3320                              | Replace the CT at Don Marquis 345 kV station  | AEP (100%)              |
| b3336                              | Rebuild 6 miles Benton Harbor - Riverside 138 kV double circuit extension   | AEP (100%)              |
| b3337                              | Replace the one (1) Hyatt 138 kV breaker “AB1” (101N) with 3000 A, 63 kA interrupting breaker   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3338                              | Replace the two (2) Kenny 138 kV breakers, “102” (SC-3) and “106” (SC-4), each with a 3000 A, 63 kA interrupting breaker  | AEP (100%)              |
| b3339                              | Replace the one (1) Canal 138 kV breaker “3” with 3000 A, 63 kA breaker   | AEP (100%)              |
| b3342                              | Replace the 2156 ACSR and 2874 ACSR bus and risers with 2-bundled 2156 ACSR at Muskingum River 345 kV station to address loading issues on Muskingum - Waterford 345 kV line  | AEP (100%)              |
| b3343                              | Rebuild approximately 0.3 miles of the overloaded 69 kV line between Albion - Philips Switch and Philips Switch - Brimfield Switch with 556 ACSR conductor  | AEP (100%)              |
| b3344.1                            | Install two (2) 138 kV circuit breakers in the M and N strings in the breaker-and-a-half configuration in West Kingsport station 138 kV yard to allow the Clinch River - Moreland Dr. 138 kV to cut in the West Kingsport station | AEP (100%)              |
| b3344.2                            | Upgrade remote end relaying at Riverport 138 kV station due to the line cut in at West Kingsport station  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3345.1                            | Rebuild approximately 4.2 miles of overloaded sections of the 69 kV line between Salt Fork switch and Leatherwood switch with 556 ACSR   | AEP (100%)              |
| b3345.2                            | Update relay settings at Broom Road station  | AEP (100%)              |
| b3346.1                            | Rebuild approximately 3.5 miles of overloaded 69 kV line between North Delphos – East Delphos – Elida Road switch station. This includes approximately 1.1 miles of double circuit line that makes up a portion of the North Delphos – South Delphos 69 kV line and the North Delphos – East Delphos 69 kV line. Approximately 2.4 miles of single circuit line will also be rebuilt between the double circuit portion to East Delphos station and from East Delphos to Elida Road switch station | AEP (100%)              |
| b3346.2                            | Replace the line entrance spans at South Delphos station to eliminate the overloaded 4/0 Copper and 4/0 ACSR conductor   | AEP (100%)              |
| b3347.1                            | Rebuild approximately 20 miles of 69 kV line between Bancroft and Milton stations with 556 ACSR conductor  | AEP (100%)              |
| b3347.2                            | Replace the jumpers around Hurrican switch with 556 ACSR   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3347.3                            | Replace the jumpers around Teays switch with 556 ACSR   | AEP (100%)              |
| b3347.4                            | Update relay settings at Winfield station to coordinate with remote ends on line rebuild  | AEP (100%)              |
| b3347.5                            | Update relay settings at Bancroft station to coordinate with remote ends on line rebuild  | AEP (100%)              |
| b3347.6                            | Update relay settings at Milton station to coordinate with remote ends on line rebuild  | AEP (100%)              |
| b3347.7                            | Update relay settings at Putnam Village station to coordinate with remote ends on line rebuild  | AEP (100%)              |
| b3348.1                            | Construct a 138 kV single bus station (Tin Branch) consisting of a 138 kV box bay with a distribution transformer and 12 kV distribution bay. Two 138 kV lines will feed this station (from Logan and Sprigg stations), and distribution will have one 12 kV feed. Install two 138 kV circuit breakers on the line exits. Install 138 kV circuit switcher for the new transformer | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b3348.2 | Construct a new 138/46/12 kV Argyle station to replace Dehue 46 kV station. Install a 138 kV ring bus using a breaker-and-a-half configuration, with an autotransformer with a 46 kV feed and a distribution transformer with a 12 kV distribution bay. Two 138 kV lines will feed this station (from Logan and Wyoming stations). There will also be a 46 kV feed from this station to Becco station. Distribution will have two 12 kV feeds. Retire Dehue 46 kV station in its entirety |  | AEP (100%) |
| b3348.3 | Bring the Logan – Sprigg #2 138 kV circuit in and out of Tin Branch station by constructing approximately 1.75 miles of new overhead double circuit 138 kV line. Double circuit T3 series lattice towers will be used along with 795,000 cm ACSR 26/7 conductor. One shield wire will be conventional 7 #8 ALUMOWELD, and one shield wire will be optical ground wire (OPGW)  |  | AEP (100%) |
| b3348.4 | Logan-Wyoming No. 1 circuit in and out of the proposed Argyle 46 kV station. Double circuit T3 series lattice towers will be used along with 795,000 cm ACSR 26/7 conductor. One shield wire will be conventional 7 #8 ALUMOWELD, and one shield wire will be OPGW  |  | AEP (100%) |
| b3348.5 | Rebuild approximately 10 miles of 46 kV line between Becco and the new Argyle 46 kV substation. Retire approximately 16 miles of 46 kV line between the new Argyle substation and Chauncey station  |  | AEP (100%) |
| b3348.6 | Adjust relay settings due to new line terminations and retirements at Logan, Wyoming, Sprigg, Becco and Chauncey stations   |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b3350.1 | Replace Bellefonte 69 kV breakers C, G, I, Z, AB and JJ in place. The new 69 kV breakers to be rated at 3000 A 40 kA                             |  | AEP (100%) |
| b3350.2 | Upgrade remote end relaying at Point Pleasant, Coalton and South Point 69 kV substations   |  | AEP (100%) |
| b3351   | Replace the 69 kV in-line switches at Monterey 69 kV substation  |  | AEP (100%) |
| b3354   | Replace circuit breakers '42' and '43' at Bexley station with 3000 A, 40 kA 69 kV breakers (operated at 40 kV), slab, control cables and jumpers |  | AEP (100%) |
| b3355   | Replace circuit breakers 'A' and 'B' at South Side Lima station with 1200 A, 25 kA 34.5 kV breakers, slab, control cables and jumpers            |  | AEP (100%) |
| b3356   | Replace circuit breaker 'H' at West End Fostoria station with 3000 A, 40 kA 69 kV breaker, slab, control cables and jumpers                      |  | AEP (100%) |
| b3357   | Replace circuit breakers 'C', 'E,' and 'L' at Natrium station with 3000 A, 40 kA 69 kV breakers, slab, control cables and jumpers                |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |            |
|-------|---|--|------------|
| b3358 | Install a 69 kV 11.5 MVAR capacitor at Biers Run 69 kV station  |  | AEP (100%) |
| b3359 | Rebuild approximately 2.3 miles of the existing North Van Wert Sw. – Van Wert 69 kV line utilizing 556 ACSR conductor   |  | AEP (100%) |
| b3362 | Rebuild approximately 3.1 miles of the overloaded conductor on the existing Oertels Corner – North Portsmouth 69 kV line utilizing 556 ACSR   |  | AEP (100%) |
| b3731 | Replace 40 kV breaker J at McComb 138 kV station with a new 3000A 40 kA breaker   |  | AEP (100%) |
| b3732 | Install a 6 MVAR, 34.5 kV cap bank at Morgan Run station  |  | AEP (100%) |
| b3733 | Rebuild the 1.8 mile 69 kV line between Summerhill and Willow Grove Switch. Replace 4/0 ACSR conductor with 556 ACSR  |  | AEP (100%) |
| b3734 | Install a 7.7 MVAR, 69 kV cap bank at both Otway station and Rosemount station  |  | AEP (100%) |
| b3735 | Terminate the existing Broadford – Wolf Hills #1 138 kV line into Abingdon 138 kV Station. This line currently bypasses the existing Abingdon 138 kV station; Install two new 138 kV circuit breakers on each new line exit towards Broadford and towards Wolf Hills #1 station; Install one new 138 kV circuit breaker on line exit towards South Abingdon station for standard bus sectionalizing |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |   |  |            |
|----------|---|--|------------|
| b3736.1  | Establish 69 kV bus and new 69 kV line Circuit Breaker at Dorton substation   |  | AEP (100%) |
| b3736.2  | At Breaks substation, reuse 72 kV breaker A as the new 69 kV line breaker   |  | AEP (100%) |
| b3736.3  | Rebuild approximately 16.7 miles Dorton – Breaks 46 kV line to 69 kV line   |  | AEP (100%) |
| b3736.4  | Retire approximately 17.2 miles Cedar Creek – Elwood 46 kV line   |  | AEP (100%) |
| b3736.5  | Retire approximately 6.2 miles Henry Clay – Elwood 46 kV line section   |  | AEP (100%) |
| b3736.6  | Retire Henry Clay 46 kV substation and replace with Poor Bottom 69 kV station. Install a new 0.7 mile double circuit extension to Poor Bottom 69 kV station |  | AEP (100%) |
| b3736.7  | Retire Draffin substation and replace with a new substation. Install a new 0.25 mile double circuit extension to New Draffin substation                     |  | AEP (100%) |
| b3736.8  | Remote end work at Jenkins substation   |  | AEP (100%) |
| b3736.9  | Provide transition fiber to Dorton, Breaks, Poor Bottom, Jenkins and New Draffin 69 kV substations  |  | AEP (100%) |
| b3736.10 | Henry Clay switch station retirement  |  | AEP (100%) |
| b3736.11 | Cedar Creek substation work   |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |   |  |            |
|----------|---|--|------------|
| b3736.12 | Breaks substation 46 kV equipment retirement  |  | AEP (100%) |
| b3736.13 | Retire Pike 29 switch station and Rob Fork switch station   |  | AEP (100%) |
| b3736.14 | Serve Pike 29 and Rob Fork substation customers from nearby 34 kV distribution sources                      |  | AEP (100%) |
| b3736.15 | Poor Bottom 69 kV substation install  |  | AEP (100%) |
| b3736.16 | Henry Clay 46 kV substation retirement  |  | AEP (100%) |
| b3736.17 | New Draffin 69 kV substation install  |  | AEP (100%) |
| b3736.18 | Draffin 46 kV substation retirement   |  | AEP (100%) |
| b3763    | Replace the Jug Street 138 kV breakers M, N, BC, BD, BE, BF, D, H, J, L, BG, BH, BJ, BK with 80 KA breakers |  | AEP (100%) |
| b3764    | Replace the Hyatt 138 kV breakers AB1 and AD1 with 63 kA breakers   |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b3766.1 | Hayes – New Westville 138 kV line: Build approximately 0.19 miles of 138 kV line to the Indiana/ Ohio State line to connect to AES’s line portion of the Hayes – New Westville 138 kV line with the conductor size 795 ACSR26/7 Drake. This sub-ID includes the cost of line construction and Right of Way (ROW) |  | AEP (100%) |
| b3766.2 | Hayes – Hodgin 138 kV line: Build approximately 0.05 mile of 138 kV line with the conductor size 795 ACSR26/7 Drake. This sub-ID includes the line construction, ROW, and fiber  |  | AEP (100%) |
| b3766.3 | Hayes 138 kV: Build a new 4-138 kV circuit breaker ring bus. This sub-ID includes the cost of new station construction, property purchase, metering, station fiber and the College Corner – Randolph 138 kV line connection  |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3775.6                            | Perform sag study mitigation work on the Dumont – Stillwell 345 kV line (remove a center-pivot irrigation system from under the line, allowing for the normal and emergency ratings of the line to increase) | <p><b>Reliability Driver:</b><br/>AEP (12.38%) / ComEd (87.62%)</p> <p><b>Market Efficiency Driver:</b><br/>AEC (0.87%) / AEP (24.07%) / APS (3.95%) / ATSI (11.04%) / BGE (4.30%) / Dayton (3.52%) / DEOK (5.35%) / Dominion (20.09%) / DPL (1.73%) / DL (2.11%) / ECP** (0.17%) / EKPC (1.73%) / HTP*** (0.07%) / JCPL (1.98%) / ME (1.63%) / NEPTUNE* (0.43%) / OVEC (0.07%) / PECO (3.59%) / PENELEC (1.68%) / PEPCO (3.91%) / PPL (3.64%) / PSEG (3.93%) / RE (0.14%)</p> |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3775.7                            | Upgrade the limiting element at Stillwell or Dumont substation to increase the rating of the Stillwell – Dumont 345 kV line to match conductor rating | <p><b>Reliability Driver:</b><br/>AEP (12.38%) / Dayton (87.62%)</p> <p><b>Market Efficiency Driver:</b><br/>AEC (0.87%) / AEP (24.07%) / APS (3.95%) / ATSI (11.04%) / BGE (4.30%) / Dayton (3.52%) / DEOK (5.35%) / Dominion (20.09%) / DPL (1.73%) / DL (2.11%) / ECP** (0.17%) / EKPC (1.73%) / HTP*** (0.07%) / JCPL (1.98%) / ME (1.63%) / NEPTUNE* (0.43%) / OVEC (0.07%) / PECO (3.59%) / PENELEC (1.68%) / PEPCO (3.91%) / PPL (3.64%) / PSEG (3.93%) / RE (0.14%)</p> |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |  |  |  |
|----------|--|--|--|
| b3775.10 | Perform a sag study on the Olive – University Park 345 kV line to increase the operating temperature to 225 F. Remediation work includes two tower replacements on the line. |  | <p><b>Reliability Driver:</b><br/>AEP (100%)</p> <p><b>Market Efficiency Driver:</b><br/>AEC (0.87%) / AEP (24.07%) / APS (3.95%) / ATSI (11.04%) / BGE (4.30%) / Dayton (3.52%) / DEOK (5.35%) / Dominion (20.09%) / DPL (1.73%) / DL (2.11%) / ECP** (0.17%) / EKPC (1.73%) / HTP*** (0.07%) / JCPL (1.98%) / ME (1.63%) / NEPTUNE* (0.43%) / OVEC (0.07%) / PECO (3.59%) / PENELEC (1.68%) / PEPCO (3.91%) / PPL (3.64%) / PSEG (3.93%) / RE (0.14%)</p>                    |
| b3775.11 | Upgrade the limiting element at Stillwell substation to increase the rating of the Stillwell – Dumont 345 kV line to match conductor rating                                  |  | <p><b>Reliability Driver:</b><br/>AEP (12.38%) / ComEd (87.62%)</p> <p><b>Market Efficiency Driver:</b><br/>AEC (0.87%) / AEP (24.07%) / APS (3.95%) / ATSI (11.04%) / BGE (4.30%) / Dayton (3.52%) / DEOK (5.35%) / Dominion (20.09%) / DPL (1.73%) / DL (2.11%) / ECP** (0.17%) / EKPC (1.73%) / HTP*** (0.07%) / JCPL (1.98%) / ME (1.63%) / NEPTUNE* (0.43%) / OVEC (0.07%) / PECO (3.59%) / PENELEC (1.68%) / PEPCO (3.91%) / PPL (3.64%) / PSEG (3.93%) / RE (0.14%)</p> |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3800.100                          | Establish a new 500 kV breaker position for the low-side of the existing 765/500 kV transformer at Cloverdale Station. The new position will be between two new 500 kV circuit breakers located in a new breaker string, electrically converting the 500 kV yard to “double-bus double-breaker” configuration. | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> AEP (100%)</p> |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3800.121                          | Kammer to 502 Junction 500 kV line: Conduct LIDAR Sag Study to assess SE rating and needed upgrades | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/> AEP (21.66%) / APS (0.01%) / BGE (7.14%) / DEOK (0.01%) / Dominion (62.25%) / PEPCO (8.93%)</p> |

\*Neptune Regional Transmission System, LLC

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 20 – Virginia Elec. and Power Co.  
Effective April 9, 2024  
Version 40.0.1

**SCHEDULE 12 – APPENDIX A**

**(20) Virginia Electric and Power Company**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1698.7                            | Replace Loudoun 230 kV breaker '203052' with 63 kA rating   | Dominion (100%)         |
| b1696.1                            | Replace the Idylwood 230 kV '25112' breaker with 50 kA breaker  | Dominion (100%)         |
| b1696.2                            | Replace the Idylwood 230 kV '209712' breaker with 50 kA 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 63 kA breaker  | Dominion (100%)  |
| b2369                              | Replace the Brambleton 230 kV breaker '213702' with 63 kA breaker  | Dominion (100%)  |
| b2370                              | Replace the Brambleton 230 kV breaker 'H302' with 63 kA 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 | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%) |
|                                    |  | <b>DFAX Allocation:</b><br>APS (52.14%) / Dominion (20.63%) / PEPCO (27.23%)   |
| b2397                              | Replace the Beaumeade 230 kV breaker '2079T2116' with 63 kA  | Dominion (100%)  |
| b2398                              | Replace the Beaumeade 230 kV breaker '2079T2130' with 63 kA  | Dominion (100%)  |
| b2399                              | Replace the Beaumeade 230 kV breaker '208192' with 63 kA   | Dominion (100%)  |
| b2400                              | Replace the Beaumeade 230 kV breaker '209592' with 63 kA   | Dominion (100%)  |
| b2401                              | Replace the Beaumeade 230 kV breaker '211692' with 63 kA   | Dominion (100%)  |
| b2402                              | Replace the Beaumeade 230 kV breaker '227T2130' with 63 kA   | 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 Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)                                       |
|------------------------------------|---|---|
| b2403                              | Replace the Beaumeade 230 kV breaker '274T2130' with 63 kA  | Dominion (100%)   |
| b2404                              | Replace the Beaumeade 230 kV breaker '227T2095' with 63 kA  | Dominion (100%)   |
| b2405                              | Replace the Pleasant view 230 kV breaker '203T274' with 63 kA   | 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 50 kA   | Dominion (100%)   |
| b2443.2                            | Replace the Ox 230 kV breaker '206342' with 63 kA breaker   | Dominion (100%)   |
| b2443.3                            | Glebe – Station C PAR   | <b>DFAX Allocation:</b><br>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 63 kA 230 kV breakers with 19 80 kA 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 Transmission Enhancements | 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 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.)**

| Required Transmission 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 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |
| 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 50 kA breaker   | Dominion (100%)   |
| b2543                              | Replace the Loudoun 500 kV ‘H2T584’ breaker with a 50 kA 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%)   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2582                              | Rebuild the Elmont – Cunningham 500 kV line   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (6.21%) / BGE (4.78%) / Dominion (81.73%) / PEPCO (7.28%)</p> |
| b2583                              | Install 500 kV breaker at Ox Substation to remove Ox Tx#1 from H1T561 breaker failure outage  | Dominion (100%)   |
| b2584                              | Relocate the Bremono load (transformer #5) to #2028 (Bremono-Charlottesville 230 kV) line and Cartersville distribution station to #2027 (Bremono-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%)   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

Required Transmission Enhancements    Annual 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 Transmission Enhancements    Annual 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 Transmission Enhancements | Annual 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 Transmission Enhancements | Annual 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%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2665                              | Rebuild the Cunningham – Doods 500 kV line  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (10.07%) / BGE (6.58%) / Dominion (72.51%) / PEPCO (10.84%)</p> |
| b2686                              | Pratts Area Improvement   | Dominion (100%)   |
| b2686.1                            | Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW | Dominion (100%)   |
| b2686.2                            | 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%)   |
| b2686.4                            | Replace the Remington CT 230 kV breaker “2114T2155” with a 63 kA breaker                        | 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%)   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| 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 50 kA breaker   | Dominion (100%)   |
| b2729                              | Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorn, 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%) |

\* Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2744                              | Rebuild the Carson – Rogers Rd 500 kV circuit  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100.00%)</p> |
| 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%)  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

Required Transmission 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 500 kV           |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/> Dominion (100%)</p>  |
| b2759 | Rebuild Line #550 Mt. Storm – Valley 500 kV       |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/> APS (40.03%) / DL (3.91%) / Dominion (49.41%) / EKPC (6.65%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission 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 115 kV                   | Dominion (100%)         |
| b2815                              | Build a new Pinewood 115 kV switching station at the tap serving North Doswell DP with a 115 kV four breaker ring bus  | Dominion (100%)         |
| b2842                              | Update the nameplate for Mount Storm 500 kV "57272" to be 50 kA breaker  | Dominion (100%)         |
| b2843                              | Replace the Mount Storm 500 kV "G2TY" with 50 kA breaker   | Dominion (100%)         |
| b2844                              | Replace the Mount Storm 500 kV "G2TZ" with 50 kA breaker   | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2845                              | Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50 kA breaker  | Dominion (100%)         |
| b2846                              | Update the nameplate for Mount Storm 500 kV "SX172" to be 50 kA breaker   | Dominion (100%)         |
| b2847                              | Update the nameplate for Mount Storm 500 kV "Y72" to be 50 kA breaker   | Dominion (100%)         |
| b2848                              | Replace the Mount Storm 500 kV "Z72" with 50 kA 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 Transmission 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 |  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |
| 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  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                       | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2960.1                            | Replace fixed series capacitors on 500 kV Line #547 at Lexington | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     DEOK (7.57%) / Dominion (88.85%) / EKPC (3.58%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2960.2                            | Replace fixed series capacitors on 500 kV Line #548 at Valley  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     DEOK (6.54%) / Dominion (91.29%) / EKPC (2.17%)</p> |
| 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 63 kA breaker   | Dominion (100%)   |
| b2962.2                            | Replace the NIVO 230 kV breaker “2116T2130” with 63 kA 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%)   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2978                              | Install 2-125 MVAR STATCOMs at Rawlings and 1-125 MVAR STATCOM at Clover 500 kV substations   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |
| 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

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b2989                              | Install a second 230/115 kV Transformer (224 MVA) approximately 1 mile north of Bremono and tie 230 kV Line #2028 (Bremono – Charlottesville) and 115 kV Line #91 (Bremono - 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 Bremono 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 Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3019                              | Rebuild 500 kV Line #552<br>Bristers to Chancellor – 21.6<br>miles long        | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%)<br/>                     / APS (5.82%) / ATSI (7.49%)<br/>                     / BGE (4.01%) / ComEd<br/>                     (14.06%) / Dayton (2.03%) /<br/>                     DEOK (3.21%) / DL (1.59%) /<br/>                     DPL (2.55%) / Dominion<br/>                     (13.89%) / EKPC (2.35%) /<br/>                     JCPL (3.59%) / ME (1.81%) /<br/>                     NEPTUNE* (0.42%) / OVEC<br/>                     (0.06%) / PECO (5.11%) /<br/>                     PENELEC (1.73%) / PEPCO<br/>                     (3.68%) / PPL (4.43%) / PSEG<br/>                     (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100.00%)</p> |
| b3019.1                            | Update the nameplate for<br>Morrisville 500 kV breaker<br>“H1T594” to be 50 kA | Dominion (100%)  |
| b3019.2                            | Update the nameplate for<br>Morrisville 500 kV breaker<br>“H1T545” to be 50 kA | Dominion (100%)  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3020                              | Rebuild 500 kV Line #574 Ladysmith to Elmont – 26.2 miles long  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (16.36%) / DEOK (11.61%) / Dominion (51.27%) / EKPC (5.30%) / PEPCO (15.46%)</p> |
| b3021                              | Rebuild 500 kV Line #581 Ladysmith to Chancellor – 15.2 miles long  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100.00%)</p>   |
| b3026                              | Reconductor Line #274 (Pleasant View – Ashburn – Beaumeade 230 kV) with a minimum rating of 1200 MVA. Also upgrade terminal equipment | Dominion (100%)  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

Required Transmission Enhancements    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 50 kA breaker   |  | Dominion (100%) |
| b3027.4 | Update the nameplate for Ladysmith 500 kV breaker "H1T575" to be 50 kA breaker   |  | Dominion (100%) |
| b3027.5 | Update the nameplate for Ladysmith 500 kV breaker "568T574" (will be renumbered as "H2T568") to be 50 kA 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.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | 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%)         |
| b3096                              | Rebuild 230 kV line No.2063 (Clifton – Ox) and part of 230 kV line No.2164 (Clifton – Keene Mill) with double circuit steel structures using double circuit conductor at current 230 kV northern Virginia standards with a minimum rating of 1200 MVA | Dominion (100%)         |
| b3097                              | Rebuild 4 miles of 115 kV Line #86 between Chesterfield and Centralia to current standards with a minimum summer emergency rating of 393 MVA  | Dominion (100%)         |
| b3098                              | Rebuild 9.8 miles of 115 kV Line #141 between Balcony Falls and Skimmer and 3.8 miles of 115 kV Line #28 between Balcony Falls and Cushaw to current standards with a minimum rating of 261 MVA   | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3098.1                            | Rebuild Balcony Falls 115 kV substation   | Dominion (100%)         |
| b3110.1                            | Rebuild Line #2008 between Loudoun to Dulles Junction using single circuit conductor at current 230 kV northern Virginia standards with minimum summer ratings of 1200 MVA. Cut and loop Line #265 (Clifton – Sully) into Bull Run substation. Add three (3) 230 kV breakers at Bull Run to accommodate the new line and upgrade the substation | Dominion (100%)         |
| b3110.2                            | Replace the Bull Run 230 kV breakers “200T244” and “200T295” with 50 kA breakers  | Dominion (100%)         |
| b3110.3                            | Replace the Clifton 230 kV breakers “201182” and “XT2011” with 63 kA breakers   | Dominion (100%)         |
| b3113                              | Rebuild approximately 1 mile of 115 kV Lines #72 and #53 to current standards with a minimum summer emergency rating of 393 MVA. The resulting summer emergency rating of Line #72 segment from Brown Boveri to Bellwood is 180 MVA. There is no change to Line #53 ratings   | Dominion (100%)         |
| b3114                              | Rebuild the 18.6 mile section of 115 kV Line #81 which includes 1.7 miles of double circuit Line #81 and 230 kV Line #2056. This segment of Line #81 will be rebuilt to current standards with a minimum rating of 261 MVA. Line #2056 rating will not change   | Dominion (100%)         |
| b3121                              | Rebuild Clubhouse – Lakeview 230 kV Line #254 with single-circuit wood pole equivalent structures at the current 230 kV standard with a minimum rating of 1047 MVA  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3122                              | Rebuild Hathaway – Rocky Mount (Duke Energy Progress) 230 kV Line #2181 and Line #2058 with double circuit steel structures using double circuit conductor at current 230 kV standards with a minimum rating of 1047 MVA  | Dominion (100%)         |
| b3161.1                            | Split Chesterfield-Plaza 115 kV Line No. 72 by rebuilding the Brown Boveri tap line as double circuit loop in-and-out of the Brown Boveri Breaker station   | Dominion (100%)         |
| b3161.2                            | Install a 115 kV breaker at the Brown Boveri Breaker station. Site expansion is required to accommodate the new layout  | Dominion (100%)         |
| b3162                              | Acquire land and build a new 230 kV switching station (Stevensburg) with a 224 MVA, 230/115 kV transformer. Gordonsville-Remington 230 kV Line No. 2199 will be cut and connected to the new station. Remington-Mt. Run 115 kV Line No.70 and Mt. Run-Oak Green 115 kV Line No. 2 will also be cut and connected to the new station | Dominion (100%)         |
| b3211                              | Rebuild the 1.3 mile section of 500 kV Line No. 569 (Loudoun – Morrisville) with single-circuit 500 kV structures at the current 500 kV standard. This will increase the rating of the line to 3424 MVA   | Dominion (100%)         |
| b3213                              | Install 2nd Chickahominy 500/230 kV transformer   | Dominion (100%)         |
| b3213.1                            | Replace the eight (8) Chickahominy 230 kV breakers with 63 kA breakers: “SC122”, “205022”, “209122”, “210222-2”, “28722”, “H222”, “21922” and “287T2129”  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3223.1                            | Install a second 230 kV circuit with a minimum summer emergency rating of 1047 MVA between Lanexa and Northern Next substations. The second circuit will utilize the vacant arms on the double-circuit structures that are being installed on Line #224 (Lanexa – Northern Next) as part of the End-of-Life rebuild project (b3089)   | Dominion (100%)         |
| b3223.2                            | Expand the Northern Neck terminal from a 230 kV, 4-breaker ring bus to a 6-breaker ring bus   | Dominion (100%)         |
| b3223.3                            | Expand the Lanexa terminal from a 6-breaker ring bus to a breaker-and-a-half arrangement  | Dominion (100%)         |
| b3246.1                            | Convert 115 kV Line #172 Liberty – Lomar and 115 kV Line #197 Cannon Branch – Lomar to 230 kV to provide a new 230 kV source between Cannon Branch and Liberty. The majority of 115 kV Line #172 Liberty – Lomar and Line #197 Cannon Branch – Lomar is adequate for 230 kV operation. Rebuild 0.36 mile segment between the Lomar and Cannon Branch junction. Lines will have a summer rating of 1047MVA/1047MVA (SN/SE) | Dominion (100%)         |
| b3246.2                            | Perform substation work for the 115 kV to 230 kV line conversion at Liberty, Wellington, Godwin, Pioneer, Sandlot and Cannon Branch   | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3246.3                            | Extend 230 kV Line #2011 Cannon Branch – Clifton to Winters Branch by removing the existing Line #2011 termination at Cannon Branch and extending the line to Brickyard creating 230 kV Line #2011 Brickyard - Clifton. Extend a new 230 kV line between Brickyard and Winters Branch with a summer rating of 1572MVA/1572MVA (SN/SE) | Dominion (100%)   |
| b3246.4                            | Perform substation work at Cannon Branch, Brickyard and Winters Branch for the 230 kV Line #2011 Cannon Branch – Clifton extension  | Dominion (100%)   |
| b3246.5                            | Replace the Gainesville 230 kV 40 kA breaker “216192” with a 50 kA breaker  | Dominion (100%)   |
| b3247                              | Replace 13 towers with galvanized steel towers on Doubs – Goose Creek 500 kV. Reconductor 3 mile section with three (3) 1351.5 ACSR 45/7. Upgrade line terminal equipment at Goose Creek substation to support the 500 kV line rebuild  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3262                              | Install a second 115 kV 33.67 MVAR cap bank at Harrisonburg substation along with a 115 kV breaker   | Dominion (100%)         |
| b3263                              | Cut existing 115 kV Line #5 between Bremono and Cunningham substations and loop in and out of Fork Union substation  | Dominion (100%)         |
| b3264                              | Install 40 kA breaker at Stuarts Draft 115 kV station and sectionalize the Doom to Dupont-Waynesboro 115 kV Line #117 into two 115 kV lines  | Dominion (100%)         |
| b3268                              | Build a switching station at the junction of 115 kV line #39 and 115 kV line #91 with a 115 kV capacitor bank. The switching station will be built with 230 kV structures but will operate at 115 kV | Dominion (100%)         |
| b3300                              | Reconductor 230 kV Line #2172 from Brambleton to Evergreen Mills along with upgrading the line leads at Brambleton to achieve a summer emergency rating of 1574 MVA                                  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3301                              | Reconductor 230 kV Line #2210 from Brambleton to Evergreen Mills along with upgrading the line leads at Brambleton to achieve a summer emergency rating of 1574 MVA  | Dominion (100%)         |
| b3302                              | Reconductor 230 kV Line #2213 from Cabin Run to Yardley Ridge along with upgrading the line leads at Yardley to achieve a summer emergency rating of 1574 MVA  | Dominion (100%)         |
| b3303.1                            | Extend a new single circuit 230 kV Line #9250 from Farmwell substation to Nimbus substation  | Dominion (100%)         |
| b3303.2                            | Remove Beaumeade 230 kV Line #2152 line switch   | Dominion (100%)         |
| b3304                              | Midlothian area improvements for 300 MW load drop relief   | Dominion (100%)         |
| b3304.1                            | Cut 230 kV Line #2066 at Trabue junction   | Dominion (100%)         |
| b3304.2                            | Reconductor idle 230 kV Line #242 (radial from Midlothian to Trabue junction) to allow a minimum summer rating of 1047 MVA and connect to the section of 230 kV Line #2066 between Trabue junction and Winterpock, re-number 230 kV Line #242 structures to Line #2066 | Dominion (100%)         |
| b3304.3                            | Use the section of idle 115 kV Line #153, between Midlothian and Trabue junction to connect to the section of (former) 230 kV Line #2066 between Trabue junction and Trabue to create new Midlothian – Trabue lines with new line numbers #2218 and #2219              | Dominion (100%)         |
| b3304.4                            | Create new line terminations at Midlothian for the new Midlothian – Trabue 230 kV lines  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s) |
|------------------------------------|---|--|-------------------------|
| b3684                              | Rebuild 12.4 miles of 115 kV line from Earleys to Kelford with a summer emergency rating of 262 MVA. Replace structures as needed to support the new conductor. Upgrade breaker switch 13668 at Earleys from 1200 A to 2000 A   |  | Dominion (100%)         |
| b3685                              | Install a 33 MVAR cap bank at Cloud 115 kV bus along with a 115 kV breaker. Add 115 kV circuit breaker for 115 kV Line #38  |  | Dominion (100%)         |
| b3686                              | Purchase land close to the bifurcation point of 115 kV Line #4 (where the line is split into two sections) and build a new 115 kV switching station called Duncan Store. The new switching station will require space for an ultimate transmission interconnection consisting of a 115 kV six-breaker ring bus (with three breakers installed initially)                              |  | Dominion (100%)         |
| b3687                              | Rebuild approximately 15.1 miles line segment between Bristers and Minnieville D.P. with 2-768 ACSS and 4000 A supporting equipment from Bristers to Ox to allow for future 230 kV capability of 115 kV Line #183. The continuous summer normal rating will be 523 MVA for line Ox – Minnieville. The continuous summer normal rating will be 786 MVA for Minnieville – Bristers line |  | Dominion (100%)         |
| b3689.1                            | Reconductor approximately 24.42 miles of 230 kV Line #2114 Remington CT– Elk Run – Gainesville to achieve a summer rating of 1574 MVA by fully reconductoring the line and upgrading the wave trap and substation conductor at Remington CT and Gainesville 230 kV stations   |  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3689.2                            | Replace 230 kV breakers SC102, H302, H402 and 218302 at Brambleton substation with 4000A 80 kA breakers and associated equipment including breaker leads as necessary to address breaker duty issues identified in short circuit analysis | Dominion (100%)   |
| b3690                              | Reconductor approximately 1.07 miles of 230 kV Line #2008 segment from Cub Run to Walney to achieve a summer rating of 1574 MVA. Replace line switch 200826 with a 4000A switch   | Dominion (100%)   |
| b3691                              | Reconductor approximately 1.4 miles of 230 kV Line #2141 from Lakeview to Carolina to achieve a summer rating of 1047 MVA   | Dominion (100%)   |
| b3692                              | Rebuild approximately 27.7 miles of 500 kV transmission line from Elmont to Chickahominy with current 500 kV standards construction practices to achieve a summer rating of 4330 MVA  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3693                              | Expand substation and install approximately 294 MVAR cap bank at 500 kV Lexington substation along with a 500 kV breaker. Adjust the tap positions associated with the two 230/69 kV transformers at Harrisonburg to neutral position and lock them   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (14.29%) / APS (5.82%) / ATSI (7.49%) / BGE (4.01%) / ComEd (14.06%) / Dayton (2.03%) / DEOK (3.21%) / DL (1.59%) / DPL (2.55%) / Dominion (13.89%) / EKPC (2.35%) / JCPL (3.59%) / ME (1.81%) / NEPTUNE* (0.42%) / OVEC (0.06%) / PECO (5.11%) / PENELEC (1.73%) / PEPCO (3.68%) / PPL (4.43%) / PSEG (5.99%) / RE (0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |
| b3694.1                            | Convert 115 kV Line #29 Aquia Harbour to Possum Point to 230 kV (Extended Line #2104) and swap Line #2104 and converted Line #29 at Aquia Harbour backbone termination. Upgrade terminal equipment at Possum Point to terminate converted Line #29 (now extended line #2104). (Line #29 from Fredericksburg to Aquia Harbour is being rebuilt under baseline b2981 to 230 kV standards) | <p>Dominion (100%)</p>  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3694.2                            | Upgrade Aquia Harbour terminal equipment to not limit 230 kV Line #9281 conductor rating   | Dominion (100%)         |
| b3694.3                            | Upgrade Fredericksburg terminal equipment by rearranging 230 kV bus configuration to terminate converted Line #29 (now becoming 9281). The project will add a new breaker at the 230 kV bay and reconfigure line termination of 230 kV Line #2157, #2090 and #2083   | Dominion (100%)         |
| b3694.4                            | Reconductor/rebuild approximately 7.6 miles of 230 kV Line #2104 Cranes Corner – Stafford to achieve a summer rating of 1047 MVA.<br>Reconductor/rebuild approximately 0.34 miles of 230 kV Line #2104 Stafford – Aquia Harbour to achieve a summer rating of 1047 MVA.<br>Upgrade terminal equipment at Cranes Corner to not limit the new conductor rating | Dominion (100%)         |
| b3694.5                            | Upgrade wave trap and line leads at 230 kV Line #2090 Ladysmith CT terminal to achieve 4000A rating  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |  |  |                 |
|----------|--|--|-----------------|
| b3694.6  | Upgrade Fuller Road substation to feed Quantico substation via 115 kV radial line. Install four-breaker ring bus and break 230 kV Line #252 into two new lines: 1) Line #252 between Aquia Harbour and Fuller Road and 2) Line #9282 between Fuller Road and Possum Point. Install a 230/115 kV transformer which will serve Quantico substation |  | Dominion (100%) |
| b3694.7  | Energize in-service spare 500/230 kV Carson Transformer #1   |  | Dominion (100%) |
| b3694.8  | Partial wreck and rebuild 10.34 miles of 230 kV Line #249 Carson – Locks to achieve a minimum summer emergency rating of 1047 MVA. Upgrade terminal equipment at Carson and Locks stations to not limit the new conductor rating   |  | Dominion (100%) |
| b3694.9  | Wreck and rebuild 5.4 miles of 115 kV Line #100 Locks – Harrowgate to achieve a minimum summer emergency rating of 393 MVA. Upgrade terminal equipment at Locks and Harrowgate stations to not limit the new conductor rating and perform Line #100 Chesterfield terminal relay work   |  | Dominion (100%) |
| b3694.10 | Reconductor approximately 2.9 miles of 230 kV Line #211 Chesterfield – Hopewell to achieve a minimum summer emergency rating of 1046 MVA   |  | Dominion (100%) |
| b3694.11 | Reconductor approximately 2.9 miles of 230 kV Line #228 Chesterfield – Hopewell to achieve a minimum summer emergency rating of 1046 MVA   |  | Dominion (100%) |
| b3694.12 | Upgrade equipment at Chesterfield 230 kV substation to not limit ratings on Line #211 and #228   |  | Dominion (100%) |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3694.13                           | Upgrade equipment at Hopewell 230 kV substation to not limit ratings on Line #211 and #228  | Dominion (100%)   |
| b3702                              | Install one 13.5 Ohm series reactor to control the power flow on the 230 kV Line #2054 from Charlottesville substation to Proffit Rd. 230 kV line   | AEC (1.59%) / APS (8.85%) / ATSI (5.54%) / BGE (10.79%) / ComEd (1.86%) / Dayton (0.21%) / DEOK (1.16%) / Dominion (18.99%) / DPL (3.68%) / DL (1.16%) / ECP** (0.27%) / HTP*** (0.22%) / JCPL (4.53%) / ME (1.73%) / NEPTUNE* (0.68%) / PECO (6.95%) / PENELEC (4.75%) / PEPCO (9.69%) / PPL (9.78%) / PSEG (7.28%) / RE (0.29%) |
| b3707.1                            | Reconductor approximately 0.57 mile of 115 kV Line #1021 from Harmony Village to Greys Point with 768 ACSS to achieve a summer emergency rating of 237 MVA. The current conductor is 477 ACSR | Dominion (100%)   |
| b3707.2                            | Reconductor approximately 0.97 mile of 115 kV Line #65 from Rappahannock to White Stone with 768 ACSS to achieve a summer emergency rating of 237 MVA. The current conductor is 477 ACSR      | Dominion (100%)   |
| b3759                              | Reconductor approximately 10.5 miles of 115 kV Line #23 segment from Oak Ridge to AC2-079 Tap to minimum emergency ratings of 393 MVA Summer / 412 MVA Winter                                 | Dominion (100%)   |

\*Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s)  |
|------------------------------------|--|--|--|
| b3779                              | Cut existing 230 kV line #2183 and extend from Poland Road substation to Evergreen Mills substation. Approximately 0.59 miles of new line will be built from the cut-in to the Evergreen Mills substation. Cut and extend the existing 230 kV line #2183 creating a new line #2210 from Brambleton substation to be terminated at Evergreen Mills substation. Approximately 0.59 miles of new line will be built from the cut-in to the Evergreen Mills substation |  | Dominion (100%)  |
| b3800.118                          | Line work for terminating Doubs to Bismark line into Woodside 500 kV substation (DOM Portion)  |  | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>           APS (21.09%) / BGE (6.55%) / Dominion (64.94%) / PEPCO (7.42%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3800.120                          | Aspen substation work to terminate the new NextEra 500 kV line. Include Aspen 500 kV substation portion build  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (9.18%) / BGE (7.21%) / Dominion (72.52%) / PEPCO (11.09%)</p> |
| b3800.200                          | Build a new 500 kV line from Aspen - Golden on 500/230 kV double circuit structures with substation upgrades at Aspen and Golden. New conductor to have a minimum summer normal rating of 4357 MVA | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p>  |
| b3800.201                          | Install two 500/230 kV transformer at Golden substation  | Dominion (100%)  |
| b3800.202                          | Install one 500/230 kV transformer at Aspen substation   | Dominion (86.28%) / PEPCO (13.72%)   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3800.203                          | Install a second 500/230 kV 1440 MVA transformer at Mars substation  | Dominion (100%)         |
| b3800.204                          | Reconductor 0.5 mile section of 230 kV line No. 2150 Golden - Paragon Park Circuit 1 to achieve a summer rating of 1573 MVA  | Dominion (100%)         |
| b3800.205                          | Reconductor 0.5 mile section of 230 kV line No. 2081 Golden - Paragon Park Circuit 2 to achieve a summer rating of 1573 MVA  | Dominion (100%)         |
| b3800.206                          | Upgrade Paragon Park substation line conductors to 4000A continuous current rating for 230 kV lines No. 2081 and No. 2150  | Dominion (100%)         |
| b3800.207                          | Reconductor 230 kV line No. 2207 Paragon Park – BECO to achieve a summer rating of 1573 MVA  | Dominion (100%)         |
| b3800.208                          | Upgrade Paragon Park substation conductor and line leads to 4000A continuous current rating for 230 kV line No. 2207   | Dominion (100%)         |
| b3800.209                          | Upgrade BECO substation equipment to 4000A continuous current rating for 230 kV line No.2207   | Dominion (100%)         |
| b3800.210                          | Build a new 230 kV line from Mars - Lockridge on 500/230 kV double circuit structures to achieve a summer rating of 1573 MVA. Install 230 kV equipment at Mars and Lockridge substations     | Dominion (100%)         |
| b3800.211                          | Build a new 230 kV line from Lockridge - Golden on 500/230 kV double circuit structures to achieve a summer rating of 1573 MVA. Install 230 kV equipment at Golden and Lockridge substations | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b3800.212                          | Build a new 500 kV line from Mars - Golden on 500/230 kV double circuit structures with substation upgrades at Golden and Mars. New conductor to have a minimum summer normal rating of 4357 MVA   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (99.96%) / Dominion (0.04%)</p> |
| b3800.213                          | Cut 500 kV line No. 558 Brambleton - Goose Creek into Aspen substation. Upgrade 500 kV terminal equipment at Aspen and Goose Creek to 5000A continuous rating current. At Goose Creek, replace circuit breakers 59582 and 55882, and associated disconnect switches, breaker leads, bus, and line risers to accommodate 5000A rating | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (99.39%) / Dominion (0.61%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b3800.214                          | Build a new 500 kV line from Aspen - Goose Creek to achieve a summer rating of 4357 MVA. Install new 500 kV terminal equipment at Aspen  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (99.39%) / Dominion (0.61%)</p> |
| b3800.215                          | Cut 230 kV line No. 2150 Sterling Park - Paragon Park Circuit 1 into Golden substation and install 230 kV equipment at Golden. Upgrade relay settings at Golden substation for upgrading 230 kV line No. 2150 to 4000A continuous current rating | Dominion (100%)   |
| b3800.216                          | Cut 230 kV line No. 2081 Sterling Park - Paragon Park Circuit 2 into Golden substation and install 230 kV equipment at Golden. Upgrade relay settings at Golden substation for upgrading 230 kV line No. 2081 to 4000A continuous current rating | Dominion (100%)   |
| b3800.217                          | Build a new 230 kV line from Aspen - Sycolin Creek on 500/230 kV double circuit structures to achieve a summer rating of 1573 MVA. Install 230 kV equipment at Golden and Sycolin Creek substations  | Dominion (86.28%) / PEPCO (13.72%)  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b3800.218                          | Build a new 230 kV line from Sycolin Creek - Golden on 500/230 kV double circuit structures to achieve a summer rating of 1573 MVA. Install 230 kV equipment at Golden and Sycolin Creek substations | Dominion (100%)   |
| b3800.219                          | Replace seven overdutied 230 kV breakers at Beaumeade substation with 80 kA breakers   | Dominion (100%)   |
| b3800.220                          | Replace four overdutied 230 kV breakers at BECO substation with 80 kA breakers   | Dominion (100%)   |
| b3800.221                          | Replace four overdutied 230 kV breakers at Belmont substation with 80 kA breakers  | Dominion (100%)   |
| b3800.222                          | Replace one overdutied 230 kV breaker at Discovery substation with 80 kA breaker   | Dominion (100%)   |
| b3800.223                          | Replace one overdutied 230 kV breaker at Pleasant View substation with 80 kA breaker   | Dominion (100%)   |
| b3800.224                          | Replace two overdutied 230 kV breakers at Shellhorn substation with 80 kA breakers   | Dominion (100%)   |
| b3800.225                          | Change 500 kV line No. 558 destination at Brambleton to Aspen substation and upgrade line protection relays  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (5.20%) / DL (0.46%) / Dominion (91.40%) / ME (0.59%) / PEPCO (2.35%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3800.226                          | Change 230 kV lines No. 2081 and No. 2150 at Paragon Park substation destination to Golden substation and upgrade line protection relays   | Dominion (100%)         |
| b3800.227                          | Change 230 kV lines No. 2081 and No. 2150 at Sterling Park substation destination to Golden substation and upgrade line protection relays  | Dominion (100%)         |
| b3800.228                          | Reconductor 1.47 miles of 230 kV lines No. 2081 and No. 2150 from Sterling Park to Golden substation. Upgrade terminal equipment at Sterling Park to 4000A continuous current  | Dominion (100%)         |
| b3800.229                          | Reconductor 0.67 miles of 230 kV lines No. 2194 and No. 9231 from Davis Drive to Sterling Park substation. Terminal equipment at remote end substations will be installed or upgraded to 4000A continuous current rating to support new conductor ratings                                | Dominion (100%)         |
| b3800.230                          | Reset relays at Breezy Knoll for the revised current rating of 230 kV line No. 2098 Pleasant View - Hamilton   | Dominion (100%)         |
| b3800.231                          | Reset relays at Dry Mill for the revised current rating of 230 kV line No. 2098 Pleasant View - Hamilton   | Dominion (100%)         |
| b3800.232                          | Reset relays at Hamilton for the revised current rating of 230 kV line No. 2098 Pleasant View - Hamilton   | Dominion (100%)         |
| b3800.233                          | Upgrade equipment to 4000A continuous current rating at Pleasant View substation in support of 230 kV line No. 2098 wreck and rebuild. Replace circuit breakers 274T2098 & 2098T2180 and associated disconnect switches, breaker leads, bus, and line risers to accommodate 4000A rating | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3800.234                          | Wreck and rebuild approximately one mile of 230 kV line No. 2098 between Pleasant View and structure 2098/9, where line No. 2098 turns towards Hamilton substation  | Dominion (100%)  |
| b3800.235                          | Replace five overdutied 230 kV breakers at Loudoun substation with 80 kA breakers   | Dominion (100%)  |
| b3800.236                          | Replace two overdutied 230 kV breakers at Ox substation with 63 kA breakers   | Dominion (100%)  |
| b3800.237                          | Replace two overdutied 230 kV breakers at Pleasant View substation with 63 kA breakers  | Dominion (100%)  |
| b3800.238                          | Upgrade equipment to 4000A continuous current rating at Pleasant View substation in support of 230 kV line No. 203 rebuild. Replace circuit breakers 203T274 & L3T203 and associated disconnect switches, breaker leads, bus, and line risers to accommodate 4000A rating | APS (8.09%) / BGE (8.25%) / Dominion (64.87%) / PEPCO (18.79%) |
| b3800.239                          | Wreck and rebuild 230 kV line No. 203 between Pleasant View and structure 203/15 using double circuit 500/230 kV structures. The 500 kV line is from Aspen - Doubs  | APS (8.09%) / BGE (8.25%) / Dominion (64.87%) / PEPCO (18.79%) |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b3800.240                          | Build a new 500 kV line from Aspen - Doubs using double circuit 500/230 kV structures. The 230 kV line is from Pleasant View - structure 203/15. Install terminal equipment at Aspen for a 5000A line to Doubs. This includes GIS breakers, GIS-to-AIS transition equipment, and metering CCVTs and CTs for the tie line   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (0.09%) / Dominion (99.89%) / PEPCO (0.02%)</p> |
| b3800.241                          | Rebuild 500 kV line No. 514 from Goose Creek - Doubs using 500/230 kV double circuit structures. The new double circuit towers will accommodate 230 kV line No. 2098 between Pleasant View substation and structure 2098/9. Upgrade equipment at Goose Creek to 5000A continuous current rating in support of line No. 514 wreck and rebuild. Replace circuit breakers 514T595 & 51482 and associated disconnect switches, breaker leads, bus, and line risers to accommodate 5000A rating | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (0.08%) / Dominion (99.90%) / PEPCO (0.02%)</p> |
| b3800.242                          | Upgrading switches 20366M and 20369M and line leads to 4000A continuous current rating of 230 kV line No. 203 at Edwards Ferry substation  | <p>APS (11.45%) / BGE (14.14%) / Dominion (42.82%) / PEPCO (31.59%)</p>   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3800.300                          | Rebuild 230 kV line No. 2135 Hollymeade Junction – Cash’s Corner using double-circuit capable 500/230 kV poles. New conductor has a summer rating of 1573 MVA. (The 500 kV circuit will not be wired as part of this project) | Dominion (100%)         |
| b3800.301                          | Rebuild 230 kV line No. 2135 Cash’s Corner - Gordonsville using double-circuit capable 500/230 kV poles. New conductor has a summer rating of 1573 MVA. (The 500 kV circuit will not be wired as part of this project)        | Dominion (100%)         |
| b3800.302                          | Upgrade Cash’s Corner switches 213576 and 213579 and line leads to 4000A continuous current rating of 230 kV line No. 2135  | Dominion (100%)         |
| b3800.303                          | Upgrade Gordonsville substation line leads to 4000A continuous current rating of 230 kV line No. 2135   | Dominion (100%)         |
| b3800.304                          | Upgrade Hollymeade substation switch 213549 and line leads to 4000A continuous current rating of 230 kV line No. 2135   | Dominion (100%)         |
| b3800.305                          | Install one 230 kV 300 MVAR STATCOM and associated equipment at Beaumeade 230 kV substation   | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b3800.306                          | Install one 500 kV, 150 MVAR Shunt Capacitor Bank and associated equipment at Morrisville substation. This addition will require a control house expansion to accommodate for two new panels | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |
| b3800.307                          | Install one 500 kV, 300 MVAR STATCOM and associated equipment at Mars substation   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |
| b3800.308                          | Install one 230 kV, 150 MVAR Shunt Capacitor Bank and associated equipment at Mars substation  | <p>Dominion (100%)</p>  |
| b3800.309                          | Install one 230 kV, 150 MVAR Shunt Capacitor Bank and associated equipment at Wishing Star substation  | <p>Dominion (100%)</p>  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b3800.310                          | Install one 500 kV, 293.8 MVAR Shunt Capacitor Bank & associated equipment at Wishing Star substation  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p>                   |
| b3800.311                          | Rebuild 500 kV line No. 545 Bristers - Morrisville as a single circuit monopole line to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 4357 MVA | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     Dominion (91.07%) / PEPCO (8.93%)</p> |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3800.312                          | Rebuild 500 kV line No. 569 Loudoun - Morrisville to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 4357 MVA | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (11.72%) / Dominion (88.28%)</p>                               |
| b3800.313                          | Rebuild approximately 10.29 miles 500 kV line segment of line No. 535 (Meadow Brook to Loudoun) to accommodate the new 500 kV line in the existing ROW      | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (13.93%) / BGE (6.86%) / Dominion (70.92%) / PEPCO (8.29%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3800.314                          | Rebuild approximately 4.83 miles of 500 kV line No. 546 Mosby - Wishing Star to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 4357 MVA. Upgrade and install equipment at Mosby substation to upgrade terminal equipment to be rated for 5000A for 500 kV line No. 546 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (41.98%) / Dominion (34.03%) / PEPCO (23.99%)</p> |
| b3800.315                          | Rebuild approximately 4.59 miles of 500 kV line No. 590 Mosby - Wishing Star to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 4357 MVA. Upgrade and install equipment at Mosby substation to upgrade terminal equipment to be rated for 5000A for 500 kV line No. 590 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (41.98%) / Dominion (34.03%) / PEPCO (23.99%)</p> |
| b3800.316                          | Rebuild approximately 6.17 miles of 230 kV line No. 2030 Gainesville - Mint Springs to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA   | <p style="text-align: center;">Dominion (100%)</p>  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b3800.317                          | Rebuild approximately 1.58 miles of 230 kV line No. 2030 Mint Springs - Loudoun to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA    |  | Dominion (100%)         |
| b3800.318                          | Rebuild approximately 4.2 miles of 230 kV line No. 2045 Loudoun - North Star to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA       |  | Dominion (100%)         |
| b3800.319                          | Rebuild approximately 0.88 miles of 230 kV line No. 2045 North Star - Brambleton to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA   |  | Dominion (100%)         |
| b3800.320                          | Rebuild approximately 1.22 miles of 230 kV line No. 2227 Brambleton - Racefield to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA    |  | Dominion (100%)         |
| b3800.321                          | Rebuild approximately 3.69 miles of 230 kV line No. 2094 Racefield - Loudoun to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA       |  | Dominion (100%)         |
| b3800.322                          | Rebuild approximately 9.16 miles of 230 kV line No. 2101 Bristers - Nokesville to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA     |  | Dominion (100%)         |
| b3800.323                          | Rebuild approximately 2.89 miles of 230 kV line No. 2101 Nokesville - Vint Hill TP to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA |  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b3800.324                          | Rebuild approximately 0.33 miles of 230 kV line No. 2101 Vint Hill TP - Vint Hill to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA  |  | Dominion (100%)         |
| b3800.325                          | Rebuild approximately 3.32 miles of 230 kV line No. 2114 Rollins Ford - Vint Hill to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA  |  | Dominion (100%)         |
| b3800.326                          | Rebuild approximately 10.09 miles of 230 kV line No. 2114 Vint Hill - Elk Run to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA      |  | Dominion (100%)         |
| b3800.327                          | Rebuild approximately 4.43 miles of 230 kV line No. 2140 Heathcote - Catharpin to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA     |  | Dominion (100%)         |
| b3800.328                          | Rebuild approximately 2.88 miles of 230 kV line No. 2140 Catharpin - Loudoun to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA       |  | Dominion (100%)         |
| b3800.329                          | Rebuild approximately 0.25 miles of 230 kV line No. 2151 Railroad DP - Gainesville to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA |  | Dominion (100%)         |
| b3800.330                          | Rebuild approximately 4.14 miles of 230 kV line No. 2163 Vint Hill - Liberty to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA       |  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3800.331                          | Rebuild approximately 0.48 miles of 230 kV line No. 2176 Heathcote - Gainesville to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA    | Dominion (100%)   |
| b3800.332                          | Rebuild approximately 1.11 miles of 230 kV line No. 2222 Rollins Ford - Gainesville to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA | Dominion (100%)   |
| b3800.333                          | Rebuild approximately 1.65 miles of 115 kV line No. 183 Bristers - Ox to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA               | Dominion (100%)   |
| b3800.334                          | Replace four overdutied 230 kV breakers at Loudoun Substation with 80 kA breakers   | Dominion (100%)   |
| b3800.335                          | Replace one overdutied 500 kV breaker at Ox Substation with a 63 kA breaker   | Dominion (100%)   |
| b3800.336                          | Upgrade and install equipment at Bristers substation to support the new conductor 5000A rating for 500 kV line No. 545  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     Dominion (91.07%) / PEPCO (8.93%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b3800.337                          | Upgrade and install equipment at Brambleton substation to support the new conductor termination. All terminal equipment for 230 kV lines No. 2045 and No. 2094 to be rated for 4000A continuous current rating |  | Dominion (100%)         |
| b3800.338                          | Revise relay settings at Dawkins Branch 230 kV station   |  | Dominion (100%)         |
| b3800.339                          | Upgrade and install equipment at Gainesville 230 kV substation to support the new conductor termination. All terminal equipment for 230 kV line No. 2030 to be rated for 4000A continuous current rating       |  | Dominion (100%)         |
| b3800.340                          | Revise relay settings at Heathcote 230 kV station  |  | Dominion (100%)         |
| b3800.341                          | Upgrade and install equipment at Loudoun substation for 230 kV line No. 2094 Loudoun - Racefield to be rated for 4000A continuous current rating   |  | Dominion (100%)         |
| b3800.342                          | Upgrade and install equipment at Loudoun substation for 230 kV line No. 2045 Loudoun - North Star to be rated for 4000A continuous current rating  |  | Dominion (100%)         |
| b3800.343                          | Upgrade and install equipment at Loudoun substation for 230 kV line No. 2030 Loudoun - Mint Springs to be rated for 4000A continuous current rating  |  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3800.344                          | Upgrade and install equipment at Loudoun substation to support the new conductor 5000A rating for 500 kV line No. 569 Loudoun - Morrisville  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (11.72%) / Dominion (88.28%)</p> |
| b3800.345                          | Revise relay settings at 230 kV Mint Springs station   | Dominion (100%)  |
| b3800.346                          | Upgrade and install equipment at Morrisville substation to support the new 500 kV conductor termination. All terminal equipment to be rated for 5000A for 500 kV line No. 545 and No. 569. Upgrade 500 kV bus 2 to 5000A | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (11.72%) / Dominion (88.28%)</p> |
| b3800.347                          | Revise relay settings at North Star 230 kV station   | Dominion (100%)  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b3800.348                          | Revise relay settings at Racefield 230 kV station  | Dominion (100%)   |
| b3800.349                          | Revise relay settings at Railroad 230 kV station   | Dominion (100%)   |
| b3800.350                          | Install terminal equipment at Vint Hill 500 kV substation to support a 5000A line to 500 kV Morrisville substation. Update relay settings for 230 kV lines No. 2101, No. 2163, and 500 kV line No. 535 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (9.79%) / Dominion (90.21%)</p> |
| b3800.351                          | Update relay settings at Vint Hill for 230 kV line No. 2101 Vint Hill - Bristers   | Dominion (100%)   |
| b3800.352                          | Update relay settings at Vint Hill for 230 kV line No. 2163 Vint Hill - Liberty  | Dominion (100%)   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3800.353                          | Update relay settings at Vint Hill for 500 kV line No. 535 Vint Hill - Loudoun  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (13.93%) / BGE (6.86%) / Dominion (70.92%) / PEPCO (8.29%)</p> |
| b3800.354                          | Install terminal equipment at Wishing Star 500 kV substation to support a 5000A line to Vint Hill. Update relay settings for 500 kV lines No. 546 and No. 590 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (21.45%) / Dominion (78.55%)</p>                               |
| b3800.355                          | Revise relay settings at Youngs Branch 230 kV station   | Dominion (100%)  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3800.356                          | Build a new 500 kV line from Vint Hill to Wishing Star. The line will be supported on single circuit monopoles. New conductor to have a summer rating of 4357 MVA. Line length is approximately 16.59 miles | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (21.45%) / Dominion (78.55%)</p> |
| b3800.357                          | Build a new 500 kV line from Morrisville to Vint Hill. New conductor to have a summer rating of 4357 MVA. Line length is approximately 19.71 miles  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <hr/> <p><b>DFAX Allocation:</b><br/>                     APS (9.79%) / Dominion (90.21%)</p>  |
| b3800.358                          | Replace single unit Locks 230/115 kV 168 MVA transformer TX No.7 with new single unit transformer with a rating of 224 MVA. Lead lines at the 115 kV level will be upgraded to 2000A                        | <p>Dominion (100%)</p>   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3800.359                          | Wreck and rebuild 230 kV line No. 2090 Ladysmith CT - Summit D.P. segment as a double circuit 230 kV line to achieve a summer rating of 1573 MVA. Only one circuit will be wired at this stage. Upgrade circuit breaker leads, switches and line leads at Ladysmith CT to 4000A | Dominion (100%)         |
| b3800.360                          | Rebuild 230 kV line No. 2054 Charlottesville - Proffit DP using double-circuit capable 500/230 kV poles. (The 500 kV circuit will not be wired as part of this project)   | Dominion (100%)         |
| b3800.361                          | Rebuild 230 kV line No. 233 Charlottesville - Hydraulic Road - Barracks Road - Crozet-Dooms   | Dominion (100%)         |
| b3800.362                          | Rebuild 230 kV line No. 291 segment from Charlottesville - Barracks Road  | Dominion (100%)         |
| b3800.363                          | Rebuild 230 kV line No. 291 segment from Barracks Road - Crozet   | Dominion (100%)         |
| b3800.364                          | Rebuild 230 kV line No. 291 segment Crozet - Dooms  | Dominion (100%)         |
| b3800.365                          | Hollymeade substation Relay Revision for 230 kV line No. 2054 Charlottesville - Hollymeade  | Dominion (100%)         |
| b3800.366                          | Upgrade the terminal equipment at 230 kV Charlottesville station to 4000A for 230 kV line No. 2054 (Charlottesville - Hollymeade)   | Dominion (100%)         |
| b3800.367                          | Proffit DP substation Relay revision for 230 kV line No. 2054 Charlottesville - Hollymeade  | Dominion (100%)         |
| b3800.368                          | Barracks Road substation relay reset to accommodate the rebuilt line 230 kV lines No. 233 and No. 291   | Dominion (100%)         |
| b3800.369                          | Crozet substation relay reset to accommodate the rebuilt 230 kV lines No. 233 and No. 291   | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3800.370                          | Charlottesville 230 kV substation terminal equipment upgrade for 230 kV lines No. 233 and No. 291 rebuild   | Dominion (100%)         |
| b3800.371                          | Upgrade Hydraulic Road substation equipment for 230 kV line No. 233 and No. 291 rebuild   | Dominion (100%)         |
| b3800.372                          | Dooms substation terminal equipment upgrade for 230 kV line No. 233 and No. 291 rebuild   | Dominion (100%)         |
| b3800.373                          | Wreck and rebuild approximately 7.14 miles of 230 kV line No. 256 from St. Johns to structure 256/108 to achieve a summer rating of 1573 MVA. Line switch 25666 at St. Johns to be upgraded to 4000A              | Dominion (100%)         |
| b3800.374                          | Reconductor approximately 5.30 miles of 230 kV line No. 256 from Ladysmith CT to structure 256/107 to achieve a summer rating of 1573 MVA. Terminal equipment at remote end substations will be upgraded to 4000A | Dominion (100%)         |
| b3800.401                          | Replace Ashburn 230 kV breaker SC432 with a breaker rated 63 kA   | Dominion (100%)         |
| b3800.402                          | Replace Beaumeade 230 kV breaker 227T2152 with a breaker rated 80 kA  | Dominion (100%)         |
| b3800.403                          | Replace BECO 230 kV breakers 215012 and H12T2150 with breakers rated 63 kA  | Dominion (100%)         |
| b3800.404                          | Replace Belmont 230 kV breaker 227T2180 with a breaker rated 80 kA  | Dominion (100%)         |
| b3800.405                          | Replace Brambleton 230 kV breakers 20102, 20602, 204502, 209402, 201T2045, 206T2094 with breakers rated 80 kA   | Dominion (100%)         |
| b3800.406                          | Replace Gainesville 230 kV breaker 216192 with a breaker rated 80 kA  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3800.407                          | Replace Loudoun 230 kV breakers 204552, 217352 with breakers rated 80 kA                                     | Dominion (100%)         |
| b3800.408                          | Replace Ox 230 kV breakers 22042, 24342, 24842, 220T2063, 243T2097, 248T2013, H342 with breakers rated 80 kA | Dominion (100%)         |
| b3800.409                          | Replace Paragon Park 230 kV breakers 208132, 215032, 2081T2206, 2150T2207 with breakers rated 80 kA          | Dominion (100%)         |
| b3800.410                          | Replace Reston 230 kV breaker 264T2015 with a breaker rated 63 kA  | Dominion (100%)         |
| b3800.411                          | Replace Stonewater 230 kV breakers 20662-1, 20662-2, 217862-1, 217862-2 with breakers rated 80 kA            | Dominion (100%)         |
| b3800.412                          | Replace Waxpool 230 kV breakers 214922-5, 214922-6, 216622-5, 216622-6 with breakers rated 63 kA             | Dominion (100%)         |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 33 – Keystone Appalachian  
Transmission Co.  
Effective April 9, 2024  
Version 0.0.1

**SCHEDULE 12 – APPENDIX A**

**(33) Keystone Appalachian Transmission Company**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2120                              | Six-Wire Lake Lynn - Lardin<br>138 kV circuits   | APS (100%)              |
| b2174.8                            | Replace relays at Mitchell<br>substation   | APS (100%)              |
| b2174.9                            | Replace primary relay at Piney<br>Fork substation  | APS (100%)              |
| b2174.10                           | Perform relay setting changes<br>at Bethel Park substation   | APS (100%)              |
| b2213                              | Armstrong Substation:<br>Relocate 138 kV controls from<br>the generating station building<br>to new control building   | APS (100%)              |
| b2300                              | Reconductor from Lake Lynn -<br>West Run 138 kV  | APS (100%)              |
| b2341                              | Install 39.6 MVAR Capacitor<br>at Shaffers Corner 138 kV<br>Substation   | APS (100%)              |
| b2362                              | Install a 250 MVAR SVC at<br>Squab Hollow 230 kV   | APS (100%)              |
| b2362.1                            | Install a 230 kV breaker at<br>Squab Hollow 230 kV<br>substation   | APS (100%)              |
| b2363                              | Convert the Shingletown 230<br>kV bus into a 6 breaker ring<br>bus   | APS (100%)              |
| b2364                              | Install a new 230/138 kV<br>transformer at Squab Hollow<br>230 kV substation. Loop the<br>Forest - Elko 230 kV line into<br>Squab Hollow. Loop the<br>Brookville - Elko 138 kV line<br>into Squab Hollow | APS (100%)              |
| b2412                              | Install a 44 MVAR 138 kV<br>capacitor at the Hempfield 138<br>kV substation  | APS (100%)              |

**Keystone Appalachian Transmission Company (cont.)**

|         | Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s) |
|---------|--|----------------------------|-------------------------|
| b2440   | Replace the Cabot 138kV breaker 'C9-KISKI VLY' with 63kA   |                            | APS (100%)              |
| b2546   | Install a 51.8 MVAR (rated) 138 kV capacitor at Nyswaner 138 kV substation   |                            | APS (100%)              |
| b2547.1 | Construct a new 138 kV six breaker ring bus Hillman substation   |                            | APS (100%)              |
| b2547.2 | Loop Smith- Imperial 138 kV line into the new Hillman substation   |                            | APS (100%)              |
| b2547.3 | Install +125/-75 MVAR SVC at Hillman substation  |                            | APS (100%)              |
| b2547.4 | Install two 31.7 MVAR 138 kV capacitors  |                            | APS (100%)              |
| b2548   | Eliminate clearance de-rate on Wylie Ridge – Smith 138 kV line and upgrade terminals at Smith 138 kV, new line ratings 294 MVA (Rate A)/350 MVA (Rate B) |                            | APS (100%)              |
| b2612.1 | Relocate All Dam 6 138 kV line and the 138 kV line to AE units 1&2   |                            | APS (100%)              |
| b2612.2 | Install 138 kV, 3000A bus-tie breaker in the open bus-tie position next to the Shaffers corner 138 kV line   |                            | APS (100%)              |
| b2612.3 | Install a 6-pole manual switch, foundation, control cable, and all associated facilities   |                            | APS (100%)              |
| b2666   | Yukon 138 kV Breaker Replacement   |                            | APS (100%)              |
| b2666.1 | Replace Yukon 138 kV breaker “Y-11(CHARL1)” with an 80 kA breaker  |                            | APS (100%)              |

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2666.2                            | Replace Yukon 138 kV breaker “Y-13(BETHEL)” with an 80 kA breaker  | APS (100%)              |
| b2666.3                            | Replace Yukon 138 kV breaker “Y-18(CHARL2)” with an 80 kA breaker  | APS (100%)              |
| b2666.4                            | Replace Yukon 138 kV breaker “Y-19(CHARL2)” with an 80 kA breaker  | APS (100%)              |
| b2666.5                            | Replace Yukon 138 kV breaker “Y-4(4B-2BUS)” with an 80 kA breaker  | APS (100%)              |
| b2666.6                            | Replace Yukon 138 kV breaker “Y-5(LAYTON)” with an 80 kA breaker   | APS (100%)              |
| b2666.7                            | Replace Yukon 138 kV breaker “Y-8(HUNTING)” with an 80 kA breaker  | APS (100%)              |
| b2666.8                            | Replace Yukon 138 kV breaker “Y-9(SPRINGD)” with an 80 kA breaker  | APS (100%)              |
| b2666.9                            | Replace Yukon 138 kV breaker “Y-10(CHRL-SP)” with an 80 kA breaker | APS (100%)              |
| b2666.10                           | Replace Yukon 138 kV breaker “Y-12(1-1BUS)” with an 80 kA breaker  | APS (100%)              |
| b2666.11                           | Replace Yukon 138 kV breaker “Y-14(4-1BUS)” with an 80 kA breaker  | APS (100%)              |
| b2666.12                           | Replace Yukon 138 kV breaker “Y-2(1B-BETHE)” with an 80 kA breaker | APS (100%)              |
| b2666.13                           | Replace Yukon 138 kV breaker “Y-21(SHEPJ)” with an 80 kA breaker   | APS (100%)              |
| b2666.14                           | Replace Yukon 138 kV breaker “Y-22(SHEPHJT)” with an 80 kA breaker | APS (100%)              |

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)    |
|------------------------------------|--|----------------------------|
| b2689.3                            | Upgrade terminal equipment at structure 27A  | APS (100%)                 |
| b2696                              | Upgrade 138 kV substation equipment at Butler, Shanor Manor and Krendale substations. New rating of line will be 353 MVA summer normal/422 MVA emergency                                 | APS (100%)                 |
| b2763                              | Replace the breaker risers and wave trap at Bredinville 138 kV substation on the Cabrey Junction 138 kV terminal   | APS (100%)                 |
| b2965                              | Reconductor the Charleroi – Allenport 138 kV line with 954 ACSR conductor. Replace breaker risers at Charleroi and Allenport   | APS (37.15%) / DL (62.85%) |
| b2966                              | Reconductor the Yukon – Smithton – Shepler Hill Jct 138 kV line with 795 ACSS conductor. Replace Line Disconnect Switch at Yukon   | APS (100%)                 |
| b2966.1                            | Reconductor the Yukon - Smithton - Shepler Hill Jct 138 kV line and replace terminal equipment as necessary to achieve required rating   | APS (100%)                 |
| b2967                              | Convert the existing 6 wire Butler - Shanor Manor - Krendale 138 kV line into two separate 138 kV lines. New lines will be Butler - Keisters and Butler - Shanor Manor - Krendale 138 kV | APS (100%)                 |

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)    |
|------------------------------------|--|----------------------------|
| b3005                              | Reconductor 3.1 mile 556 ACSR portion of Cabot to Butler 138 kV with 556 ACSS and upgrade terminal equipment. 3.1 miles of line will be reconducted for this project. The total length of the line is 7.75 miles   | APS (100%)                 |
| b3006                              | Replace four Yukon 500/138 kV transformers with three transformers with higher rating and reconfigure 500 kV bus   | APS (56.81%) / DL (43.19%) |
| b3007.1                            | Reconductor the Blairsville East to Social Hall 138 kV line and upgrade terminal equipment - AP portion. 4.8 miles total. The new conductor will be 636 ACSS replacing the existing 636 ACSR conductor. At Social Hall, meters, relays, bus conductor, a wave trap, circuit breaker and disconnects will be replaced | APS (100%)                 |
| b3010                              | Replace terminal equipment at Keystone and Cabot 500 kV buses. At Keystone, bus tubing and conductor, a wave trap, and meter will be replaced. At Cabot, a wave trap and bus conductor will be replaced  | APS (100%)                 |
| b3011.1                            | Construct new Route 51 substation and connect 10 138 kV lines to new substation  | DL (100%)                  |
| b3011.2                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Charleroi #2 138 kV line (New Yukon to Route 51 #4 138 kV line)   | APS (9.17%) / DL (90.83%)  |
| b3011.3                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #1 138 kV line   | DL (100%)                  |

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)     |
|------------------------------------|---|-----------------------------|
| b3011.4                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #2 138 kV line  | DL (100%)                   |
| b3011.5                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #3 138 kV line  | APS (9.17%) / DL (90.83%)   |
| b3011.6                            | Upgrade remote end relays for Yukon – Allenport – Iron Bridge 138 kV line   | DL (100%)                   |
| b3012.1                            | Construct two new 138 kV ties with the single structure from APS’s new substation to Duquesne’s new substation. The estimated line length is approximately 4.7 miles. The line is planned to use multiple ACSS conductors per phase | ATSI (38.21%) / DL (61.79%) |
| b3012.3                            | Construct a new Elrama – Route 51 138 kV No.3 line: reconductor 4.7 miles of the existing line, and construct 1.5 miles of a new line to the reconducted portion. Install a new line terminal at APS Route 51 substation            | DL (100%)                   |
| b3013                              | Reconductor Vasco Tap to Edgewater Tap 138 kV line. 4.4 miles. The new conductor will be 336 ACSS replacing the existing 336 ACSR conductor   | APS (100%)                  |
| b3015.6                            | Reconductor Elrama to Mitchell 138 kV line – AP portion. 4.2 miles total. 2x 795 ACSS/TW 20/7   | DL (100%)                   |
| b3015.8                            | Upgrade terminal equipment at Mitchell for Mitchell – Elrama 138 kV line  | APS (100%)                  |

**Keystone Appalachian Transmission Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)    |
|------------------------------------|---|----------------------------|
| b3064.3                            | Upgrade line relaying at Piney Fork and Bethel Park for Piney Fork – Elrama 138 kV line and Bethel Park – Elrama 138 kV                                   | APS (100%)                 |
| b3068                              | Reconductor the Yukon – Westraver 138 kV line (2.8 miles), replace the line drops and relays at Yukon 138 kV and replace switches at Westraver 138 kV bus | APS (100%)                 |
| b3069                              | Reconductor the Westraver – Route 51 138 kV line (5.63 miles) and replace line switches at Westraver 138 kV bus   | APS (100%)                 |
| b3070                              | Reconductor the Yukon – Route 51 #1 138 kV line (8 miles), replace the line drops, relays and line disconnect switch at Yukon 138 kV bus                  | APS (100%)                 |
| b3071                              | Reconductor the Yukon – Route 51 #2 138 kV line (8 miles) and replace relays at Yukon 138 kV bus  | APS (100%)                 |
| b3072                              | Reconductor the Yukon – Route 51 #3 138 kV line (8 miles) and replace relays at Yukon 138 kV bus  | APS (100%)                 |
| b3074                              | Reconductor the 138 kV bus at Armstrong substation  | APS (100%)                 |
| b3075                              | Replace the 500/138 kV transformer breaker and reconductor 138 kV bus at Cabot substation   | APS (100%)                 |
| b3076                              | Reconductor the Edgewater – Loyalhanna 138 kV line (0.67 mile)  | APS (100%)                 |
| b3083                              | Reconductor the 138 kV bus at Butler and reconductor the 138 kV bus and replace line trap at Karns City   | APS (100%)                 |
| b3214.1                            | Reconductor the Yukon – Smithton – Shepler Hill Jct 138 kV Line. Upgrade terminal equipment at Yukon and replace line relaying at Mitchell and Charleroi  | APS (75.27%) / DL (24.73%) |
| b3214.2                            | Reconductor the Smithton – Shepler Hill Jct 138 kV Line   | APS (79.68%) / DL (20.32%) |
| b3230                              | At Enon substation install a second 138 kV, 28.8 MVAR nameplate, capacitor and the associated 138 kV capacitor switcher                                   | APS (100%)                 |

**Keystone Appalachian Transmission Company (cont.)**

|       | Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s) |
|-------|--|----------------------------|-------------------------|
| b3318 | Reconductor the Shanor Manor - Butler 138 kV line with an upgraded circuit breaker at Butler 138 kV station  |                            | APS (100%)              |
| b3325 | Reconductor the Charleroi - Union 138 kV line and upgrade terminal equipment at Charleroi 138 kV station   |                            | APS (100%)              |
| b3681 | Upgrade the Shingletown #82 230/46 kV Transformer circuit by installing a 230 kV breaker and disconnect switches, removing existing 230 kV switches, replacing 46 kV disconnect switches, replacing limiting substation conductor, and installing/replacing relays   |                            | APS (100%)              |
| b3710 | Reconductor AA2-161 to Yukon 138 kV Lines #1 and #2 with 954 ACSS conductor  |                            | APS (100%)              |
| b3738 | Replace limiting terminal equipment on Charleroi – Dry Run 138 kV line   |                            | APS (100%)              |
| b3739 | Replace limiting terminal equipment on Dry Run – Mitchell 138 kV line  |                            | APS (100%)              |
| b3740 | Replace limiting terminal equipment on Glen Falls –Bridgeport 138 kV line  |                            | APS (100%)              |
| b3741 | Replace limiting terminal equipment on Yukon - Charleroi #1 138 kV line  |                            | APS (100%)              |
| b3742 | Replace limiting terminal equipment on Yukon - Charleroi #2 138 kV line  |                            | APS (100%)              |
| b3744 | Replace one span of 1272 ACSR from Krendale substation to structure 35 (approximately 630 feet)<br>Replace one span of 1272 ACSR from Shanor Manor to structure 21 (approximately 148 feet) Replace 1272 ACSR risers at Krendale and Shanor Manor substations<br>Replace 1272 ACSR substation conductor at Krendale substation Replace relaying at Krendale substation<br>Revise relay settings at Butler and Shanor Manor substations |                            | APS (100%)              |

**Keystone Appalachian Transmission Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |            |
|-------|---|--|------------|
| b3745 | Install redundant relaying at Carbon Center 230 kV substation   |  | APS (100%) |
| b3761 | Install 138 kV breaker on the Ridgway 138/46 kV #2 Transformer  |  | APS (100%) |
| b3773 | Install 33 MVAR switched capacitor, 138 kV breaker, and associated relaying at McConnellsburg 138 kV substation |  | APS (100%) |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix C  
SAA Cost Responsibility  
Effective April 9, 2024  
Version 4.0.1

## **Schedule 12 - Appendix C**

### **State Agreement Public Policy Projects Constructed Pursuant to the State Agreement Approach**

This Schedule 12 - Appendix C applies only to the assignment of cost responsibility of State Agreement Public Policy Projects constructed in accordance with Operating Agreement, Schedule 6, section 1.5.9 among Responsible Customers.

**(1) Rate Schedule FERC No. 49, State Agreement Approach Agreement By and Among PJM Interconnection, L.L.C. and New Jersey Board of Public Utilities**

In accordance with the FERC order in Docket Nos. ER22-2690-000 and -001, 181 FERC ¶ 61,178 (2022), cost responsibility for the State Agreement Public Policy Projects shall be assigned annually on a load-ratio share basis among Network Customers in the State of New Jersey determined in accordance with Schedule 12, section (c)(4), and customers using Point-to-Point Transmission Service with a Point of Delivery within the State of New Jersey determined in accordance with Schedule 12, section (c)(5), as follows:

With respect to each Zone located in the State of New Jersey, using, consistent with Tariff, Part III, section 34.1, the applicable zonal loads at the time of such Zone’s annual peak load from the 12-month period ending October 31 preceding the calendar year for which the annual cost responsibility allocation is determined.

| <b>Identifier</b> | <b>Description</b>   | <b>Responsible Customers (percentage share)</b>           | <b>Transmission Owner</b>            |
|-------------------|--|---|--------------------------------------|
| b3737.1           | Reconfigure Larrabee 230 kV substation   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.2           | Larrabee substation – 230 kV equipment for direct connection   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.3           | Lakewood Generator substation – Update relay settings on the Larrabee 230 kV line  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.4           | B54 Larrabee – South Lockwood 34.5 kV line transfer  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.5           | Larrabee Collector station – Larrabee 230 kV new line  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.6           | Larrabee Collector station – Smithburg No.1 500 kV line (new asset). New 500 kV line will be built double circuit to accommodate a 500 kV line and a 230 kV line | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.7           | Rebuild G1021 Atlantic – Smithburg 230 kV line between the Larrabee and Smithburg substations as a double circuit 500 kV/230 kV line                             | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |

| <b>Identifier</b> | <b>Description</b>  | <b>Responsible Customers<br/>(percentage share)</b>       | <b>Transmission Owner</b>            |
|-------------------|---|---|--------------------------------------|
| b3737.8           | Smithburg substation 500 kV expansion to 4-breaker ring   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.9           | Larrabee substation upgrades  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.10          | Atlantic 230 kV substation – Convert to double-breaker double-bus   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.11          | Freneau substation – Update relay settings on the Atlantic 230 kV line  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.12          | Smithburg substation – Update relay settings on the Atlantic 230 kV line  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.13          | Oceanview substation – Update relay settings on the Atlantic 230 kV lines   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.14          | Red Bank substation – Update relay settings on the Atlantic 230 kV lines  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.15          | South River substation – Update relay settings on the Atlantic 230 kV line  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.16          | Larrabee substation – Update relay settings on the Atlantic 230 kV line   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.17          | Atlantic substation – Construct a new 230 kV line terminal position to accept the generator lead line from the offshore wind Larrabee Collector station | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.18          | G1021 (Atlantic – Smithburg) 230 kV upgrade   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.19          | R1032 (Atlantic – Larrabee) 230 kV upgrade  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |
| b3737.20          | New Larrabee Collector station – Atlantic 230 kV line   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company |

| <b>Identifier</b> | <b>Description</b>  | <b>Responsible Customers<br/>(percentage share)</b>       | <b>Transmission<br/>Owner</b>          |
|-------------------|---|---|--|
| b3737.21          | Larrabee – Oceanview 230 kV line upgrade  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company   |
| b3737.22          | Construct the Larrabee Collector station AC switchyard, composed of a 230 kV 3 bay breaker and a half substation with a nominal current rating of 4000 A and four single phase 500/230 kV 450 MVA autotransformers to step up the voltage for connection to the Smithburg substation. Procure land adjacent to the AC switchyard, and prepare the site for construction of future AC to DC converters for future interconnection of DC circuits from offshore wind generation. Land should be suitable to accommodate installation of four individual converters to accommodate circuits with equivalent rating of 1400 MVA at 400 kV | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Mid-Atlantic Offshore Development, LLC |
| b3737.23          | Rebuild the underground portion of Richmond – Waneeta 230 kV line   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Atlantic City Electric Company         |
| b3737.24          | Upgrade Cardiff – Lewis 138 kV by replacing 1590 kcmil strand bus inside Lewis substation   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Atlantic City Electric Company         |
| b3737.25          | Upgrade Lewis No. 2 – Lewis No. 1 138 kV by replacing its bus tie with 2000 A circuit breaker   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Atlantic City Electric Company         |
| b3737.26          | Upgrade Cardiff – New Freedom 230 kV by modifying existing relay setting to increase relay limit  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Atlantic City Electric Company         |
| b3737.27          | Rebuild approximately 0.8 miles of the D1018 (Clarksville –Lawrence 230 kV) line between Lawrence substation (PSEG) and structure No. 63  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company   |
| b3737.28          | Reconductor Kilmer I – Lake Nelson I 230 kV   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company   |
| b3737.29          | Convert the six-wired East Windsor – Smithburg E2005 230 kV line (9.0 miles) to two circuits: One a 500 kV line and the other a 230 kV line   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company   |

| <b>Identifier</b> | <b>Description</b>   | <b>Responsible Customers<br/>(percentage share)</b>       | <b>Transmission Owner</b>               |
|-------------------|--|---|---|
| b3737.30          | Add third Smithburg 500/230 kV transformer   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company    |
| b3737.31          | Additional reconductoring required for Lake Nelson I – Middlesex 230 kV line   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company    |
| b3737.32          | Rebuild Larrabee – Smithburg No. 1 230 kV line   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company    |
| b3737.33          | Reconductor Red Oak A – Raritan River 230 kV line  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company    |
| b3737.34          | Reconductor Red Oak B – Raritan River 230 kV line  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company    |
| b3737.35          | Reconductor small section of Raritan River – Kilmer I 230 kV line  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company    |
| b3737.36          | Replace substation conductor at Kilmer and reconductor Raritan River – Kilmer W 230 kV line  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company    |
| b3737.37          | Add a third set of submarine cables, rerate the overhead segment, and upgrade terminal equipment to achieve a higher rating for the Silver Run – Hope Creek 230 kV line  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Silver Run Electric, LLC                |
| b3737.38          | Linden subproject: Install a new 345/230 kV transformer at the Linden 345 kV switching station, and relocate the Linden – Tosco 230 kV (B-2254) line from the Linden 230 kV to the existing 345/230 kV transformer at Linden 345 kV station          | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Public Service Electric and Gas Company |
| b3737.39          | Bergen subproject: Upgrade the Bergen 138 kV ring bus by installing a 80 kA breaker along with the foundation, piles, and relays to the existing ring bus, install breaker isolation switches on existing foundations and modify and extend bus work | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Public Service Electric and Gas Company |

| <b>Identifier</b> | <b>Description</b>   | <b>Responsible Customers<br/>(percentage share)</b>       | <b>Transmission Owner</b>               |
|-------------------|--|---|---|
| b3737.40          | Windsor to Clarksville subproject:<br>Create a paired conductor path between Clarksville 230 kV and JCPL Windsor Switch 230 kV   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company    |
| b3737.41          | Windsor to Clarksville subproject:<br>Upgrade all terminal equipment at Windsor 230 kV and Clarksville 230 kV as necessary to create a paired conductor path between Clarksville and JCPL East Windsor Switch 230 kV | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Public Service Electric and Gas Company |
| b3737.42          | Upgrade inside plant equipment at Lake Nelson I 230 kV station   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Public Service Electric and Gas Company |
| b3737.43          | Upgrade Kilmer W – Lake Nelson W 230 kV line drop and strain bus connections at Lake Nelson 230 kV   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Public Service Electric and Gas Company |
| b3737.44          | Upgrade Lake Nelson – Middlesex – Greenbrook W 230 kV line drop and strain bus connections at Lake Nelson 230 kV   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Public Service Electric and Gas Company |
| b3737.45          | Reconductor 0.33 miles of PPL's portion of the Gilbert –Springfield 230 kV line  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | PPL Electric Utilities Corporation      |
| b3737.46          | Install a new breaker at Graceton 230 kV substation to terminate a new 230 kV line from the new greenfield North Delta station   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Baltimore Gas and Electric Company      |

| Identifier            | Description  | Responsible Customers<br>(percentage share)  | Transmission<br>Owner |
|-----------------------|--|--|-----------------------|
| b3737.47 <sup>+</sup> | Build a new North Delta 500 kV substation with four bay breaker and half configuration. The substation will include 12 500 kV breakers and one 500/230 kV transformers, will allow the termination of six 500 kV lines | <p><b>Reliability Driver (26.73%):</b></p> <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/> PECO (100%)</p> <hr/> <p><b>Public Policy Driver (73.27%):</b><br/> AEC (13.55%) / JCPL (31.74%) / PSEG (52.60%) / RE (2.11%)</p> | Transource, LLC       |
| b3737.48              | Build a new North Delta – Graceton 230 kV line by rebuilding 6.07 miles of the existing Cooper – Graceton 230 kV line to double circuit  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%)  | PECO Energy Company   |
| b3737.49              | Bring the Cooper – Graceton 230 kV line “in and out” of North Delta by constructing a new double-circuit North Delta – Graceton 230 kV (0.3 miles) and a new North Delta – Cooper 230 kV (0.4 miles) cut-in lines      | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%)  | PECO Energy Company   |

<sup>+</sup> b3737.47 is an Incremental Multi-Driver Project that includes both a reliability driver and a public policy driver. Accordingly, b3737.47 is included on both Tariff, Schedule 12–Appendix A, section 28 and Tariff, Schedule 12–Appendix C, section 1.

| <b>Identifier</b> | <b>Description</b>   | <b>Responsible Customers<br/>(percentage share)</b>       | <b>Transmission<br/>Owner</b>          |
|-------------------|--|---|--|
| b3737.50          | Bring the Peach Bottom – Delta Power Plant 500 kV line “in and out” of North Delta by constructing a new Peach Bottom – North Delta 500 kV (0.3 miles) cut-in and cut-out lines  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | PECO Energy Company                    |
| b3737.51          | Replace four 63 kA circuit breakers "205," "235," "225" and "255" at Peach Bottom 500 kV with 80 kA  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | PECO Energy Company                    |
| b3737.52          | Replace one 63 kA circuit breaker "B4" at Conastone 230 kV with 80 kA  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Baltimore Gas and Electric Company     |
| b3737.53          | Remove the existing E83 115 kV line (not in-service) to accommodate the new 500 kV/230 kV lines (approximately 7.7 miles)  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company   |
| b3737.54          | Remove the existing H2008 Larrabee – Smithburg No. 2 230 kV line to accommodate the new 500 kV/230 kV lines  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company   |
| b3737.55          | Middlesex substation 230 kV – Replace the 2000A circuit switcher at Middlesex switch point for the Lake Nelson I1023 230 kV exit   | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company   |
| b3737.56          | Build a new North Delta – Graceton 230 kV line by rebuilding 6.26 miles of the existing Cooper – Graceton 230 kV line to double circuit. Cooper-Graceton is jointly owned by PECO and BGE. This subproject is for BGE's portion of the line rebuild, which is 2.16 miles | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Baltimore Gas and Electric Company     |
| b3737.59          | Windsor to Clarksville subproject: Upgrade terminal equipment at Windsor 230 kV station  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Jersey Central Power & Light Company   |
| b3737.60          | Perform a Pre-build Infrastructure evaluation study in alignment with the NJBPU Solicitation Guidance Document requirements  | AEC (14.36%) / JCPL (31.31%) / PSEG (52.23%) / RE (2.10%) | Mid-Atlantic Offshore Development, LLC |

# Attachment B

PJM Open Access Transmission Tariff  
Schedule 12-Appendix,  
Schedule 12-Appendix A and  
Schedule 12-Appendix C

Previously Accepted Redlines Incorporated

(Identified by Additional Cover Pages)

PJM Open Access Transmission Tariff  
Schedule 12-Appendix  
Section 14 – Monongahela Power Co.

Version 29.0.0  
Effective January 1, 2024  
(Accepted in Docket No. ER24-284-000)

**SCHEDULE 12 – APPENDIX**

**(14) Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power**

| Required Transmission Enhancements                                   | Annual Revenue Requirement  | Responsible Customer(s)  |
|--|---|--|
| b0216<br>Install -100/+525 MVAR dynamic reactive device at Black Oak | As specified under the procedures detailed in Attachment H-18B, Section 1.b | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%) |
|  |   | <b>DFAX Allocation:</b><br>APS (30.46%) / BGE (10.86%) / Dominion (42.56%) / PEPCO (16.12%)  |
| b0218<br>Install third Wylie Ridge 500/345 kV transformer            | As specified under the procedures detailed in Attachment H-18B, Section 1.b | AEC (11.83%) / DPL (19.40%) / Dominion (13.81%) / JCPL (15.56%) / PECO (39.40%)  |
| b0220<br>Upgrade coolers on Wylie Ridge 500/345 kV #7                |   | AEC (11.83%) / DPL (19.40%) / Dominion (13.81%) / JCPL (15.56%) / PECO (39.40%)  |
| b0229<br>Install fourth Bedington 500/138 kV                         |   | APS (50.98%) / BGE (13.42%) / DPL (2.03%) / Dominion (14.50%) / ME (1.43%) / PEPCO (17.64%)  |
| b0230<br>Install fourth Meadowbrook 500/138 kV                       | As specified under the procedures detailed in Attachment H-18B, Section 1.b | APS (79.16%) / BGE (3.61%) / DPL (0.86%) / Dominion (11.75%) / ME (0.67%) / PEPCO (3.95%)  |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements  | Annual Revenue Requirement  | Responsible Customer(s)                           |
|---|---|---|
| b0238<br>Reconductor Doubs – Dickerson and Doubs – Aqueduct 1200 MVA  | As specified under the procedures detailed in Attachment H-18B, Section 1.b | BGE (16.66%) / Dominion (33.66%) / PEPCO (49.68%) |
| b0240<br>Open the Black Oak #3 500/138 kV transformer for the loss of Hatfield – Back Oak 500 kV line   |   | APS (100%)  |
| b0245<br>Replacement of the existing 954 ACSR conductor on the Bedington – Nipetown 138 kV line with high temperature/low sag conductor       |   | APS (100%)  |
| b0246<br>Rebuild of the Double Tollgate – Old Chapel 138 kV line with 954 ACSR conductor  | As specified under the procedures detailed in Attachment H-18B, Section 1.b | APS (100%)  |
| b0273<br>Open both North Shenandoah #3 transformer and Strasburg – Edinburgh 138 kV line for the loss of Mount Storm – Meadowbrook 572 500 kV |   | APS (100%)  |
| b0322<br>Convert Lime Kiln substation to 230 kV operation   |   | APS (100%)  |
| b0323<br>Replace the North Shenandoah 138/115 kV transformer  | As specified under the procedures detailed in Attachment H-18B, Section 1.b | APS (100%)  |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                       | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0328.2                            | Build new Meadow Brook – Loudoun 500 kV circuit (20 of 50 miles) | As specified under the procedures detailed in Attachment H-18B, Section 1.b  |
|                                    |  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (2.49%) / BGE (7.42%) / Dominion (78.37%) / PEPCO (11.72%)</p> |
| b0343                              | Replace Doubs 500/230 kV transformer #2                          | As specified under the procedures detailed in Attachment H-18B, Section 1.b  |
| b0344                              | Replace Doubs 500/230 kV transformer #3                          | As specified under the procedures detailed in Attachment H-18B, Section 1.b  |
| b0345                              | Replace Doubs 500/230 kV transformer #4                          | As specified under the procedures detailed in Attachment H-18B, Section 1.b  |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                        | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.1                            | Build new Mt. Storm – 502 Junction 500 kV circuit | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</p> |
| b0347.2                            | Build new Mt. Storm – Meadow Brook 500 kV circuit | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p>  |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement             | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0347.4                            | Upgrade Meadow Brook 500 kV substation | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.5                            | Replace Harrison 500 kV breaker HL-3      | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</p> |
| b0347.6                            | Upgrade (per ABB inspection) breaker HL-6 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</p> |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.7                            | Upgrade (per ABB inspection) breaker HL-7 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</p> |
| b0347.8                            | Upgrade (per ABB inspection) breaker HL-8 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</p> |

\*Neptune Regional Transmission System, LLC

Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)

| Required Transmission Enhancements | Annual Revenue Requirement                 | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0347.9                            | Upgrade (per ABB inspection) breaker HL-10 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

~~Required Transmission Enhancements — Annual Revenue Requirement — Responsible Customer(s)~~

|          |   |  |   |
|----------|---|--|---|
| b0347.11 | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-3 |  | <p><b>Load Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> |
|          |   |  | <p><b>DFAX Allocation:</b><br/> APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</p>  |
| b0347.12 | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-4 |  | <p><b>Load Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> |
|          |   |  | <p><b>DFAX Allocation:</b><br/> APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</p>  |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

~~Required Transmission Enhancements — Annual Revenue Requirement — Responsible Customer(s)~~

|          |   |  |   |
|----------|---|--|---|
| b0347.13 | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-6 |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> |
|          |   |  | <p><b>DFAX Allocation:</b><br/> APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</p>  |
| b0347.14 | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-7 |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> |
|          |   |  | <p><b>DFAX Allocation:</b><br/> APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</p>  |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

~~Required Transmission Enhancements — Annual Revenue Requirement — Responsible Customer(s)~~

|                 |  |  |   |
|-----------------|--|--|---|
| <p>b0347.15</p> | <p>Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-9</p> |  | <p><b>Load Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> |
|                 |  |  | <p><b>DFAX Allocation:</b><br/> APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</p>  |
| <p>b0347.16</p> | <p>Upgrade (per ABB inspection) Harrison 500 kV breaker 'HL-3'</p> |  | <p><b>Load Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> |
|                 |  |  | <p><b>DFAX Allocation:</b><br/> APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</p>  |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.17                           | Replace Meadow Brook 138 kV breaker 'MD-10' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |
| b0347.18                           | Replace Meadow Brook 138 kV breaker 'MD-11' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.19                           | Replace Meadow Brook 138 kV breaker 'MD-12' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |
| b0347.20                           | Replace Meadow Brook 138 kV breaker 'MD-13' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.21                           | Replace Meadow Brook 138 kV breaker 'MD-14' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |
| b0347.22                           | Replace Meadow Brook 138 kV breaker 'MD-15' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.23                           | Replace Meadow Brook 138 kV breaker 'MD-16' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |
| b0347.24                           | Replace Meadow Brook 138 kV breaker 'MD-17' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                        | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.25                           | Replace Meadow Brook 138 kV breaker 'MD-18'       | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |
| b0347.26                           | Replace Meadow Brook 138 kV breaker 'MD-22#1 CAP' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                 | Responsible Customer(s)   |
|------------------------------------|--|---|
| b0347.27                           | Replace Meadow Brook 138 kV breaker 'MD-4' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |
| b0347.28                           | Replace Meadow Brook 138 kV breaker 'MD-5' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.29                           | Replace Meadowbrook 138 kV breaker 'MD-6' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |
| b0347.30                           | Replace Meadowbrook 138 kV breaker 'MD-7' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.31                           | Replace Meadowbrook 138 kV breaker 'MD-8' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |
| b0347.32                           | Replace Meadowbrook 138 kV breaker 'MD-9' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                       | Responsible Customer(s)   |
|------------------------------------|--|---|
| b0347.33                           | Replace Meadow Brook 138 kV breaker 'MD-1'                       | APS (100%)  |
| b0347.34                           | Replace Meadow Brook 138 kV breaker 'MD-2'                       | APS (100%)  |
| b0348                              | Upgrade Stonewall – Inwood 138 kV with 954 ACSR conductor        | APS (100%)  |
| b0373                              | Convert Doubs – Monocacy 138 kV facilities to 230 kV operation   | AEC (1.82%) / APS (76.84%) / DPL (2.64%) / JCPL (4.53%) / ME (9.15%) / NEPTUNE* (0.42%) / PPL (4.60%)   |
| b0393                              | Replace terminal equipment at Harrison 500 kV and Belmont 500 kV | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPSCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%) |
|                                    |  | <b>DFAX Allocation:</b><br>APS (1.47%) / Dayton (0.26%) / DEOK (0.44%) / DL (9.95%) / Dominion (87.75%) / EKPC (0.13%)  |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                 | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b0407.1                            | Replace Marlowe 138 kV breaker “#1 transf” | APS (100%)              |
| b0407.2                            | Replace Marlowe 138 kV breaker “MBO”       | APS (100%)              |
| b0407.3                            | Replace Marlowe 138 kV breaker “BMA”       | APS (100%)              |
| b0407.4                            | Replace Marlowe 138 kV breaker “BMR”       | APS (100%)              |
| b0407.5                            | Replace Marlowe 138 kV breaker “WC-1”      | APS (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement                       | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b0407.6                            | Replace Marlowe 138 kV breaker "R11"             | APS (100%)              |
| b0407.7                            | Replace Marlowe 138 kV breaker "W"               | APS (100%)              |
| b0407.8                            | Replace Marlowe 138 kV breaker "138 kV bus tie"  | APS (100%)              |
| b0408.1                            | Replace Trissler 138 kV breaker "Belmont 604"    | APS (100%)              |
| b0408.2                            | Replace Trissler 138 kV breaker "Edgelawn 90"    | APS (100%)              |
| b0409.1                            | Replace Weirton 138 kV breaker "Wylie Ridge 210" | APS (100%)              |
| b0409.2                            | Replace Weirton 138 kV breaker "Wylie Ridge 216" | APS (100%)              |
| b0410                              | Replace Glen Falls 138 kV breaker "McAlpin 30"   | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0419                              | Install a breaker failure auto-restoration scheme at Bedington 500 kV for the failure of the #1 and #2 breakers                            | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (100%)</p> |
| b0420                              | Operating Procedure to open the Black Oak 500/138 kV transformer #3 for the loss of Hatfield – Ronco 500 kV and the Hatfield #3 Generation | APS (100%)   |
| b0445                              | Upgrade substation equipment and reconductor the Tidd – Mahans Lane – Weirton 138 kV circuit with 954 ACSR                                 | APS (100%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |   |
|------------------------------------|---|--|---|
| b0460                              | Raise limiting structures on Albright – Bethelboro 138 kV to raise the rating to 175 MVA normal 214 MVA emergency | APS (100%)   |   |
| b0491                              | Construct an Amos to Welton Spring to WV state line 765 kV circuit (APS equipment)                                | As specified under the procedures detailed in Attachment H-19B | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> |
|                                    |   |  | <p><b>DFAX Allocation:</b><br/>                     AEC (5.01%) / AEP (4.39%) / APS (9.26%) / BGE (4.43%) / DL (0.02%) / DPL (6.91%) / Dominion (10.82%) / JCPL (11.64%) / ME (2.94%) / NEPTUNE* (1.12%) / PECO (14.51%) / PEPCO (6.11%) / PPL (6.39%) / PSEG (15.86%) / RE (0.59%)</p>   |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0492                              | Construct a Welton Spring to Kemptown 765 kV line (APS equipment) | <p>As specified under the procedures detailed in Attachment H-19B</p> <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/> AEC (5.01%) / AEP (4.39%) / APS (9.26%) / BGE (4.43%) / DL (0.02%) / DPL (6.91%) / Dominion (10.82%) / JCPL (11.64%) / ME (2.94%) / NEPTUNE* (1.12%) / PECO (14.51%) / PEPCO (6.11%) / PPL (6.39%) / PSEG (15.86%) / RE (0.59%)</p> |
| b0492.3                            | Replace Eastalco 230 kV breaker D-26                              | APS (100%)  |
| b0492.4                            | Replace Eastalco 230 kV breaker D-28                              | APS (100%)  |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0492.5                            | Replace Eastalco 230 kV breaker D-31   | APS (100%)   |
| b0495                              | Replace existing Kammer 765/500 kV transformer with a new larger transformer | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%) |
|                                    |  | <b>DFAX Allocation:</b><br>AEP (0.13%) / APS (0.13%) / BGE (15.93%) / Dayton (0.04%) / DEOK (0.06%) / Dominion (64.90%) / EKPC (0.02%) / PEPCO (18.79%)  |
| b0533                              | Reconductor the Powell Mountain – Sutton 138 kV line                         | APS (100%)   |
| b0534                              | Install a 28.61 MVAR capacitor on Sutton 138 kV                              | APS (100%)   |
| b0536                              | Replace Doubs circuit breaker DJ1  | APS (100%)   |
| b0537                              | Replace Doubs circuit breaker DJ7  | APS (100%)   |
| b0538                              | Replace Doubs circuit breaker DJ10   | APS (100%)   |
| b0539                              | Replace Doubs circuit breaker DJ11   | APS (100%)   |
| b0540                              | Replace Doubs circuit breaker DJ12   | APS (100%)   |
| b0541                              | Replace Doubs circuit breaker DJ13   | APS (100%)   |
| b0542                              | Replace Doubs circuit breaker DJ20   | APS (100%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                      | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0543                              | Replace Doubs circuit breaker DJ21                              | APS (100%)   |
| b0544                              | Remove instantaneous reclose from Eastalco circuit breaker D-26 | APS (100%)   |
| b0559                              | Install 200 MVAR capacitor at Meadow Brook 500 kV substation    | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / COMED (13.39%) / DAYTON (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / DOMINION (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%) |
|                                    |   | <b>DFAX Allocation:</b><br>APS (22.57%) / BGE (7.27%) / DOMINION (56.77%) / PEPCO (13.39%)   |
| b0560                              | Install 250 MVAR capacitor at Kemptown 500 kV substation        | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%) |
|                                    |   | <b>DFAX Allocation:</b><br>AEC (5.01%) / AEP (4.39%) / APS (9.26%) / BGE (4.43%) / DL (0.02%) / DPL (6.91%) / Dominion (10.82%) / JCPL (11.64%) / ME (2.94%) / NEPTUNE* (1.12%) / PECO (14.51%) / PEPCO (6.11%) / PPL (6.39%) / PSEG (15.86%) / RE (0.59%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0572.1                            | Reconductor Albright –<br>Mettiki – Williams –<br>Parsons – Loughs Lane<br>138 kV with 954 ACSR | APS (100%)  |
| b0572.2                            | Reconductor Albright –<br>Mettiki – Williams –<br>Parsons – Loughs Lane<br>138 kV with 954 ACSR | APS (100%)  |
| b0573                              | Reconfigure circuits in<br>Butler – Cabot 138 kV<br>area  | APS (100%)  |
| b0577                              | Replace Fort Martin 500<br>kV breaker FL-1  | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (13.68%) /<br>APS (5.76%) / ATSI (8.04%) /<br>BGE (4.11%) / ComEd (13.39%) /<br>Dayton (2.12%) / DEOK (3.25%) /<br>DL (1.71%) / DPL (2.60%) /<br>Dominion (13.32%) / EKPC<br>(1.89%) / JCPL (3.86%) / ME<br>(1.90%) / NEPTUNE* (0.42%) /<br>OVEC (0.08%) / PECO (5.40%) /<br>PENELEC (1.78%) / PEPCO<br>(3.67%) / PPL (4.72%) / PSEG<br>(6.39%) / RE (0.26%) |
|                                    |   | <b>DFAX Allocation:</b><br>APS (100%)   |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                             | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0588                              | Install a 40.8 MVAR 138 kV capacitor at Grassy Falls   | APS (100%)   |
| b0589                              | Replace five 138 kV breakers at Cecil                  | APS (100%)   |
| b0591                              | Install a 25.2 MVAR capacitor at Seneca Caverns 138 kV | APS (100%)   |
| b0674                              | Construct new Osage – Whiteley 138 kV circuit          | APS (97.68%) / DL (0.96%) / PENELEC (1.09%) / ECP** (0.01%) / PSEG (0.25%) / RE (0.01%)  |
| b0674.1                            | Replace the Osage 138 kV breaker ‘CollinsF126’         | APS (100%)   |
| b0675.1                            | Convert Monocacy - Walkersville 138 kV to 230 kV       | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.2                            | Convert Walkersville - Catoctin 138 kV to 230 kV       | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |

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**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0675.3                            | Convert Ringgold - Catoctin 138 kV to 230 kV                 | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.4                            | Convert Catoctin - Carroll 138 kV to 230 kV                  | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.5                            | Convert portion of Ringgold Substation from 138 kV to 230 kV | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.6                            | Convert Catoctin Substation from 138 kV to 230 kV            | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.7                            | Convert portion of Carroll Substation from 138 kV to 230 kV  | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.8                            | Convert Monocacy Substation from 138 kV to 230 kV            | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |

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**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                              | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0675.9                            | Convert Walkersville Substation from 138 kV to 230 kV   | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)     |
| b0676.1                            | Reconductor Doubs - Lime Kiln (#207) 230 kV             | AEC (0.64%) / APS (86.70%) / DPL (0.53%) / JCPL (1.93%) / ME (4.04%) / NEPTUNE* (0.18%) / PECO (1.93%) / PENELEC (0.93%) / PSEG (2.92%) / RE (0.12%) / ECP** (0.08%) |
| b0676.2                            | Reconductor Doubs - Lime Kiln (#231) 230 kV             | AEC (0.64%) / APS (86.70%) / DPL (0.53%) / JCPL (1.93%) / ME (4.04%) / NEPTUNE* (0.18%) / PECO (1.93%) / PENELEC (0.93%) / PSEG (2.92%) / RE (0.12%) / ECP** (0.08%) |
| b0677                              | Reconductor Double Toll Gate – Riverton with 954 ACSR   | APS (100%)   |
| b0678                              | Reconductor Glen Falls - Oak Mound 138 kV with 954 ACSR | APS (100%)   |
| b0679                              | Reconductor Grand Point – Letterkenny with 954 ACSR     | APS (100%)   |
| b0680                              | Reconductor Greene – Letterkenny with 954 ACSR          | APS (100%)   |

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**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                             | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0685                              | Replace Ringgold 230/138 kV #3 with larger transformer | APS (71.93%) / JCPL (4.17%) / ME (6.79%) / NEPTUNE* (0.38%) / PECO (4.05%) / PENELEC (5.88%) / ECP** (0.18%) / PSEG (6.37%) / RE (0.25%) |
| b0797                              | Advance n0321 (Replace Doubs Circuit Breaker DJ2)      | APS (100%)   |
| b0798                              | Advance n0322 (Replace Doubs Circuit Breaker DJ3)      | APS (100%)   |
| b0799                              | Advance n0323 (Replace Doubs Circuit Breaker DJ6)      | APS (100%)   |
| b0800                              | Advance n0327 (Replace Doubs Circuit Breaker DJ16)     | APS (100%)   |
| b0941                              | Replace Opequon 138 kV breaker 'BUSTIE'                | APS (100%)   |
| b0956                              | Replace Pruntytown 138 kV breaker 'P-9'                | APS (100%)   |
| b0957                              | Replace Pruntytown 138 kV breaker 'P-12'               | APS (100%)   |
| b0958                              | Replace Pruntytown 138 kV breaker 'P-15'               | APS (100%)   |

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~~Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)~~

~~Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)~~

|                  |   |  |                       |
|------------------|---|--|-----------------------|
| <del>b0956</del> | <del>Replace Pruntytown 138 kV breaker 'P-9'</del>  |  | <del>APS (100%)</del> |
| <del>b0957</del> | <del>Replace Pruntytown 138 kV breaker 'P-12'</del> |  | <del>APS (100%)</del> |
| <del>b0958</del> | <del>Replace Pruntytown 138 kV breaker 'P-15'</del> |  | <del>APS (100%)</del> |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                        | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b0960                              | Replace Pruntytown 138 kV breaker 'P-2'           | APS (100%)              |
| b0961                              | Replace Pruntytown 138 kV breaker 'P-5'           | APS (100%)              |
| b0964                              | Replace Pruntytown 138 kV breaker 'P-11'          | APS (100%)              |
| b0966                              | Replace Pruntytown 138 kV breaker 'P-8'           | APS (100%)              |
| b0967                              | Replace Pruntytown 138 kV breaker 'P-14'          | APS (100%)              |
| b0968                              | Replace Ringgold 138 kV breaker '#3 XFMR BANK'    | APS (100%)              |
| b0970                              | Replace Rivesville 138 kV breaker '#8 XFMR BANK'  | APS (100%)              |
| b0972                              | Replace Belmont 138 kV breaker 'B-16'             | APS (100%)              |
| b0977                              | Replace Belmont 138 kV breaker 'B-17'             | APS (100%)              |
| b0984                              | Replace Rivesville 138 kV breaker '#10 XFMR BANK' | APS (100%)              |
| b0985                              | Replace Belmont 138 kV breaker 'B-14'             | APS (100%)              |

~~Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)~~

~~Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)~~

|                  |  |  |                       |
|------------------|--|--|-----------------------|
| <del>b0972</del> | <del>Replace Belmont 138 kV breaker 'B-16'</del>             |  | <del>APS (100%)</del> |
| <del>b0977</del> | <del>Replace Belmont 138 kV breaker 'B-17'</del>             |  | <del>APS (100%)</del> |
| <del>b0984</del> | <del>Replace Rivesville 138 kV breaker '#10 XFMR BANK'</del> |  | <del>APS (100%)</del> |
| <del>b0985</del> | <del>Replace Belmont 138 kV breaker 'B-14'</del>             |  | <del>APS (100%)</del> |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---------------------------|
| b0989                              | Replace Edgelawn 138 kV breaker 'GOFF RUN #632'   | APS (100%)                |
| b0991                              | Change reclosing on Belmont 138 kV breaker 'B-7'  | APS (100%)                |
| b0992                              | Change reclosing on Belmont 138 kV breaker 'B-12'   | APS (100%)                |
| b0993                              | Change reclosing on Belmont 138 kV breaker 'B-9'  | APS (100%)                |
| b0994                              | Change reclosing on Belmont 138 kV breaker 'B-19'   | APS (100%)                |
| b0995                              | Change reclosing on Belmont 138 kV breaker 'B-21'   | APS (100%)                |
| b0996                              | Change reclosing on Willow Island 138 kV breaker 'FAIRVIEW #84'   | APS (100%)                |
| b0999                              | Replace Redbud 138 kV breaker 'BUS TIE'   | APS (100%)                |
| b1022.1                            | Reconfigure the Peters to Bethel Park 138 kV line and Elrama to Woodville 138 kV line to create a 138 kV path from Woodville to Peters and a 138 kV path from Elrama to Bethel Park | APS (96.98%) / DL (3.02%) |
| b1023.3                            | Construct a new 502 Junction - Osage 138 kV line  | APS (100%)                |

~~Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)~~

~~Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)~~

|                    |  |  |                                      |
|--------------------|--|--|--------------------------------------|
| <del>b0999</del>   | <del>Replace Redbud 138 kV breaker 'BUS TIE'</del>   |  | <del>APS (100%)</del>                |
| <del>b1022.1</del> | <del>Reconfigure the Peters to Bethel Park 138 kV line and Elrama to Woodville 138 kV line to create a 138 kV path from Woodville to Peters and a 138 kV path from Elrama to Bethel Park</del> |  | <del>APS (96.98%) / DL (3.02%)</del> |
| <del>b1023.3</del> | <del>Construct a new 502 Junction—Osage 138 kV line</del>  |  | <del>APS (100%)</del>                |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1023.4                            | Construct Braddock 138 kV breaker station that connects the Charleroi - Gordon 138 kV line, Washington - Franklin 138 kV line and the Washington - Vanceville 138 kV line including a 66 MVAR capacitor | APS (100%)              |
| b1028                              | Raise three structures on the Osage - Collins Ferry 138 kV line to increase the line rating   | APS (100%)              |
| b1128                              | Reconductor the Edgewater – Vasco Tap; Edgewater – Loyalhanna 138 kV lines with 954 ACSR  | APS (100%)              |
| b1129                              | Reconductor the East Waynesboro – Ringgold 138 kV line with 954 ACSR  | APS (100%)              |
| b1131                              | Upgrade Double Tollgate – Meadowbrook MDT Terminal Equipment  | APS (100%)              |
| b1132                              | Upgrade Double Tollgate-Meadowbrook MBG terminal equipment  | APS (100%)              |
| b1133                              | Upgrade terminal equipment at Springdale  | APS (100%)              |
| b1135                              | Reconductor the Bartonville – Meadowbrook 138 kV line with high temperature conductor   | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s)   |
|--|----------------------------|---|
| b1137<br>Reconductor the Eastgate – Luxor 138 kV;<br>Eastgate – Sony 138 kV line with 954 ACSR                 |                            | APS (78.59%) / PENELEC (14.08%) / ECP** (0.23%) / PSEG (6.83%) / RE (0.27%) |
| b1138<br>Reconductor the King Farm – Sony 138 kV line with 954 ACSR  |                            | APS (100%)  |
| b1139<br>Reconductor the Yukon – Waltz Mills 138 kV line with high temperature conductor                       |                            | APS (100%)  |
| b1140<br>Reconductor the Bracken Junction – Luxor 138 kV line with 954 ACSR                                    |                            | APS (100%)  |
| b1141<br>Reconductor the Sewickley – Waltz Mills Tap 138 kV line with high temperature conductor               |                            | APS (100%)  |
| b1142<br>Reconductor the Bartonsville – Stephenson 138 kV;<br>Stonewall – Stephenson 138 kV line with 954 ACSR |                            | APS (100%)  |
| b1143<br>Reconductor the Youngwood – Yukon 138 kV line with high temperature conductor                         |                            | APS (89.92%) / PENELEC (10.08%)   |
| b1144<br>Reconductor the Bull Creek Junction – Cabot 138 kV line with high temperature conductor               |                            | APS (100%)  |

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**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1145                              | Reconductor the Lawson Junction – Cabot 138 kV line with high temperature conductor | APS (100%)              |
| b1146                              | Replace Layton - Smithton #61 138 kV line structures to increase line rating        | APS (100%)              |
| b1147                              | Replace Smith – Yukon 138 kV line structures to increase line rating                | APS (100%)              |
| b1148                              | Reconductor the Loyalhanna – Luxor 138 kV line with 954 ACSR                        | APS (100%)              |
| b1149                              | Reconductor the Luxor – Stony Springs Junction 138 kV line with 954 ACSR            | APS (100%)              |
| b1150                              | Upgrade terminal equipment at Social Hall   | APS (100%)              |
| b1151                              | Reconductor the Greenwood – Redbud 138 kV line with 954 ACSR                        | APS (100%)              |
| b1152                              | Reconductor Grand Point – South Chambersburg  | APS (100%)              |
| b1162                              | Replace Double Toll Gate 138 kV breaker ‘DRB-2’                                     | APS (100%)              |
| b1163                              | Replace Double Toll Gate 138 kV breaker ‘DT 138 kV OCB’                             | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company,~~ all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b1166                              | Replace Wylie Ridge 138 kV breaker 'W-9'   | APS (100%)  |
| b1167                              | Replace Reid 138 kV breaker 'RI-2'   | APS (100%)  |
| b1171.1                            | Install the second Black Oak 500/138 kV transformer, two 138 kV breaker, and related substation work | BGE (20.76%) / DPL (3.14%) / Dominion (39.55%) / ME (2.71%) / PECO (3.36%) / PEPCO (30.48%)   |
| b1171.3                            | Install six 500 kV breakers and remove BOL1 500 kV breaker at Black Oak                              | AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%) |
| b1200                              | Reconductor Double Toll Gate – Greenwood 138 kV with 954 ACSR conductor                              | APS (100%)  |
| b1221.1                            | Convert Carbon Center from 138 kV to a 230 kV ring bus   | APS (100%)  |
| b1221.2                            | Construct Bear Run 230 kV substation with 230/138 kV transformer                                     | APS (100%)  |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b1221.3                            | Loop Carbon Center Junction – Williamette line into Bear Run  | APS (100%)   |
| b1221.4                            | Carbon Center – Carbon Center Junction & Carbon Center Junction – Bear Run conversion from 138 kV to 230 kV                                   | APS (100%)   |
| b1230                              | Reconductor Willow-Eureka & Eureka-St Mary 138 kV lines   | APS (100%)   |
| b1232                              | Reconductor Nipetown – Reid 138 kV with 1033 ACCR   | AEC (1.40%) / APS (75.74%) / DPL (1.92%) / JCPL (2.92%) / ME (6.10%) / NEPTUNE* (0.27%) / PECO (4.40%) / PENELEC (3.26%) / PPL (3.99%) |
| b1233.1                            | Upgrade terminal equipment at Washington  | APS (100%)   |
| b1234                              | Replace structures between Ridgeway and Paper city  | APS (100%)   |
| b1235                              | Reconductor the Albright – Black Oak AFA 138 kV line with 795 ACSS/TW   | APS (30.25%) / BGE (16.10%) / Dominion (30.51%) / PEPCO (23.14%)   |
| b1237                              | Upgrade terminal equipment at Albright, replace bus and line side breaker disconnects and leads, replace breaker risers, upgrade RTU and line | APS (100%)   |
| b1238                              | Install a 138 kV 44 MVAR capacitor at Edgelawn substation   | APS (100%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)                    |
|------------------------------------|--|--|
| b1239                              | Install a 138 kV 44 MVAR capacitor at Ridgeway substation                              | APS (100%)                                 |
| b1240                              | Install a 138 kV 44 MVAR capacitor at Elko Substation                                  | APS (100%)                                 |
| b1241                              | Upgrade terminal equipment at Washington substation on the GE Plastics/DuPont terminal | APS (100%)                                 |
| b1242                              | Replace structures between Collins Ferry and West Run                                  | APS (100%)                                 |
| b1384                              | Reconductor approximately 2.17 miles of Bedington – Shepherdstown 138 kV with 954 ACSR | APS (100%)                                 |
| b1385                              | Reconductor Halfway – Paramount 138 kV with 1033 ACCR                                  | APS (100%)                                 |
| b1386                              | Reconductor Double Tollgate – Meadow Brook 138 kV ckt 2 with 1033 ACCR                 | APS (93.33%) / BGE (3.39%) / PEPCO (3.28%) |
| b1387                              | Reconductor Double Tollgate – Meadow Brook 138 kV                                      | APS (93.33%) / BGE (3.39%) / PEPCO (3.28%) |
| b1388                              | Reconductor Feagans Mill – Millville 138 kV with 954 ACSR                              | APS (100%)                                 |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)                   |
|------------------------------------|--|---|
| b1389                              | Reconductor Bens Run – St. Mary’s 138 kV with 954 ACSR                                 | AEP (12.40%) / APS (17.80%) / DL (69.80%) |
| b1390                              | Replace Bus Tie Breaker at Opequon   | APS (100%)                                |
| b1391                              | Replace Line Trap at Gore  | APS (100%)                                |
| b1392                              | Replace structure on Belmont – Trissler 138 kV line                                    | APS (100%)                                |
| b1393                              | Replace structures Kingwood – Pruntytown 138 kV line                                   | APS (100%)                                |
| b1395                              | Upgrade Terminal Equipment at Kittanning   | APS (100%)                                |
| b1401                              | Change reclosing on Pruntytown 138 kV breaker ‘P-16’ to 1 shot at 15 seconds           | APS (100%)                                |
| b1402                              | Change reclosing on Rivesville 138 kV breaker ‘Pruntytown #34’ to 1 shot at 15 seconds | APS (100%)                                |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b1408                              | Replace the Weirton 138 kV breaker 'Tidd 224' with a 40 kA breaker | APS (100%)   |
| b1507.2                            | Terminal Equipment upgrade at Doubs substation                     | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (16.11%) / BGE (13.32%) / Dominion (55.42%) / PEPCO (15.15%)</p> |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b1507.3                            | Mt. Storm – Doubs transmission line rebuild in Maryland – Total line mileage for APS is 2.71 miles | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (16.11%) / BGE (13.32%) / Dominion (55.42%) / PEPCO (15.15%)</p> |
| b1510                              | Install 59.4 MVAR capacitor at Waverly   | APS (100%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b1803                              | Build a 300 MVAR Switched Shunt at Doubs 500 kV and increase (~50 MVAR) in size the existing Switched Shunt at Doubs 500 kV | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (16.11%) / BGE (13.32%) / Dominion (55.42%) / PEPCO (15.15%)</p> |
| b1804                              | Install a new 600 MVAR SVC at Meadowbrook 500 kV  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (22.57%) / BGE (7.27%) / Dominion (56.77%) / PEPCO (13.39%)</p>  |
| b1816.1                            | Replace relaying at the Mt. Airy substation on the Carroll - Mt. Airy 230 kV line   | APS (100%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements  | Annual Revenue Requirement | Responsible Customer(s) |
|---|----------------------------|-------------------------|
| b1816.2<br>Adjust the control settings of all existing capacitors at Mt Airy 34.5 kV, Monocacy 138 kV, Ringgold 138 kV served by Potomac Edison's Eastern 230 kV network to ensure that all units will be on during the identified N-1-1 contingencies  |                            | APS (100%)              |
| b1816.3<br>Replace existing unidirectional LTC controller on the No. 4, 230/138 kV transformer at Carroll substation with a bidirectional unit  |                            | APS (100%)              |
| b1816.4<br>Isolate and bypass the 138 kV reactor at Germantown Substation   |                            | APS (100%)              |
| b1816.6<br>Replace 336.4 ACSR conductor on the Catoctin - Carroll 138 kV line using 556.5 ACSR (26/7) or equivalent on existing structures (12.7 miles), 800 A wave traps at Carroll and Catoctin with 1200 A units, and 556.5 ACSR SCCIR (Sub-conductor) line risers and bus traps with 795 ACSR or equivalent |                            | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1822                              | Replace the 1200 A wave trap, line risers, breaker risers with 1600 A capacity terminal equipment at Reid 138 kV SS | APS (100%)              |
| b1823                              | Replace the 800 A wave trap with a 1200 A wave trap at Millville 138 kV substation                                  | APS (100%)              |
| b1824                              | Reconductor Grant Point - Guilford 138 kV line approximately 8 miles of 556 ACSR with 795 ACSR                      | APS (100%)              |
| b1826                              | Change the CT ratio at Double Toll Gate 138 kV SS on MDT line   | APS (100%)              |
| b1827                              | Change the CT ratio at Double Toll Gate 138 kV SS on MBG line   | APS (100%)              |
| b1828.1                            | Reconductor the Bartonville – Stephenson 3.03 mile 138 kV line of 556 ACSR with 795 ACSR                            | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1828.2                            | Reconductor the Stonewall – Stephenson 2.08 mile 138 kV line of 556 ACSR with 795 ACSR  | APS (100%)              |
| b1829                              | Replace the existing 138 kV 556.5 ACSR substation conductor risers with 954 ACSR at the Redbud 138 kV substation, including but not limited to the line side disconnect leads                               | APS (100%)              |
| b1830                              | Replace 1200 A wave trap and 1024 ACAR breaker risers at Halfway 138 kV substation, and replace 1024 ACAR breaker risers at Paramount 138 kV substation   | APS (100%)              |
| b1832                              | Replace the 1200 A line side and bus side disconnect switches with 1600 A switches, replace bus side, line side, and disconnect leads at Lime Kiln SS on the Doubs - Lime Kiln 1 (207) 230 kV line terminal | APS (100%)              |
| b1833                              | Replace the 1200 A line side and bus side disconnect switches with 1600 A switches, replace bus side, line side, and disconnect leads at Lime Kiln SS on the Doubs - Lime Kiln 2 (231) 230 kV line terminal | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b1835                              | Reconductor 14.3 miles of 556 ACSR with 795 ACSR from Old Chapel to Millville 138 kV and upgrade line risers at Old Chapel 138 kV and Millville 138 kV and replace 1200 A wave trap at Millville 138 kV | APS (37.68%) / Dominion (34.46%) / PEPCO (13.69%) / BGE (11.45%) / ME (2.01%) / PENELEC (0.53%) / DL (0.18%) |
| b1836                              | Replace 1200 A wave trap with 1600 A wave trap at Reid 138 kV SS  | APS (100%)   |
| b1837                              | Replace 750 CU breaker risers with 795 ACSR at Marlowe 138 kV and replace 1200 A wave traps with 1600 A wave traps at Marlowe 138 kV and Bedington 138 kV   | APS (100%)   |
| b1838                              | Replace the 1200 A Bedington 138 kV line air switch and the 1200 A 138 kV bus tie air switch at Nipetown 138 kV with 1600 A switches  | APS (100%)   |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b1840                              | Construct a 138 kV line between Buckhannon and Weston 138 kV substations   | APS (100%)              |
| b1902                              | Replace line trap at Stonewall on the Stephenson 138 kV line terminal  | APS (100%)              |
| b1942                              | Change the CT ratio at Millville to improve the Millville – Old Chapel 138 kV line ratings                           | APS (100%)              |
| b1987                              | Reconductor the Osage-Collins Ferry 138 kV line with 795 ACSS. Upgrade terminal equipment at Osage and Collins Ferry | APS (100%)              |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1988                              | Raise structures between Lake Lynn and West Run to eliminate the clearance de-rates on the West Run – Lake Lynn 138 kV line         | APS (100%)              |
| b1989                              | Raise structures between Collins Ferry and West Run to eliminate the clearance de-rates on the Collins Ferry - West Run 138 kV line | APS (100%)              |
| b2095                              | Replace Weirt 138 kV breaker 'S-TORONTO226' with 63 kA rated breaker  | APS (100%)              |
| b2096                              | Revise the reclosing of Weirt 138 kV breaker '2&5 XFMR'   | APS (100%)              |
| b2097                              | Replace Ridgeley 138 kV breaker '#2 XFMR OCB'   | APS (100%)              |
| b2098                              | Revise the reclosing of Ridgeley 138 kV breaker 'AR3' with 40 kA rated breaker  | APS (100%)              |
| b2099                              | Revise the reclosing of Ridgeley 138 kV breaker 'RC1'   | APS (100%)              |
| b2100                              | Replace Ridgeley 138 kV breaker 'WC4' with 40 kA rated breaker  | APS (100%)              |
| b2101                              | Replace Ridgeley 138 kV breaker '1 XFMR OCB' with 40 kA rated breaker   | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2106                              | Replace Wylie Ridge 345 kV breaker 'WK-1' with 63 kA rated breaker             | APS (100%)              |
| b2107                              | Replace Wylie Ridge 345 kV breaker 'WK-2' with 63 kA rated breaker             | APS (100%)              |
| b2108                              | Replace Wylie Ridge 345 kV breaker 'WK-3' with 63 kA rated breaker             | APS (100%)              |
| b2109                              | Replace Wylie Ridge 345 kV breaker 'WK-4' with 63 kA rated breaker             | APS (100%)              |
| b2110                              | Replace Wylie Ridge 345 kV breaker 'WK-6' with 63 kA rated breaker             | APS (100%)              |
| b2111                              | Replace Wylie Ridge 138 kV breaker 'WK-7' with 63 kA rated breaker             | APS (100%)              |
| b2112                              | Replace Wylie Ridge 345 kV breaker 'WK-5'                                      | APS (100%)              |
| b2113                              | Replace Weirton 138 kV breaker 'NO 6 XFMR' with 63 kA rated breaker            | APS (100%)              |
| b2114                              | Replace Armstrong 138 kV breaker 'Bus-Tie' (Status On-Hold pending retirement) | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2124.1                            | Add a new 138 kV line exit   | APS (100%)              |
| b2124.2                            | Construct a 138 kV ring bus and install a 138/69 kV autotransformer  | APS (100%)              |
| b2124.4                            | Construct approximately 5.5 miles of 138 kV line   | APS (100%)              |
| b2165                              | Replace 800A wave trap at Stonewall with a 1200 A wave trap  | APS (100%)              |
| b2166                              | Reconductor the Millville – Sleepy Hollow 138 kV 4.25 miles of 556 ACSR with 795 ACSR, upgrade line risers at Sleepy Hollow, and change 1200 A CT tap at Millville to 800  | APS (100%)              |
| b2168                              | For Grassy Falls 138 kV Capacitor bank adjust turn-on voltage to 1.0 pu with a high limit of 1.04 pu, For Crupperneck and Powell Mountain 138 kV Capacitor Banks adjust turn-on voltage to 1.01 pu with a high limit of 1.035 pu | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2171                              | Replace/Raise structures on the Parsons-William 138 kV line section to eliminate clearance de-rate       | APS (100%)              |
| b2172                              | Replace/Raise structures on the Parsons - Loughs Lane 138 kV line section to eliminate clearance de-rate | APS (100%)              |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix  
Section 14 – Monongahela Power Co.

Version 30.0.0  
Effective January 1, 2024  
(Accepted in Docket No. ER24-786-000)

**SCHEDULE 12 – APPENDIX**

**(14) Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power**

| Required Transmission Enhancements | Annual Revenue Requirement                                  | Responsible Customer(s)   |  |
|------------------------------------|---|---|--|
| b0216                              | Install -100/+525 MVAR dynamic reactive device at Black Oak | As specified under the procedures detailed in Attachment H-18B, Section 1.b | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> |
|                                    |   |   | <p><b>DFAX Allocation:</b><br/>                     APS (<del>30.46</del><u>31.22</u>%) / BGE (<del>10.86</del><u>10.26</u>%) / Dominion (<del>42.56</del><u>45.55</u>%) / PEPCO (<del>16.12</del><u>12.97</u>%)</p>   |
| b0218                              | Install third Wylie Ridge 500/345 kV transformer            | As specified under the procedures detailed in Attachment H-18B, Section 1.b | AEC (11.83%) / DPL (19.40%) / Dominion (13.81%) / JCPL (15.56%) / PECO (39.40%)  |
| b0220                              | Upgrade coolers on Wylie Ridge 500/345 kV #7                |   | AEC (11.83%) / DPL (19.40%) / Dominion (13.81%) / JCPL (15.56%) / PECO (39.40%)  |
| b0229                              | Install fourth Bedington 500/138 kV                         |   | APS (50.98%) / BGE (13.42%) / DPL (2.03%) / Dominion (14.50%) / ME (1.43%) / PEPCO (17.64%)  |

|       |                                       |   |   |
|-------|---------------------------------------|---|---|
| b0230 | Install fourth Meadowbrook 500/138 kV | As specified under the procedures detailed in Attachment H-18B, Section 1.b | APS (79.16%) / BGE (3.61%) / DPL (0.86%) / Dominion (11.75%) / ME (0.67%) / PEPCO (3.95%) |
|-------|---------------------------------------|---|---|

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements  | Annual Revenue Requirement  | Responsible Customer(s)                           |
|---|---|---|
| b0238<br>Reconductor Doubs – Dickerson and Doubs – Aqueduct 1200 MVA  | As specified under the procedures detailed in Attachment H-18B, Section 1.b | BGE (16.66%) / Dominion (33.66%) / PEPCO (49.68%) |
| b0240<br>Open the Black Oak #3 500/138 kV transformer for the loss of Hatfield – Back Oak 500 kV line   |   | APS (100%)  |
| b0245<br>Replacement of the existing 954 ACSR conductor on the Bedington – Nipetown 138 kV line with high temperature/low sag conductor       |   | APS (100%)  |
| b0246<br>Rebuild of the Double Tollgate – Old Chapel 138 kV line with 954 ACSR conductor  | As specified under the procedures detailed in Attachment H-18B, Section 1.b | APS (100%)  |
| b0273<br>Open both North Shenandoah #3 transformer and Strasburg – Edinburgh 138 kV line for the loss of Mount Storm – Meadowbrook 572 500 kV |   | APS (100%)  |
| b0322<br>Convert Lime Kiln substation to 230 kV operation   |   | APS (100%)  |
| b0323<br>Replace the North Shenandoah 138/115 kV transformer  | As specified under the procedures detailed in Attachment H-18B, Section 1.b | APS (100%)  |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                       | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0328.2                            | Build new Meadow Brook – Loudoun 500 kV circuit (20 of 50 miles) | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP<br/> (<del>13.6814.29%</del>) / APS<br/> (<del>5.765.82%</del>) / ATSI (<del>8.047.49%</del>)<br/> / BGE (<del>4.114.01%</del>) / ComEd<br/> (<del>13.3914.06%</del>) / Dayton<br/> (<del>2.122.03%</del>) / DEOK<br/> (<del>3.253.21%</del>) / DL (<del>1.711.59%</del>) /<br/> DPL (<del>2.602.55%</del>) / Dominion<br/> (<del>13.3213.89%</del>) / EKPC<br/> (<del>1.892.35%</del>) / JCPL (<del>3.863.59%</del>)<br/> / ME (<del>1.901.81%</del>) / NEPTUNE*<br/> (0.42%) / OVEC (<del>0.080.06%</del>) /<br/> PECO (<del>5.405.11%</del>) / PENELEC<br/> (<del>1.781.73%</del>) / PEPCO<br/> (<del>3.673.68%</del>) / PPL (<del>4.724.43%</del>) /<br/> PSEG (<del>6.395.99%</del>) / RE<br/> (<del>0.260.24%</del>)</p> <p><b>DFAX Allocation:</b><br/> APS (<del>2.496.50%</del>) / BGE<br/> (<del>7.426.33%</del>) / Dominion<br/> (<del>78.3778.04%</del>) / PEPCO<br/> (<del>11.729.13%</del>)</p> |
| b0343                              | Replace Doubs 500/230 kV transformer #2                          | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p>AEC (1.85%) / BGE (21.49%) /<br/> DPL (3.91%) / Dominion<br/> (28.86%) / ME (2.97%) / PECO<br/> (5.73%) / PEPCO (35.19%)</p>   |
| b0344                              | Replace Doubs 500/230 kV transformer #3                          | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p>AEC (1.86%) / BGE (21.50%) /<br/> DPL (3.91%) / Dominion<br/> (28.82%) / ME (2.97%) / PECO<br/> (5.74%) / PEPCO (35.20%)</p>   |
| b0345                              | Replace Doubs 500/230 kV transformer #4                          | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p>AEC (1.85%) / BGE (21.49%) /<br/> DPL (3.90%) / Dominion<br/> (28.83%) / ME (2.98%) / PECO<br/> (5.75%) / PEPCO (35.20%)</p>   |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                        | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.1                            | Build new Mt. Storm – 502 Junction 500 kV circuit | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP<br/>           (<del>13.6814.29%</del>) / APS<br/>           (<del>5.765.82%</del>) / ATSI (<del>8.047.49%</del>)<br/>           / BGE (<del>4.114.01%</del>) / ComEd<br/>           (<del>13.3914.06%</del>) / Dayton<br/>           (<del>2.122.03%</del>) / DEOK<br/>           (<del>3.253.21%</del>) / DL (<del>1.711.59%</del>) /<br/>           DPL (<del>2.602.55%</del>) / Dominion<br/>           (<del>13.3213.89%</del>) / EKPC<br/>           (<del>1.892.35%</del>) / JCPL (<del>3.863.59%</del>)<br/>           / ME (<del>1.901.81%</del>) / NEPTUNE*<br/>           (0.42%) / OVEC (<del>0.080.06%</del>) /<br/>           PECO (<del>5.405.11%</del>) / PENELEC<br/>           (<del>1.781.73%</del>) / PEPCO<br/>           (<del>3.673.68%</del>) / PPL (<del>4.724.43%</del>) /<br/>           PSEG (<del>6.395.99%</del>) / RE<br/>           (<del>0.260.24%</del>)</p> <p><b>DFAX Allocation:</b><br/>           APS (<del>28.9431.98%</del>) / BGE<br/>           (<del>13.7810.86%</del>) / Dominion<br/>           (<del>32.1839.86%</del>) / PEPCO<br/>           (<del>25.1017.30%</del>)</p> |
| b0347.2                            | Build new Mt. Storm – Meadow Brook 500 kV circuit | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP<br/>           (<del>13.6814.29%</del>) / APS<br/>           (<del>5.765.82%</del>) / ATSI (<del>8.047.49%</del>)<br/>           / BGE (<del>4.114.01%</del>) / ComEd<br/>           (<del>13.3914.06%</del>) / Dayton<br/>           (<del>2.122.03%</del>) / DEOK<br/>           (<del>3.253.21%</del>) / DL (<del>1.711.59%</del>) /<br/>           DPL (<del>2.602.55%</del>) / Dominion<br/>           (<del>13.3213.89%</del>) / EKPC<br/>           (<del>1.892.35%</del>) / JCPL (<del>3.863.59%</del>)<br/>           / ME (<del>1.901.81%</del>) / NEPTUNE*<br/>           (0.42%) / OVEC (<del>0.080.06%</del>) /<br/>           PECO (<del>5.405.11%</del>) / PENELEC<br/>           (<del>1.781.73%</del>) / PEPCO<br/>           (<del>3.673.68%</del>) / PPL (<del>4.724.43%</del>) /<br/>           PSEG (<del>6.395.99%</del>) / RE<br/>           (<del>0.260.24%</del>)</p>   |

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| <b>DFAX Allocation:</b><br>APS ( <del>22.5721.84</del> %) / BGE<br>( <del>7.277.08</del> %) / Dominion<br>( <del>56.7760.14</del> %) / PEPCO<br>( <del>13.3910.94</del> %) |
|--|

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement               | Responsible Customer(s)   |
|------------------------------------|--|---|
| b0347.3                            | Build new 502 Junction 500 kV substation | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP<br/>           (<del>13.6814.29%</del>) / APS<br/>           (<del>5.765.82%</del>) / ATSI (<del>8.047.49%</del>)<br/>           / BGE (<del>4.114.01%</del>) / ComEd<br/>           (<del>13.3914.06%</del>) / Dayton<br/>           (<del>2.122.03%</del>) / DEOK<br/>           (<del>3.253.21%</del>) / DL (<del>1.711.59%</del>) /<br/>           DPL (<del>2.602.55%</del>) / Dominion<br/>           (<del>13.3213.89%</del>) / EKPC<br/>           (<del>1.892.35%</del>) / JCPL (<del>3.863.59%</del>)<br/>           / ME (<del>1.901.81%</del>) / NEPTUNE*<br/>           (0.42%) / OVEC (<del>0.080.06%</del>) /<br/>           PECO (<del>5.405.11%</del>) / PENELEC<br/>           (<del>1.781.73%</del>) / PEPSCO<br/>           (<del>3.673.68%</del>) / PPL (<del>4.724.43%</del>) /<br/>           PSEG (<del>6.395.99%</del>) / RE<br/>           (<del>0.260.24%</del>)</p> <p><b>DFAX Allocation:</b><br/>           APS (<del>28.9431.98%</del>) / BGE<br/>           (<del>13.7810.86%</del>) / Dominion<br/>           (<del>32.1839.86%</del>) / PEPSCO<br/>           (<del>25.1017.30%</del>)</p> |
| b0347.4                            | Upgrade Meadow Brook 500 kV substation   | <p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP<br/>           (<del>13.6814.29%</del>) / APS<br/>           (<del>5.765.82%</del>) / ATSI (<del>8.047.49%</del>)<br/>           / BGE (<del>4.114.01%</del>) / ComEd<br/>           (<del>13.3914.06%</del>) / Dayton<br/>           (<del>2.122.03%</del>) / DEOK<br/>           (<del>3.253.21%</del>) / DL (<del>1.711.59%</del>) /<br/>           DPL (<del>2.602.55%</del>) / Dominion<br/>           (<del>13.3213.89%</del>) / EKPC<br/>           (<del>1.892.35%</del>) / JCPL (<del>3.863.59%</del>)<br/>           / ME (<del>1.901.81%</del>) / NEPTUNE*<br/>           (0.42%) / OVEC (<del>0.080.06%</del>) /<br/>           PECO (<del>5.405.11%</del>) / PENELEC<br/>           (<del>1.781.73%</del>) / PEPSCO<br/>           (<del>3.673.68%</del>) / PPL (<del>4.724.43%</del>) /</p>  |

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|  |  |  | PSEG ( <del>6.395.99%</del> ) / RE<br>( <del>0.260.24%</del> )   |
|  |  |  | <b>DFAX Allocation:</b><br>APS ( <del>22.5721.84%</del> ) / BGE<br>( <del>7.277.08%</del> ) / Dominion<br>( <del>56.7760.14%</del> ) / PEPCO<br>( <del>13.3910.94%</del> ) |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.5                            | Replace Harrison 500 kV breaker HL-3      | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP<br/> (<del>13.6814.29%</del>) / APS<br/> (<del>5.765.82%</del>) / ATSI (<del>8.047.49%</del>)<br/> / BGE (<del>4.114.01%</del>) / ComEd<br/> (<del>13.3914.06%</del>) / Dayton<br/> (<del>2.122.03%</del>) / DEOK<br/> (<del>3.253.21%</del>) / DL (<del>1.711.59%</del>) /<br/> DPL (<del>2.602.55%</del>) / Dominion<br/> (<del>13.3213.89%</del>) / EKPC<br/> (<del>1.892.35%</del>) / JCPL (<del>3.863.59%</del>)<br/> / ME (<del>1.901.81%</del>) / NEPTUNE*<br/> (0.42%) / OVEC (<del>0.080.06%</del>) /<br/> PECO (<del>5.405.11%</del>) / PENELEC<br/> (<del>1.781.73%</del>) / PEPCO<br/> (<del>3.673.68%</del>) / PPL (<del>4.724.43%</del>) /<br/> PSEG (<del>6.395.99%</del>) / RE<br/> (<del>0.260.24%</del>)</p> <p><b>DFAX Allocation:</b><br/> APS (<del>28.9431.98%</del>) / BGE<br/> (<del>13.7810.86%</del>) / Dominion<br/> (<del>32.1839.86%</del>) / PEPCO<br/> (<del>25.1017.30%</del>)</p> |
| b0347.6                            | Upgrade (per ABB inspection) breaker HL-6 | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP<br/> (<del>13.6814.29%</del>) / APS<br/> (<del>5.765.82%</del>) / ATSI (<del>8.047.49%</del>)<br/> / BGE (<del>4.114.01%</del>) / ComEd<br/> (<del>13.3914.06%</del>) / Dayton<br/> (<del>2.122.03%</del>) / DEOK<br/> (<del>3.253.21%</del>) / DL (<del>1.711.59%</del>) /<br/> DPL (<del>2.602.55%</del>) / Dominion<br/> (<del>13.3213.89%</del>) / EKPC<br/> (<del>1.892.35%</del>) / JCPL (<del>3.863.59%</del>)<br/> / ME (<del>1.901.81%</del>) / NEPTUNE*<br/> (0.42%) / OVEC (<del>0.080.06%</del>) /<br/> PECO (<del>5.405.11%</del>) / PENELEC<br/> (<del>1.781.73%</del>) / PEPCO<br/> (<del>3.673.68%</del>) / PPL (<del>4.724.43%</del>) /</p>   |

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|--|--|--|--|
|  |  |  | PSEG ( <del>6.395.99%</del> ) / RE<br>( <del>0.260.24%</del> )   |
|  |  |  | <b>DFAX Allocation:</b><br>APS ( <del>28.9431.98%</del> ) / BGE<br>( <del>13.7810.86%</del> ) / Dominion<br>( <del>32.1839.86%</del> ) / PEPCO<br>( <del>25.1017.30%</del> ) |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.7                            | Upgrade (per ABB inspection) breaker HL-7 | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP<br/>           (<del>13.68</del><u>14.29</u>%) / APS<br/>           (<del>5.765</del><u>8.2</u>%) / ATSI (<del>8.047</del><u>4.9</u>%)<br/>           / BGE (<del>4.114</del><u>0.1</u>%) / ComEd<br/>           (<del>13.39</del><u>14.06</u>%) / Dayton<br/>           (<del>2.122</del><u>0.03</u>%) / DEOK<br/>           (<del>3.253</del><u>3.21</u>%) / DL (<del>1.711</del><u>1.59</u>%) /<br/>           DPL (<del>2.602</del><u>2.55</u>%) / Dominion<br/>           (<del>13.32</del><u>13.89</u>%) / EKPC<br/>           (<del>1.892</del><u>3.5</u>%) / JCPL (<del>3.863</del><u>3.59</u>%)<br/>           / ME (<del>1.901</del><u>1.81</u>%) / NEPTUNE*<br/>           (0.42%) / OVEC (<del>0.080</del><u>0.06</u>%) /<br/>           PECO (<del>5.405</del><u>5.11</u>%) / PENELEC<br/>           (<del>1.781</del><u>1.73</u>%) / PEPCO<br/>           (<del>3.673</del><u>6.8</u>%) / PPL (<del>4.724</del><u>4.3</u>%) /<br/>           PSEG (<del>6.395</del><u>9.9</u>%) / RE<br/>           (<del>0.260</del><u>2.4</u>%)</p> <p><b>DFAX Allocation:</b><br/>           APS (<del>28.943</del><u>1.98</u>%) / BGE<br/>           (<del>13.78</del><u>10.86</u>%) / Dominion<br/>           (<del>32.183</del><u>9.86</u>%) / PEPCO<br/>           (<del>25.10</del><u>17.30</u>%)</p> |
| b0347.8                            | Upgrade (per ABB inspection) breaker HL-8 | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP<br/>           (<del>13.68</del><u>14.29</u>%) / APS<br/>           (<del>5.765</del><u>8.2</u>%) / ATSI (<del>8.047</del><u>4.9</u>%)<br/>           / BGE (<del>4.114</del><u>0.1</u>%) / ComEd<br/>           (<del>13.39</del><u>14.06</u>%) / Dayton<br/>           (<del>2.122</del><u>0.03</u>%) / DEOK<br/>           (<del>3.253</del><u>3.21</u>%) / DL (<del>1.711</del><u>1.59</u>%) /<br/>           DPL (<del>2.602</del><u>2.55</u>%) / Dominion<br/>           (<del>13.32</del><u>13.89</u>%) / EKPC<br/>           (<del>1.892</del><u>3.5</u>%) / JCPL (<del>3.863</del><u>3.59</u>%)<br/>           / ME (<del>1.901</del><u>1.81</u>%) / NEPTUNE*<br/>           (0.42%) / OVEC (<del>0.080</del><u>0.06</u>%) /<br/>           PECO (<del>5.405</del><u>5.11</u>%) / PENELEC<br/>           (<del>1.781</del><u>1.73</u>%) / PEPCO<br/>           (<del>3.673</del><u>6.8</u>%) / PPL (<del>4.724</del><u>4.3</u>%) /</p>   |

|  |  |  |   |
|--|--|--|---|
|  |  |  | <p>PSEG (<del>6.395.99%</del>) / RE<br/>(<del>0.260.24%</del>)</p>  |
|  |  |  | <p><b>DFAX Allocation:</b><br/> APS (<del>28.9431.98%</del>) / BGE<br/> (<del>13.7810.86%</del>) / Dominion<br/> (<del>32.1839.86%</del>) / PEPCO<br/> (<del>25.1017.30%</del>)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

| Required Transmission Enhancements | Annual Revenue Requirement                                  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.9                            | Upgrade (per ABB inspection) breaker HL-10                  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> |
|                                    |   | <p><b>DFAX Allocation:</b><br/>                     APS (<del>28.94</del><u>31.98</u>%) / BGE (<del>13.78</del><u>10.86</u>%) / Dominion (<del>32.18</del><u>39.86</u>%) / PEPCO (<del>25.10</del><u>17.30</u>%)</p>   |
| b0347.10                           | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-1 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> |
|                                    |   | <p><b>DFAX Allocation:</b><br/>                     APS (<del>28.94</del><u>31.98</u>%) / BGE (<del>13.78</del><u>10.86</u>%) / Dominion</p>   |

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|--|--|--|--|
|  |  |  | ( <del>32.18</del> <u>39.86</u> %) / PEPCO<br>( <del>25.10</del> <u>17.30</u> %) |
|--|--|--|--|

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.11                           | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-3 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>28.94</del><u>31.98</u>%) / BGE (<del>13.78</del><u>10.86</u>%) / Dominion (<del>32.18</del><u>39.86</u>%) / PEPCO (<del>25.10</del><u>17.30</u>%)</p> |
| b0347.12                           | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-4 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>28.94</del><u>31.98</u>%) / BGE (<del>13.78</del><u>10.86</u>%) / Dominion</p>   |

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|  |  |  | ( <del>32.18</del> <u>39.86</u> %) / PEPCO<br>( <del>25.10</del> <u>17.30</u> %) |
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\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.13                           | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-6 | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> APS (<del>28.94</del><u>31.98</u>%) / BGE (<del>13.78</del><u>10.86</u>%) / Dominion (<del>32.18</del><u>39.86</u>%) / PEPCO (<del>25.10</del><u>17.30</u>%)</p> |
| b0347.14                           | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-7 | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> APS (<del>28.94</del><u>31.98</u>%) / BGE (<del>13.78</del><u>10.86</u>%) / Dominion</p>   |

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|  |  |  | ( <del>32.18</del> <u>39.86</u> %) / PEPCO<br>( <del>25.10</del> <u>17.30</u> %) |
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\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.15                           | Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-9 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>28.94</del><u>31.98</u>%) / BGE (<del>13.78</del><u>10.86</u>%) / Dominion (<del>32.18</del><u>39.86</u>%) / PEPCO (<del>25.10</del><u>17.30</u>%)</p> |
| b0347.16                           | Upgrade (per ABB inspection) Harrison 500 kV breaker 'HL-3' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>28.94</del><u>31.98</u>%) / BGE (<del>13.78</del><u>10.86</u>%) / Dominion</p>   |

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|  |  |  | ( <del>32.18</del> <u>39.86</u> %) / PEPCO<br>( <del>25.10</del> <u>17.30</u> %) |
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\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0347.17                           | Replace Meadow Brook 138 kV breaker 'MD-10' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.57</del><u>21.84</u>%) / BGE (<del>7.27</del><u>7.08</u>%) / Dominion (<del>56.77</del><u>60.14</u>%) / PEPCO (<del>13.39</del><u>10.94</u>%)</p> |
| b0347.18                           | Replace Meadow Brook 138 kV breaker 'MD-11' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.57</del><u>21.84</u>%) / BGE (<del>7.27</del><u>7.08</u>%) / Dominion (<del>56.77</del><u>60.14</u>%) / PEPCO (<del>13.39</del><u>10.94</u>%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.19                           | Replace Meadow Brook 138 kV breaker 'MD-12' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.765</del>.82%) / ATSI (<del>8.047</del>.49%) / BGE (4.114.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.122</del>.03%) / DEOK (<del>3.253</del>.21%) / DL (<del>1.711</del>.59%) / DPL (<del>2.602</del>.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.892</del>.35%) / JCPL (<del>3.863</del>.59%) / ME (<del>1.901</del>.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.080</del>.06%) / PECO (<del>5.405</del>.11%) / PENELEC (<del>1.781</del>.73%) / PEPCO (<del>3.673</del>.68%) / PPL (<del>4.724</del>.43%) / PSEG (<del>6.395</del>.99%) / RE (<del>0.260</del>.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.572</del>1.84%) / BGE (<del>7.277</del>.08%) / Dominion (<del>56.77</del>60.14%) / PEPCO (<del>13.39</del>10.94%)</p> |
| b0347.20                           | Replace Meadow Brook 138 kV breaker 'MD-13' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.765</del>.82%) / ATSI (<del>8.047</del>.49%) / BGE (4.114.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.122</del>.03%) / DEOK (<del>3.253</del>.21%) / DL (<del>1.711</del>.59%) / DPL (<del>2.602</del>.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.892</del>.35%) / JCPL (<del>3.863</del>.59%) / ME (<del>1.901</del>.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.080</del>.06%) / PECO (<del>5.405</del>.11%) / PENELEC (<del>1.781</del>.73%) / PEPCO (<del>3.673</del>.68%) / PPL (<del>4.724</del>.43%) / PSEG (<del>6.395</del>.99%) / RE (<del>0.260</del>.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.572</del>1.84%) / BGE (<del>7.277</del>.08%) / Dominion</p>   |

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|  |  |  | ( <del>56.77</del> <u>60.14</u> %) / PEPCO<br>( <del>13.39</del> <u>10.94</u> %) |
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\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.21                           | Replace Meadow Brook 138 kV breaker 'MD-14' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.765</del>.82%) / ATSI (<del>8.047</del>.49%) / BGE (4.114.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.122</del>.03%) / DEOK (<del>3.253</del>.21%) / DL (<del>1.711</del>.59%) / DPL (<del>2.602</del>.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.892</del>.35%) / JCPL (<del>3.863</del>.59%) / ME (<del>1.901</del>.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.080</del>.06%) / PECO (<del>5.405</del>.11%) / PENELEC (<del>1.781</del>.73%) / PEPCO (<del>3.673</del>.68%) / PPL (<del>4.724</del>.43%) / PSEG (<del>6.395</del>.99%) / RE (<del>0.260</del>.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.572</del>1.84%) / BGE (<del>7.277</del>.08%) / Dominion (<del>56.77</del>60.14%) / PEPCO (<del>13.39</del>10.94%)</p> |
| b0347.22                           | Replace Meadow Brook 138 kV breaker 'MD-15' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.765</del>.82%) / ATSI (<del>8.047</del>.49%) / BGE (4.114.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.122</del>.03%) / DEOK (<del>3.253</del>.21%) / DL (<del>1.711</del>.59%) / DPL (<del>2.602</del>.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.892</del>.35%) / JCPL (<del>3.863</del>.59%) / ME (<del>1.901</del>.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.080</del>.06%) / PECO (<del>5.405</del>.11%) / PENELEC (<del>1.781</del>.73%) / PEPCO (<del>3.673</del>.68%) / PPL (<del>4.724</del>.43%) / PSEG (<del>6.395</del>.99%) / RE (<del>0.260</del>.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.572</del>1.84%) / BGE (<del>7.277</del>.08%) / Dominion</p>   |

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|  |  |  | ( <del>56.77</del> <u>60.14</u> %) / PEPCO<br>( <del>13.39</del> <u>10.94</u> %) |
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\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.23                           | Replace Meadow Brook 138 kV breaker 'MD-16' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.765</del>5.82%) / ATSI (<del>8.047</del>4.9%) / BGE (4.114.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.122</del>0.03%) / DEOK (<del>3.253</del>2.1%) / DL (<del>1.711</del>1.59%) / DPL (<del>2.602</del>2.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.892</del>2.35%) / JCPL (<del>3.863</del>3.59%) / ME (<del>1.901</del>1.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.080</del>0.06%) / PECO (<del>5.405</del>5.11%) / PENELEC (<del>1.781</del>1.73%) / PEPCO (<del>3.673</del>3.68%) / PPL (<del>4.724</del>4.43%) / PSEG (<del>6.395</del>5.99%) / RE (<del>0.260</del>0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.572</del>21.84%) / BGE (<del>7.277</del>7.08%) / Dominion (<del>56.77</del>60.14%) / PEPCO (<del>13.39</del>10.94%)</p> |
| b0347.24                           | Replace Meadow Brook 138 kV breaker 'MD-17' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.765</del>5.82%) / ATSI (<del>8.047</del>4.9%) / BGE (4.114.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.122</del>0.03%) / DEOK (<del>3.253</del>2.1%) / DL (<del>1.711</del>1.59%) / DPL (<del>2.602</del>2.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.892</del>2.35%) / JCPL (<del>3.863</del>3.59%) / ME (<del>1.901</del>1.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.080</del>0.06%) / PECO (<del>5.405</del>5.11%) / PENELEC (<del>1.781</del>1.73%) / PEPCO (<del>3.673</del>3.68%) / PPL (<del>4.724</del>4.43%) / PSEG (<del>6.395</del>5.99%) / RE (<del>0.260</del>0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.572</del>21.84%) / BGE (<del>7.277</del>7.08%) / Dominion</p>   |

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|  |  |  | ( <del>56.77</del> <u>60.14</u> %) / PEPCO<br>( <del>13.39</del> <u>10.94</u> %) |
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\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                        | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.25                           | Replace Meadow Brook 138 kV breaker 'MD-18'       | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.765</del>.82%) / ATSI (<del>8.047</del>.49%) / BGE (4.114.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.122</del>.03%) / DEOK (<del>3.253</del>.21%) / DL (<del>1.71</del>1.59%) / DPL (<del>2.602</del>.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.892</del>.35%) / JCPL (<del>3.863</del>.59%) / ME (<del>1.901</del>.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.080</del>.06%) / PECO (<del>5.405</del>.11%) / PENELEC (<del>1.781</del>.73%) / PEPCO (<del>3.673</del>.68%) / PPL (<del>4.724</del>.43%) / PSEG (<del>6.395</del>.99%) / RE (<del>0.260</del>.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.572</del>1.84%) / BGE (<del>7.277</del>.08%) / Dominion (<del>56.776</del>0.14%) / PEPCO (<del>13.39</del>10.94%)</p> |
| b0347.26                           | Replace Meadow Brook 138 kV breaker 'MD-22#1 CAP' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.765</del>.82%) / ATSI (<del>8.047</del>.49%) / BGE (4.114.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.122</del>.03%) / DEOK (<del>3.253</del>.21%) / DL (<del>1.71</del>1.59%) / DPL (<del>2.602</del>.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.892</del>.35%) / JCPL (<del>3.863</del>.59%) / ME (<del>1.901</del>.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.080</del>.06%) / PECO (<del>5.405</del>.11%) / PENELEC (<del>1.781</del>.73%) / PEPCO (<del>3.673</del>.68%) / PPL (<del>4.724</del>.43%) /</p>  |

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|  |  |  | PSEG ( <del>6.39</del> <u>5.99</u> %) / RE<br>( <del>0.26</del> <u>0.24</u> %)   |
|  |  |  | <b>DFAX Allocation:</b><br>APS ( <del>22.57</del> <u>21.84</u> %) / BGE<br>( <del>7.27</del> <u>7.08</u> %) / Dominion<br>( <del>56.77</del> <u>60.14</u> %) / PEPCO<br>( <del>13.39</del> <u>10.94</u> %) |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                 | Responsible Customer(s)   |
|------------------------------------|--|---|
| b0347.27                           | Replace Meadow Brook 138 kV breaker 'MD-4' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.57</del><u>21.84</u>%) / BGE (<del>7.27</del><u>7.08</u>%) / Dominion (<del>56.77</del><u>60.14</u>%) / PEPCO (<del>13.39</del><u>10.94</u>%)</p> |
| b0347.28                           | Replace Meadow Brook 138 kV breaker 'MD-5' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.57</del><u>21.84</u>%) / BGE (<del>7.27</del><u>7.08</u>%) / Dominion</p>   |

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|  |  |  | ( <del>56.77</del> <u>60.14</u> %) / PEPCO<br>( <del>13.39</del> <u>10.94</u> %) |
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\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.29                           | Replace Meadowbrook 138 kV breaker 'MD-6' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.765</del><u>5.82</u>%) / ATSI (<del>8.047</del><u>4.49</u>%) / BGE (<del>4.114</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.122</del><u>2.03</u>%) / DEOK (<del>3.253</del><u>3.21</u>%) / DL (<del>1.711</del><u>1.59</u>%) / DPL (<del>2.602</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.892</del><u>2.35</u>%) / JCPL (<del>3.863</del><u>3.59</u>%) / ME (<del>1.901</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.080</del><u>0.06</u>%) / PECO (<del>5.405</del><u>5.11</u>%) / PENELEC (<del>1.781</del><u>1.73</u>%) / PEPCO (<del>3.673</del><u>3.68</u>%) / PPL (<del>4.724</del><u>4.43</u>%) / PSEG (<del>6.395</del><u>5.99</u>%) / RE (<del>0.260</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.572</del><u>21.84</u>%) / BGE (<del>7.277</del><u>7.08</u>%) / Dominion (<del>56.776</del><u>60.14</u>%) / PEPCO (<del>13.391</del><u>10.94</u>%)</p> |
| b0347.30                           | Replace Meadowbrook 138 kV breaker 'MD-7' | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.765</del><u>5.82</u>%) / ATSI (<del>8.047</del><u>4.49</u>%) / BGE (<del>4.114</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.122</del><u>2.03</u>%) / DEOK (<del>3.253</del><u>3.21</u>%) / DL (<del>1.711</del><u>1.59</u>%) / DPL (<del>2.602</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.892</del><u>2.35</u>%) / JCPL (<del>3.863</del><u>3.59</u>%) / ME (<del>1.901</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.080</del><u>0.06</u>%) / PECO (<del>5.405</del><u>5.11</u>%) / PENELEC (<del>1.781</del><u>1.73</u>%) / PEPCO (<del>3.673</del><u>3.68</u>%) / PPL (<del>4.724</del><u>4.43</u>%) / PSEG (<del>6.395</del><u>5.99</u>%) / RE (<del>0.260</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.572</del><u>21.84</u>%) / BGE (<del>7.277</del><u>7.08</u>%) / Dominion</p>   |

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|  |  |  | ( <del>56.77</del> <u>60.14</u> %) / PEPCO<br>( <del>13.39</del> <u>10.94</u> %) |
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\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0347.31                           | Replace Meadowbrook 138 kV breaker 'MD-8' | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.76</del>5.82%) / ATSI (<del>8.04</del>7.49%) / BGE (4.114.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.12</del>2.03%) / DEOK (<del>3.25</del>3.21%) / DL (<del>1.71</del>1.59%) / DPL (<del>2.60</del>2.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.89</del>2.35%) / JCPL (<del>3.86</del>3.59%) / ME (<del>1.90</del>1.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del>0.06%) / PECO (<del>5.40</del>5.11%) / PENELEC (<del>1.78</del>1.73%) / PEPCO (<del>3.67</del>3.68%) / PPL (<del>4.72</del>4.43%) / PSEG (<del>6.39</del>5.99%) / RE (<del>0.26</del>0.24%)</p> <p><b>DFAX Allocation:</b><br/> APS (<del>22.57</del>21.84%) / BGE (<del>7.27</del>7.08%) / Dominion (<del>56.77</del>60.14%) / PEPCO (<del>13.39</del>10.94%)</p> |
| b0347.32                           | Replace Meadowbrook 138 kV breaker 'MD-9' | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.76</del>5.82%) / ATSI (<del>8.04</del>7.49%) / BGE (4.114.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.12</del>2.03%) / DEOK (<del>3.25</del>3.21%) / DL (<del>1.71</del>1.59%) / DPL (<del>2.60</del>2.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.89</del>2.35%) / JCPL (<del>3.86</del>3.59%) / ME (<del>1.90</del>1.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del>0.06%) / PECO (<del>5.40</del>5.11%) / PENELEC (<del>1.78</del>1.73%) / PEPCO (<del>3.67</del>3.68%) / PPL (<del>4.72</del>4.43%) /</p>  |

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|  |  |  | PSEG ( <del>6.395.99%</del> ) / RE<br>( <del>0.260.24%</del> )   |
|  |  |  | <b>DFAX Allocation:</b><br>APS ( <del>22.5721.84%</del> ) / BGE<br>( <del>7.277.08%</del> ) / Dominion<br>( <del>56.7760.14%</del> ) / PEPCO<br>( <del>13.3910.94%</del> ) |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                       | Responsible Customer(s)   |
|------------------------------------|--|---|
| b0347.33                           | Replace Meadow Brook 138 kV breaker 'MD-1'                       | APS (100%)  |
| b0347.34                           | Replace Meadow Brook 138 kV breaker 'MD-2'                       | APS (100%)  |
| b0348                              | Upgrade Stonewall – Inwood 138 kV with 954 ACSR conductor        | APS (100%)  |
| b0373                              | Convert Doubs – Monocacy 138 kV facilities to 230 kV operation   | AEC (1.82%) / APS (76.84%) / DPL (2.64%) / JCPL (4.53%) / ME (9.15%) / NEPTUNE* (0.42%) / PPL (4.60%)   |
| b0393                              | Replace terminal equipment at Harrison 500 kV and Belmont 500 kV | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP ( <del>13.68</del> <u>14.29</u> %) / APS ( <del>5.76</del> <u>5.82</u> %) / ATSI ( <del>8.04</del> <u>7.49</u> %) / BGE ( <del>4.11</del> <u>4.01</u> %) / ComEd ( <del>13.39</del> <u>14.06</u> %) / Dayton ( <del>2.12</del> <u>2.03</u> %) / DEOK ( <del>3.25</del> <u>3.21</u> %) / DL ( <del>1.71</del> <u>1.59</u> %) / DPL ( <del>2.60</del> <u>2.55</u> %) / Dominion ( <del>13.32</del> <u>13.89</u> %) / EKPC ( <del>1.89</del> <u>2.35</u> %) / JCPL ( <del>3.86</del> <u>3.59</u> %) / ME ( <del>1.90</del> <u>1.81</u> %) / NEPTUNE* (0.42%) / OVEC ( <del>0.08</del> <u>0.06</u> %) / PECO ( <del>5.40</del> <u>5.11</u> %) / PENELEC ( <del>1.78</del> <u>1.73</u> %) / PEPCO ( <del>3.67</del> <u>3.68</u> %) / PPL ( <del>4.72</del> <u>4.43</u> %) / PSEG ( <del>6.39</del> <u>5.99</u> %) / RE ( <del>0.26</del> <u>0.24</u> %) |
|                                    |  | <b>DFAX Allocation:</b><br>APS ( <del>1.47</del> <u>0.01</u> %) / <del>Dayton (0.26%)</del> / DEOK ( <del>0.44</del> <u>0.01</u> %) / DL ( <del>9.95</del> <u>4.83</u> %) / Dominion ( <del>87.75</del> <u>95.15</u> %) / <del>EKPC (0.13%)</del>   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                            | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b0406.1                            | Replace Mitchell 138 kV breaker “#4 bank”             | APS (100%)              |
| b0406.2                            | Replace Mitchell 138 kV breaker “#5 bank”             | APS (100%)              |
| b0406.3                            | Replace Mitchell 138 kV breaker “#2 transf”           | APS (100%)              |
| b0406.4                            | Replace Mitchell 138 kV breaker “#3 bank”             | APS (100%)              |
| b0406.5                            | Replace Mitchell 138 kV breaker “Charlerio #2”        | APS (100%)              |
| b0406.6                            | Replace Mitchell 138 kV breaker “Charlerio #1”        | APS (100%)              |
| b0406.7                            | Replace Mitchell 138 kV breaker “Shepler Hill Jct”    | APS (100%)              |
| b0406.8                            | Replace Mitchell 138 kV breaker “Union Jct”           | APS (100%)              |
| b0406.9                            | Replace Mitchell 138 kV breaker “#1-2 138 kV bus tie” | APS (100%)              |
| b0407.1                            | Replace Marlowe 138 kV breaker “#1 transf”            | APS (100%)              |
| b0407.2                            | Replace Marlowe 138 kV breaker “MBO”                  | APS (100%)              |
| b0407.3                            | Replace Marlowe 138 kV breaker “BMA”                  | APS (100%)              |
| b0407.4                            | Replace Marlowe 138 kV breaker “BMR”                  | APS (100%)              |
| b0407.5                            | Replace Marlowe 138 kV breaker “WC-1”                 | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b0407.6                            | Replace Marlowe 138 kV breaker "R11"                              | APS (100%)              |
| b0407.7                            | Replace Marlowe 138 kV breaker "W"                                | APS (100%)              |
| b0407.8                            | Replace Marlowe 138 kV breaker "138 kV bus tie"                   | APS (100%)              |
| b0408.1                            | Replace Trissler 138 kV breaker "Belmont 604"                     | APS (100%)              |
| b0408.2                            | Replace Trissler 138 kV breaker "Edgelawn 90"                     | APS (100%)              |
| b0409.1                            | Replace Weirton 138 kV breaker "Wylie Ridge 210"                  | APS (100%)              |
| b0409.2                            | Replace Weirton 138 kV breaker "Wylie Ridge 216"                  | APS (100%)              |
| b0410                              | Replace Glen Falls 138 kV breaker "McAlpin 30"                    | APS (100%)              |
| b0417                              | Reconductor Mitchell – Shepler Hill Junction 138 kV with 954 ACSR | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b0418                              | Install a breaker failure auto-restoration scheme at Cabot 500 kV for the failure of the #6 breaker  | AEC (1.65%) / AEP ( <del>13.68</del> <u>14.29</u> %) / APS ( <del>5.76</del> <u>5.82</u> %) / ATSI ( <del>8.04</del> <u>7.49</u> %) / BGE ( <del>4.11</del> <u>4.01</u> %) / ComEd ( <del>13.39</del> <u>14.06</u> %) / Dayton ( <del>2.12</del> <u>2.03</u> %) / DEOK ( <del>3.25</del> <u>3.21</u> %) / DL ( <del>1.71</del> <u>1.59</u> %) / DPL ( <del>2.60</del> <u>2.55</u> %) / Dominion ( <del>13.32</del> <u>13.89</u> %) / EKPC ( <del>1.89</del> <u>2.35</u> %) / JCPL ( <del>3.86</del> <u>3.59</u> %) / ME ( <del>1.90</del> <u>1.81</u> %) / NEPTUNE* (0.42%) / OVEC ( <del>0.08</del> <u>0.06</u> %) / PECO ( <del>5.40</del> <u>5.11</u> %) / PENELEC ( <del>1.78</del> <u>1.73</u> %) / PEPCO ( <del>3.67</del> <u>3.68</u> %) / PPL ( <del>4.72</del> <u>4.43</u> %) / PSEG ( <del>6.39</del> <u>5.99</u> %) / RE ( <del>0.26</del> <u>0.24</u> %)                                    |
| b0419                              | Install a breaker failure auto-restoration scheme at Bedington 500 kV for the failure of the #1 and #2 breakers                            | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> APS (100%)</p> |
| b0420                              | Operating Procedure to open the Black Oak 500/138 kV transformer #3 for the loss of Hatfield – Ronco 500 kV and the Hatfield #3 Generation | APS (100%)  |
| b0445                              | Upgrade substation equipment and reconductor the Tidd –  | APS (100%)  |

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|  | Mahans Lane – Weirton<br>138 kV circuit with 954<br>ACSR |  |  |
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\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0460                              | Raise limiting structures on Albright – Bethelboro 138 kV to raise the rating to 175 MVA normal 214 MVA emergency | APS (100%)   |
| b0491                              | Construct an Amos to Welton Spring to WV state line 765 kV circuit (APS equipment)                                | <p>As specified under the procedures detailed in Attachment H-19B</p> <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.765</del>5.82%) / ATSI (<del>8.047</del>4.9%) / BGE (<del>4.114</del>4.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.122</del>2.03%) / DEOK (<del>3.253</del>3.21%) / DL (<del>1.711</del>1.59%) / DPL (<del>2.602</del>2.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.892</del>2.35%) / JCPL (<del>3.863</del>3.59%) / ME (<del>1.901</del>1.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.080</del>0.06%) / PECO (<del>5.405</del>5.11%) / PENELEC (<del>1.781</del>1.73%) / PEPCO (<del>3.673</del>3.68%) / PPL (<del>4.724</del>4.43%) / PSEG (<del>6.395</del>5.99%) / RE (<del>0.260</del>0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     AEC (5.01%) / AEP (4.39%) / APS (9.26%) / BGE (4.43%) / DL (0.02%) / DPL (6.91%) / Dominion (10.82%) / JCPL (11.64%) / ME (2.94%) / NEPTUNE* (1.12%) / PECO (14.51%) / PEPCO (6.11%) / PPL (6.39%) / PSEG (15.86%) / RE (0.59%)</p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0492                              | Construct a Welton Spring to Kemptown 765 kV line (APS equipment) | <p>As specified under the procedures detailed in Attachment H-19B</p> <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.765</del><u>8.2</u>%) / ATSI (<del>8.047</del><u>4.9</u>%) / BGE (<del>4.114</del><u>0.1</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.122</del><u>0.3</u>%) / DEOK (<del>3.253</del><u>3.21</u>%) / DL (<del>1.711</del><u>1.59</u>%) / DPL (<del>2.602</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.892</del><u>2.35</u>%) / JCPL (<del>3.863</del><u>3.59</u>%) / ME (<del>1.901</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.080</del><u>0.06</u>%) / PECO (<del>5.405</del><u>5.11</u>%) / PENELEC (<del>1.781</del><u>1.73</u>%) / PEPCO (<del>3.673</del><u>3.68</u>%) / PPL (<del>4.724</del><u>4.43</u>%) / PSEG (<del>6.395</del><u>5.99</u>%) / RE (<del>0.260</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     AEC (5.01%) / AEP (4.39%) / APS (9.26%) / BGE (4.43%) / DL (0.02%) / DPL (6.91%) / Dominion (10.82%) / JCPL (11.64%) / ME (2.94%) / NEPTUNE* (1.12%) / PECO (14.51%) / PEPCO (6.11%) / PPL (6.39%) / PSEG (15.86%) / RE (0.59%)</p> |
| b0492.3                            | Replace Eastalco 230 kV breaker D-26                              | APS (100%)  |
| b0492.4                            | Replace Eastalco 230 kV breaker D-28                              | APS (100%)  |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b0492.5                            | Replace Eastalco 230 kV breaker D-31   | APS (100%)  |
| b0495                              | Replace existing Kammer 765/500 kV transformer with a new larger transformer           | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP ( <del>13.68</del> <u>14.29</u> %) / APS ( <del>5.76</del> <u>5.82</u> %) / ATSI ( <del>8.04</del> <u>7.49</u> %) / BGE ( <del>4.14</del> <u>4.01</u> %) / ComEd ( <del>13.39</del> <u>14.06</u> %) / Dayton ( <del>2.12</del> <u>2.03</u> %) / DEOK ( <del>3.25</del> <u>3.21</u> %) / DL ( <del>1.71</del> <u>1.59</u> %) / DPL ( <del>2.60</del> <u>2.55</u> %) / Dominion ( <del>13.32</del> <u>13.89</u> %) / EKPC ( <del>1.89</del> <u>2.35</u> %) / JCPL ( <del>3.86</del> <u>3.59</u> %) / ME ( <del>1.90</del> <u>1.81</u> %) / NEPTUNE* (0.42%) / OVEC ( <del>0.08</del> <u>0.06</u> %) / PECO ( <del>5.40</del> <u>5.11</u> %) / PENELEC ( <del>1.78</del> <u>1.73</u> %) / PEPCO ( <del>3.67</del> <u>3.68</u> %) / PPL ( <del>4.72</del> <u>4.43</u> %) / PSEG ( <del>6.39</del> <u>5.99</u> %) / RE ( <del>0.26</del> <u>0.24</u> %) |
|                                    |  | <b>DFAX Allocation:</b><br>AEP ( <del>0.13</del> <u>21.66</u> %) / APS ( <del>0.13</del> <u>0.01</u> %) / BGE ( <del>15.93</del> <u>7.14</u> %) / <del>Dayton (0.04%)</del> / DEOK ( <del>0.06</del> <u>0.01</u> %) / Dominion ( <del>64.90</del> <u>62.25</u> %) / <del>EKPC (0.02%)</del> / PEPCO ( <del>18.79</del> <u>8.93</u> %)   |
| b0533                              | Reconductor the Powell Mountain – Sutton 138 kV line                                   | APS (100%)  |
| b0534                              | Install a 28.61 MVAR capacitor on Sutton 138 kV  | APS (100%)  |
| b0535                              | Install a 44 MVAR capacitor on Dutch Fork 138 kV                                       | APS (100%)  |
| b0536                              | Replace Doubs circuit breaker DJ1  | APS (100%)  |
| b0537                              | Replace Doubs circuit breaker DJ7  | APS (100%)  |
| b0538                              | Replace Doubs circuit breaker DJ10   | APS (100%)  |
| b0572.1                            | Reconductor Albright – Mettiki – Williams – Parsons – Loughs Lane 138 kV with 954 ACSR | APS (100%)  |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b0572.2                            | Reconductor Albright – Mettiki – Williams – Parsons – Loughs Lane 138 kV with 954 ACSR   | APS (100%)  |
| b0573                              | Reconfigure circuits in Butler – Cabot 138 kV area   | APS (100%)  |
| b0577                              | Replace Fort Martin 500 kV breaker FL-1  | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP ( <del>13.68</del> <u>14.29</u> %) / APS ( <del>5.76</del> <u>5.82</u> %) / ATSI ( <del>8.04</del> <u>7.49</u> %) / BGE ( <del>4.14</del> <u>4.01</u> %) / ComEd ( <del>13.39</del> <u>14.06</u> %) / Dayton ( <del>2.12</del> <u>2.03</u> %) / DEOK ( <del>3.25</del> <u>3.21</u> %) / DL ( <del>1.71</del> <u>1.59</u> %) / DPL ( <del>2.60</del> <u>2.55</u> %) / Dominion ( <del>13.32</del> <u>13.89</u> %) / EKPC ( <del>1.89</del> <u>2.35</u> %) / JCPL ( <del>3.86</del> <u>3.59</u> %) / ME ( <del>1.90</del> <u>1.81</u> %) / NEPTUNE* (0.42%) / OVEC ( <del>0.08</del> <u>0.06</u> %) / PECO ( <del>5.40</del> <u>5.11</u> %) / PENELEC ( <del>1.78</del> <u>1.73</u> %) / PEPCO ( <del>3.67</del> <u>3.68</u> %) / PPL ( <del>4.72</del> <u>4.43</u> %) / PSEG ( <del>6.39</del> <u>5.99</u> %) / RE ( <del>0.26</del> <u>0.24</u> %) |
|                                    |  | <b>DFAX Allocation:</b><br>APS (100%)   |
| b0584                              | Install 33 MVAR 138 kV capacitor at Necessity 138 kV   | APS (100%)  |
| b0585                              | Increase Cecil 138 kV capacitor size to 44 MVAR, replace five 138 kV breakers at Cecil due to increased short circuit fault duty as a result of the addition of the Prexy substation | APS (100%)  |
| b0586                              | Increase Whiteley 138 kV capacitor size to 44 MVAR   | APS (100%)  |

\*Neptune Regional Transmission System, LLC



**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0587                              | Reconductor AP portion of Tidd – Carnegie 138 kV and Carnegie – Weirton 138 kV with 954 ACSR | APS (100%)   |
| b0588                              | Install a 40.8 MVAR 138 kV capacitor at Grassy Falls   | APS (100%)   |
| b0589                              | Replace five 138 kV breakers at Cecil  | APS (100%)   |
| b0590                              | Replace #1 and #2 breakers at Charleroi 138 kV   | APS (100%)   |
| b0591                              | Install a 25.2 MVAR capacitor at Seneca Caverns 138 kV                                       | APS (100%)   |
| b0673                              | Rebuild Elko – Carbon Center Junction using 230 kV construction                              | APS (100%)   |
| b0674                              | Construct new Osage – Whiteley 138 kV circuit  | APS (97.68%) / DL (0.96%) / PENELEC (1.09%) / ECP** (0.01%) / PSEG (0.25%) / RE (0.01%)  |
| b0674.1                            | Replace the Osage 138 kV breaker ‘CollinsF126’   | APS (100%)   |
| b0675.1                            | Convert Monocacy - Walkersville 138 kV to 230 kV   | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.2                            | Convert Walkersville - Catoclin 138 kV to 230 kV   | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |

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**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b0675.3                            | Convert Ringgold - Catoctin 138 kV to 230 kV                 | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.4                            | Convert Catoctin - Carroll 138 kV to 230 kV                  | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.5                            | Convert portion of Ringgold Substation from 138 kV to 230 kV | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.6                            | Convert Catoctin Substation from 138 kV to 230 kV            | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.7                            | Convert portion of Carroll Substation from 138 kV to 230 kV  | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |
| b0675.8                            | Convert Monocacy Substation from 138 kV to 230 kV            | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%) |

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

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                              | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0675.9                            | Convert Walkersville Substation from 138 kV to 230 kV   | AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)     |
| b0676.1                            | Reconductor Doubs - Lime Kiln (#207) 230 kV             | AEC (0.64%) / APS (86.70%) / DPL (0.53%) / JCPL (1.93%) / ME (4.04%) / NEPTUNE* (0.18%) / PECO (1.93%) / PENELEC (0.93%) / PSEG (2.92%) / RE (0.12%) / ECP** (0.08%) |
| b0676.2                            | Reconductor Doubs - Lime Kiln (#231) 230 kV             | AEC (0.64%) / APS (86.70%) / DPL (0.53%) / JCPL (1.93%) / ME (4.04%) / NEPTUNE* (0.18%) / PECO (1.93%) / PENELEC (0.93%) / PSEG (2.92%) / RE (0.12%) / ECP** (0.08%) |
| b0677                              | Reconductor Double Toll Gate – Riverton with 954 ACSR   | APS (100%)   |
| b0678                              | Reconductor Glen Falls - Oak Mound 138 kV with 954 ACSR | APS (100%)   |
| b0679                              | Reconductor Grand Point – Letterkenny with 954 ACSR     | APS (100%)   |
| b0680                              | Reconductor Greene – Letterkenny with 954 ACSR          | APS (100%)   |
| b0681                              | Replace 600/5 CT's at Franklin 138 kV                   | APS (100%)   |
| b0682                              | Replace 600/5 CT's at Whiteley 138 kV                   | APS (100%)   |

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**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                              | Responsible Customer(s)  |
|------------------------------------|---|--|
| b0684                              | Reconductor Guilford – South Chambersburg with 954 ACSR | APS (100%)   |
| b0685                              | Replace Ringgold 230/138 kV #3 with larger transformer  | APS (71.93%) / JCPL (4.17%) / ME (6.79%) / NEPTUNE* (0.38%) / PECO (4.05%) / PENELEC (5.88%) / ECP** (0.18%) / PSEG (6.37%) / RE (0.25%) |
| b0704                              | Install a third Cabot 500/138 kV transformer            | APS (74.36%) / DL (2.73%) / PENELEC (22.91%)   |
| b0797                              | Advance n0321 (Replace Doubs Circuit Breaker DJ2)       | APS (100%)   |
| b0798                              | Advance n0322 (Replace Doubs Circuit Breaker DJ3)       | APS (100%)   |
| b0799                              | Advance n0323 (Replace Doubs Circuit Breaker DJ6)       | APS (100%)   |
| b0800                              | Advance n0327 (Replace Doubs Circuit Breaker DJ16)      | APS (100%)   |
| b0941                              | Replace Opequon 138 kV breaker 'BUSTIE'                 | APS (100%)   |
| b0942                              | Replace Butler 138 kV breaker '#1 BANK'                 | APS (100%)   |
| b0943                              | Replace Butler 138 kV breaker '#2 BANK'                 | APS (100%)   |
| b0944                              | Replace Yukon 138 kV breaker 'Y-8'                      | APS (100%)   |
| b0945                              | Replace Yukon 138 kV breaker 'Y-3'                      | APS (100%)   |

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**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                      | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b0946                              | Replace Yukon 138 kV breaker 'Y-1'              | APS (100%)              |
| b0947                              | Replace Yukon 138 kV breaker 'Y-5'              | APS (100%)              |
| b0948                              | Replace Yukon 138 kV breaker 'Y-2'              | APS (100%)              |
| b0949                              | Replace Yukon 138 kV breaker 'Y-19'             | APS (100%)              |
| b0950                              | Replace Yukon 138 kV breaker 'Y-4'              | APS (100%)              |
| b0951                              | Replace Yukon 138 kV breaker 'Y-9'              | APS (100%)              |
| b0952                              | Replace Yukon 138 kV breaker 'Y-11'             | APS (100%)              |
| b0953                              | Replace Yukon 138 kV breaker 'Y-13'             | APS (100%)              |
| b0954                              | Replace Charleroi 138 kV breaker '#1 XFMR BANK' | APS (100%)              |
| b0955                              | Replace Yukon 138 kV breaker 'Y-7'              | APS (100%)              |
| b0956                              | Replace Pruntytown 138 kV breaker 'P-9'         | APS (100%)              |
| b0957                              | Replace Pruntytown 138 kV breaker 'P-12'        | APS (100%)              |
| b0958                              | Replace Pruntytown 138 kV breaker 'P-15'        | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                       | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b0959                              | Replace Charleroi 138 kV breaker '#2 XFMR BANK'  | APS (100%)              |
| b0960                              | Replace Pruntytown 138 kV breaker 'P-2'          | APS (100%)              |
| b0961                              | Replace Pruntytown 138 kV breaker 'P-5'          | APS (100%)              |
| b0962                              | Replace Yukon 138 kV breaker 'Y-18'              | APS (100%)              |
| b0963                              | Replace Yukon 138 kV breaker 'Y-10'              | APS (100%)              |
| b0964                              | Replace Pruntytown 138 kV breaker 'P-11'         | APS (100%)              |
| b0965                              | Replace Springdale 138 kV breaker '138E'         | APS (100%)              |
| b0966                              | Replace Pruntytown 138 kV breaker 'P-8'          | APS (100%)              |
| b0967                              | Replace Pruntytown 138 kV breaker 'P-14'         | APS (100%)              |
| b0968                              | Replace Ringgold 138 kV breaker '#3 XFMR BANK'   | APS (100%)              |
| b0969                              | Replace Springdale 138 kV breaker '138C'         | APS (100%)              |
| b0970                              | Replace Rivesville 138 kV breaker '#8 XFMR BANK' | APS (100%)              |
| b0971                              | Replace Springdale 138 kV breaker '138F'         | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                        | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b0972                              | Replace Belmont 138 kV breaker 'B-16'             | APS (100%)              |
| b0973                              | Replace Springdale 138 kV breaker '138G'          | APS (100%)              |
| b0974                              | Replace Springdale 138 kV breaker '138V'          | APS (100%)              |
| b0975                              | Replace Armstrong 138 kV breaker 'BROOKVILLE'     | APS (100%)              |
| b0976                              | Replace Springdale 138 kV breaker '138P'          | APS (100%)              |
| b0977                              | Replace Belmont 138 kV breaker 'B-17'             | APS (100%)              |
| b0978                              | Replace Springdale 138 kV breaker '138U'          | APS (100%)              |
| b0979                              | Replace Springdale 138 kV breaker '138D'          | APS (100%)              |
| b0980                              | Replace Springdale 138 kV breaker '138R'          | APS (100%)              |
| b0981                              | Replace Yukon 138 kV breaker 'Y-12'               | APS (100%)              |
| b0982                              | Replace Yukon 138 kV breaker 'Y-17'               | APS (100%)              |
| b0983                              | Replace Yukon 138 kV breaker 'Y-14'               | APS (100%)              |
| b0984                              | Replace Rivesville 138 kV breaker '#10 XFMR BANK' | APS (100%)              |
| b0985                              | Replace Belmont 138 kV breaker 'B-14'             | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                      | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b0986                              | Replace Armstrong 138 kV breaker 'RESERVE BUS'                  | APS (100%)              |
| b0987                              | Replace Yukon 138 kV breaker 'Y-16'                             | APS (100%)              |
| b0988                              | Replace Springdale 138 kV breaker '138T'                        | APS (100%)              |
| b0989                              | Replace Edgelawn 138 kV breaker 'GOFF RUN #632'                 | APS (100%)              |
| b0990                              | Change reclosing on Cabot 138 kV breaker 'C-9'                  | APS (100%)              |
| b0991                              | Change reclosing on Belmont 138 kV breaker 'B-7'                | APS (100%)              |
| b0992                              | Change reclosing on Belmont 138 kV breaker 'B-12'               | APS (100%)              |
| b0993                              | Change reclosing on Belmont 138 kV breaker 'B-9'                | APS (100%)              |
| b0994                              | Change reclosing on Belmont 138 kV breaker 'B-19'               | APS (100%)              |
| b0995                              | Change reclosing on Belmont 138 kV breaker 'B-21'               | APS (100%)              |
| b0996                              | Change reclosing on Willow Island 138 kV breaker 'FAIRVIEW #84' | APS (100%)              |
| b0997                              | Change reclosing on Cabot 138 kV breaker 'C-4'                  | APS (100%)              |
| b0998                              | Change reclosing on Cabot 138 kV breaker 'C-1'                  | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---------------------------|
| b0999                              | Replace Redbud 138 kV breaker 'BUS TIE'   | APS (100%)                |
| b1022.1                            | Reconfigure the Peters to Bethel Park 138 kV line and Elrama to Woodville 138 kV line to create a 138 kV path from Woodville to Peters and a 138 kV path from Elrama to Bethel Park | APS (96.98%) / DL (3.02%) |
| b1022.3                            | Add static capacitors at Smith 138 kV   | APS (96.98%) / DL (3.02%) |
| b1022.4                            | Add static capacitors at North Fayette 138 kV   | APS (96.98%) / DL (3.02%) |
| b1022.5                            | Add static capacitors at South Fayette 138 kV   | APS (96.98%) / DL (3.02%) |
| b1022.6                            | Add static capacitors at Manifold 138 kV  | APS (96.98%) / DL (3.02%) |
| b1022.7                            | Add static capacitors at Houston 138 kV   | APS (96.98%) / DL (3.02%) |
| b1023.1                            | Install a 500/138 kV transformer at 502 Junction  | APS (100%)                |
| b1023.2                            | Construct a new Franklin - 502 Junction 138 kV line including a rebuild of the Whiteley - Franklin 138 kV line to double circuit  | APS (100%)                |
| b1023.3                            | Construct a new 502 Junction - Osage 138 kV line  | APS (100%)                |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1023.4                            | Construct Braddock 138 kV breaker station that connects the Charleroi - Gordon 138 kV line, Washington - Franklin 138 kV line and the Washington - Vanceville 138 kV line including a 66 MVAR capacitor | APS (100%)              |
| b1027                              | Increase the size of the shunt capacitors at Enon 138 kV  | APS (100%)              |
| b1028                              | Raise three structures on the Osage - Collins Ferry 138 kV line to increase the line rating   | APS (100%)              |
| b1128                              | Reconductor the Edgewater – Vasco Tap; Edgewater – Loyalhanna 138 kV lines with 954 ACSR  | APS (100%)              |
| b1129                              | Reconductor the East Waynesboro – Ringgold 138 kV line with 954 ACSR  | APS (100%)              |
| b1131                              | Upgrade Double Tollgate – Meadowbrook MDT Terminal Equipment  | APS (100%)              |
| b1132                              | Upgrade Double Tollgate-Meadowbrook MBG terminal equipment  | APS (100%)              |
| b1133                              | Upgrade terminal equipment at Springdale  | APS (100%)              |
| b1135                              | Reconductor the Bartonville – Meadowbrook 138 kV line with high temperature conductor   | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s)   |
|--|----------------------------|---|
| b1137<br>Reconductor the Eastgate – Luxor 138 kV;<br>Eastgate – Sony 138 kV line with 954 ACSR                 |                            | APS (78.59%) / PENELEC (14.08%) / ECP** (0.23%) / PSEG (6.83%) / RE (0.27%) |
| b1138<br>Reconductor the King Farm – Sony 138 kV line with 954 ACSR  |                            | APS (100%)  |
| b1139<br>Reconductor the Yukon – Waltz Mills 138 kV line with high temperature conductor                       |                            | APS (100%)  |
| b1140<br>Reconductor the Bracken Junction – Luxor 138 kV line with 954 ACSR                                    |                            | APS (100%)  |
| b1141<br>Reconductor the Sewickley – Waltz Mills Tap 138 kV line with high temperature conductor               |                            | APS (100%)  |
| b1142<br>Reconductor the Bartonsville – Stephenson 138 kV;<br>Stonewall – Stephenson 138 kV line with 954 ACSR |                            | APS (100%)  |
| b1143<br>Reconductor the Youngwood – Yukon 138 kV line with high temperature conductor                         |                            | APS (89.92%) / PENELEC (10.08%)   |
| b1144<br>Reconductor the Bull Creek Junction – Cabot 138 kV line with high temperature conductor               |                            | APS (100%)  |

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

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1145                              | Reconductor the Lawson Junction – Cabot 138 kV line with high temperature conductor | APS (100%)              |
| b1146                              | Replace Layton - Smithton #61 138 kV line structures to increase line rating        | APS (100%)              |
| b1147                              | Replace Smith – Yukon 138 kV line structures to increase line rating                | APS (100%)              |
| b1148                              | Reconductor the Loyalhanna – Luxor 138 kV line with 954 ACSR                        | APS (100%)              |
| b1149                              | Reconductor the Luxor – Stony Springs Junction 138 kV line with 954 ACSR            | APS (100%)              |
| b1150                              | Upgrade terminal equipment at Social Hall   | APS (100%)              |
| b1151                              | Reconductor the Greenwood – Redbud 138 kV line with 954 ACSR                        | APS (100%)              |
| b1152                              | Reconductor Grand Point – South Chambersburg  | APS (100%)              |
| b1159                              | Replace Peters 138 kV breaker ‘Bethel P OCB’  | APS (100%)              |
| b1160                              | Replace Peters 138 kV breaker ‘Cecil OCB’   | APS (100%)              |
| b1161                              | Replace Peters 138 kV breaker ‘Union JctOCB’  | APS (100%)              |
| b1162                              | Replace Double Toll Gate 138 kV breaker ‘DRB-2’                                     | APS (100%)              |
| b1163                              | Replace Double Toll Gate 138 kV breaker ‘DT 138 kV OCB’                             | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b1164                              | Replace Cecil 138 kV breaker 'Enlow OCB'   | APS (100%)   |
| b1165                              | Replace Cecil 138 kV breaker 'South Fayette'   | APS (100%)   |
| b1166                              | Replace Wylie Ridge 138 kV breaker 'W-9'   | APS (100%)   |
| b1167                              | Replace Reid 138 kV breaker 'RI-2'   | APS (100%)   |
| b1171.1                            | Install the second Black Oak 500/138 kV transformer, two 138 kV breaker, and related substation work | BGE (20.76%) / DPL (3.14%) / Dominion (39.55%) / ME (2.71%) / PECO (3.36%) / PEPCO (30.48%)  |
| b1171.3                            | Install six 500 kV breakers and remove BOL1 500 kV breaker at Black Oak                              | AEC (1.65%) / AEP ( <del>13.68</del> <u>14.29</u> %) / APS ( <del>5.765</del> <u>8.2</u> %) / ATSI ( <del>8.047</del> <u>4.9</u> %) / BGE ( <del>4.114</del> <u>0.1</u> %) / ComEd ( <del>13.39</del> <u>14.06</u> %) / Dayton ( <del>2.122</del> <u>0.3</u> %) / DEOK ( <del>3.253</del> <u>2.1</u> %) / DL ( <del>1.711</del> <u>1.59</u> %) / DPL ( <del>2.602</del> <u>2.55</u> %) / Dominion ( <del>13.32</del> <u>13.89</u> %) / EKPC ( <del>1.892</del> <u>3.5</u> %) / JCPL ( <del>3.863</del> <u>3.59</u> %) / ME ( <del>1.901</del> <u>1.81</u> %) / NEPTUNE* (0.42%) / OVEC ( <del>0.080</del> <u>0.06</u> %) / PECO ( <del>5.405</del> <u>1.1</u> %) / PENELEC ( <del>1.781</del> <u>1.73</u> %) / PEPCO ( <del>3.673</del> <u>6.8</u> %) / PPL ( <del>4.724</del> <u>4.3</u> %) / PSEG ( <del>6.395</del> <u>9.9</u> %) / RE ( <del>0.260</del> <u>2.4</u> %) |
| b1200                              | Reconductor Double Toll Gate – Greenwood 138 kV with 954 ACSR conductor                              | APS (100%)   |
| b1221.1                            | Convert Carbon Center from 138 kV to a 230 kV ring bus   | APS (100%)   |
| b1221.2                            | Construct Bear Run 230 kV substation with 230/138 kV transformer                                     | APS (100%)   |

\*Neptune Regional Transmission System, LLC



**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b1221.3                            | Loop Carbon Center Junction – Williamette line into Bear Run  | APS (100%)   |
| b1221.4                            | Carbon Center – Carbon Center Junction & Carbon Center Junction – Bear Run conversion from 138 kV to 230 kV                                   | APS (100%)   |
| b1230                              | Reconductor Willow-Eureka & Eureka-St Mary 138 kV lines   | APS (100%)   |
| b1232                              | Reconductor Nipetown – Reid 138 kV with 1033 ACCR   | AEC (1.40%) / APS (75.74%) / DPL (1.92%) / JCPL (2.92%) / ME (6.10%) / NEPTUNE* (0.27%) / PECO (4.40%) / PENELEC (3.26%) / PPL (3.99%) |
| b1233.1                            | Upgrade terminal equipment at Washington  | APS (100%)   |
| b1234                              | Replace structures between Ridgeway and Paper city  | APS (100%)   |
| b1235                              | Reconductor the Albright – Black Oak AFA 138 kV line with 795 ACSS/TW   | APS (30.25%) / BGE (16.10%) / Dominion (30.51%) / PEPSCO (23.14%)  |
| b1237                              | Upgrade terminal equipment at Albright, replace bus and line side breaker disconnects and leads, replace breaker risers, upgrade RTU and line | APS (100%)   |
| b1238                              | Install a 138 kV 44 MVAR capacitor at Edgelawn substation   | APS (100%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)                     |
|------------------------------------|--|---|
| b1239                              | Install a 138 kV 44 MVAR capacitor at Ridgeway substation                              | APS (100%)                                  |
| b1240                              | Install a 138 kV 44 MVAR capacitor at Elko Substation                                  | APS (100%)                                  |
| b1241                              | Upgrade terminal equipment at Washington substation on the GE Plastics/DuPont terminal | APS (100%)                                  |
| b1242                              | Replace structures between Collins Ferry and West Run                                  | APS (100%)                                  |
| b1243                              | Install a 138 kV capacitor at Potter Substation  | APS (100%)                                  |
| b1261                              | Replace Butler 138 kV breaker '1-2 BUS 138'  | APS (100%)                                  |
| b1383                              | Install 2nd 500/138 kV transformer at 502 Junction                                     | APS (93.27%) / DL (5.39%) / PENELEC (1.34%) |
| b1384                              | Reconductor approximately 2.17 miles of Bedington – Shepherdstown 138 kV with 954 ACSR | APS (100%)                                  |
| b1385                              | Reconductor Halfway – Paramount 138 kV with 1033 ACCR                                  | APS (100%)                                  |
| b1386                              | Reconductor Double Tollgate – Meadow Brook 138 kV ckt 2 with 1033 ACCR                 | APS (93.33%) / BGE (3.39%) / PEPCO (3.28%)  |
| b1387                              | Reconductor Double Tollgate – Meadow Brook 138 kV                                      | APS (93.33%) / BGE (3.39%) / PEPCO (3.28%)  |
| b1388                              | Reconductor Feagans Mill – Millville 138 kV with 954 ACSR                              | APS (100%)                                  |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)                   |
|------------------------------------|--|---|
| b1389                              | Reconductor Bens Run – St. Mary’s 138 kV with 954 ACSR                                 | AEP (12.40%) / APS (17.80%) / DL (69.80%) |
| b1390                              | Replace Bus Tie Breaker at Opequon   | APS (100%)                                |
| b1391                              | Replace Line Trap at Gore  | APS (100%)                                |
| b1392                              | Replace structure on Belmont – Trissler 138 kV line                                    | APS (100%)                                |
| b1393                              | Replace structures Kingwood – Pruntytown 138 kV line                                   | APS (100%)                                |
| b1395                              | Upgrade Terminal Equipment at Kittanning   | APS (100%)                                |
| b1401                              | Change reclosing on Pruntytown 138 kV breaker ‘P-16’ to 1 shot at 15 seconds           | APS (100%)                                |
| b1402                              | Change reclosing on Rivesville 138 kV breaker ‘Pruntytown #34’ to 1 shot at 15 seconds | APS (100%)                                |
| b1403                              | Change reclosing on Yukon 138 kV breaker ‘Y21 Shepler’ to 1 shot at 15 seconds         | APS (100%)                                |
| b1404                              | Replace the Kiski Valley 138 kV breaker ‘Vandergrift’ with a 40 kA breaker             | APS (100%)                                |
| b1405                              | Change reclosing on Armstrong 138 kV breaker ‘GARETTRJCT’ at 1 shot at 15 seconds      | APS (100%)                                |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b1406                              | Change reclosing on Armstrong 138 kV breaker 'KITTANNING' to 1 shot at 15 seconds | APS (100%)   |
| b1407                              | Change reclosing on Armstrong 138 kV breaker 'BURMA' to 1 shot at 15 seconds      | APS (100%)   |
| b1408                              | Replace the Weirton 138 kV breaker 'Tidd 224' with a 40 kA breaker                | APS (100%)   |
| b1409                              | Replace the Cabot 138 kV breaker 'C9 Kiski Valley' with a 40 kA breaker           | APS (100%)   |
| b1507.2                            | Terminal Equipment upgrade at Doubs substation                                    | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP<br><del>(13.68)</del> 14.29% / APS<br><del>(5.765.82%)</del> / ATSI <del>(8.047.49%)</del><br>/ BGE <del>(4.114.01%)</del> / ComEd<br><del>(13.39)</del> 14.06% / Dayton<br><del>(2.122.03%)</del> / DEOK<br><del>(3.253.21%)</del> / DL <del>(1.711.59%)</del> /<br>DPL <del>(2.602.55%)</del> / Dominion<br><del>(13.32)</del> 13.89% / EKPC<br><del>(1.892.35%)</del> / JCPL <del>(3.863.59%)</del><br>/ ME <del>(1.901.81%)</del> / NEPTUNE*<br>(0.42%) / OVEC <del>(0.080.06%)</del> /<br>PECO <del>(5.405.11%)</del> / PENELEC<br><del>(1.781.73%)</del> / PEPCO<br><del>(3.673.68%)</del> / PPL <del>(4.724.43%)</del> /<br>PSEG <del>(6.395.99%)</del> / RE<br><del>(0.260.24%)</del> |
|                                    |   | <b>DFAX Allocation:</b><br>APS <del>(16.11)</del> 21.30% / BGE<br><del>(13.32)</del> 26.62% / Dominion<br><del>(55.42)</del> 64.59% / PEPCO<br><del>(15.15)</del> 7.49%  |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b1507.3                            | Mt. Storm – Doubs transmission line rebuild in Maryland – Total line mileage for APS is 2.71 miles | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP<br/> (<del>13.68</del><u>14.29</u>%) / APS<br/> (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%)<br/> / BGE (<del>4.11</del><u>4.01</u>%) / ComEd<br/> (<del>13.39</del><u>14.06</u>%) / Dayton<br/> (<del>2.12</del><u>2.03</u>%) / DEOK<br/> (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) /<br/> DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/> (<del>13.32</del><u>13.89</u>%) / EKPC<br/> (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%)<br/> / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE*<br/> (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) /<br/> PECO (<del>5.40</del><u>5.11</u>%) / PENELEC<br/> (<del>1.78</del><u>1.73</u>%) / PEPCO<br/> (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) /<br/> PSEG (<del>6.39</del><u>5.99</u>%) / RE<br/> (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> APS (<del>16.11</del><u>21.30</u>%) / BGE<br/> (<del>13.32</del><u>6.62</u>%) / Dominion<br/> (<del>55.42</del><u>64.59</u>%) / PEPCO<br/> (<del>15.15</del><u>7.49</u>%)</p> |
| b1510                              | Install 59.4 MVAR capacitor at Waverly   | APS (100%)   |
| b1672                              | Install a 230 kV breaker at Carbon Center  | APS (100%)   |
| b0539                              | Replace Doubs circuit breaker DJ11   | APS (100%)   |
| b0540                              | Replace Doubs circuit breaker DJ12   | APS (100%)   |
| b0541                              | Replace Doubs circuit breaker DJ13   | APS (100%)   |
| b0542                              | Replace Doubs circuit breaker DJ20   | APS (100%)   |
| b0543                              | Replace Doubs circuit breaker DJ21   | APS (100%)   |
| b0544                              | Remove instantaneous reclose from Eastalco circuit breaker D-26                                    | APS (100%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                      | Responsible Customer(s)   |
|------------------------------------|---|---|
| b0545                              | Remove instantaneous reclose from Eastalco circuit breaker D-28 | APS (100%)  |
| b0559                              | Install 200 MVAR capacitor at Meadow Brook 500 kV substation    | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.76</del>5.82%) / ATSI (<del>8.04</del>7.49%) / BGE (<del>4.11</del>4.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.12</del>2.03%) / DEOK (<del>3.25</del>3.21%) / DL (<del>1.71</del>1.59%) / DPL (<del>2.60</del>2.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.89</del>2.35%) / JCPL (<del>3.86</del>3.59%) / ME (<del>1.90</del>1.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del>0.06%) / PECO (<del>5.40</del>5.11%) / PENELEC (<del>1.78</del>1.73%) / PEPCO (<del>3.67</del>3.68%) / PPL (<del>4.72</del>4.43%) / PSEG (<del>6.39</del>5.99%) / RE (<del>0.26</del>0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>22.57</del>21.84%) / BGE (<del>7.27</del>7.08%) / Dominion (<del>56.77</del>60.14%) / PEPCO (<del>13.39</del>10.94%)</p> |
| b0560                              | Install 250 MVAR capacitor at Kempton 500 kV substation         | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.76</del>5.82%) / ATSI (<del>8.04</del>7.49%) / BGE (<del>4.11</del>4.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.12</del>2.03%) / DEOK (<del>3.25</del>3.21%) / DL (<del>1.71</del>1.59%) / DPL (<del>2.60</del>2.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.89</del>2.35%) / JCPL (<del>3.86</del>3.59%) / ME (<del>1.90</del>1.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del>0.06%) / PECO (<del>5.40</del>5.11%) / PENELEC (<del>1.78</del>1.73%) / PEPCO (<del>3.67</del>3.68%) / PPL (<del>4.72</del>4.43%) / PSEG (<del>6.39</del>5.99%) / RE (<del>0.26</del>0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     AEC (5.01%) / AEP (4.39%) / APS (9.26%) / BGE (4.43%) / DL (0.02%) /</p>   |

|  |  |  |  |
|--|--|--|--|
|  |  |  | DPL (6.91%) / Dominion (10.82%) /<br>JCPL (11.64%) / ME (2.94%) /<br>NEPTUNE* (1.12%) / PECO (14.51%)<br>/ PEPCO (6.11%) / PPL (6.39%) /<br>PSEG (15.86%) / RE (0.59%) |
|--|--|--|--|

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b1803                              | Build a 300 MVAR Switched Shunt at Doubs 500 kV and increase (~50 MVAR) in size the existing Switched Shunt at Doubs 500 kV | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.76</del>5.82%) / ATSI (<del>8.04</del>7.49%) / BGE (4.114.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.12</del>2.03%) / DEOK (<del>3.25</del>3.21%) / DL (<del>4.71</del>1.59%) / DPL (<del>2.60</del>2.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.89</del>2.35%) / JCPL (<del>3.86</del>3.59%) / ME (<del>1.90</del>1.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del>0.06%) / PECO (<del>5.40</del>5.11%) / PENELEC (<del>1.78</del>1.73%) / PEPCO (<del>3.67</del>3.68%) / PPL (<del>4.72</del>4.43%) / PSEG (<del>6.39</del>5.99%) / RE (<del>0.26</del>0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>16.11</del>21.30%) / BGE (<del>13.32</del>6.62%) / Dominion (<del>55.42</del>64.59%) / PEPCO (<del>15.15</del>7.49%)</p> |
| b1804                              | Install a new 600 MVAR SVC at Meadowbrook 500 kV  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.76</del>5.82%) / ATSI (<del>8.04</del>7.49%) / BGE (4.114.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.12</del>2.03%) / DEOK (<del>3.25</del>3.21%) / DL (<del>4.71</del>1.59%) / DPL (<del>2.60</del>2.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.89</del>2.35%) / JCPL (<del>3.86</del>3.59%) / ME (<del>1.90</del>1.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del>0.06%) / PECO (<del>5.40</del>5.11%) / PENELEC (<del>1.78</del>1.73%) / PEPCO (<del>3.67</del>3.68%) / PPL (<del>4.72</del>4.43%) /</p>  |

|         |  |  |  |
|---------|--|--|--|
|         |  |  | PSEG ( <del>6.395.99%</del> ) / RE<br>( <del>0.260.24%</del> )   |
|         |  |  | <b>DFAX Allocation:</b><br>APS ( <del>22.5721.84%</del> ) / BGE<br>( <del>7.277.08%</del> ) / Dominion<br>( <del>56.7760.14%</del> ) / PEPCO<br>( <del>13.3910.94%</del> ) |
| b1816.1 | Replace relaying at the<br>Mt. Airy substation on<br>the Carroll - Mt. Airy<br>230 kV line |  | APS (100%)   |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s) |
|--|----------------------------|-------------------------|
| <p>b1816.2</p> <p>Adjust the control settings of all existing capacitors at Mt Airy 34.5 kV, Monocacy 138 kV, Ringgold 138 kV served by Potomac Edison's Eastern 230 kV network to ensure that all units will be on during the identified N-1-1 contingencies</p>  |                            | <p>APS (100%)</p>       |
| <p>b1816.3</p> <p>Replace existing unidirectional LTC controller on the No. 4, 230/138 kV transformer at Carroll substation with a bidirectional unit</p>  |                            | <p>APS (100%)</p>       |
| <p>b1816.4</p> <p>Isolate and bypass the 138 kV reactor at Germantown Substation</p>   |                            | <p>APS (100%)</p>       |
| <p>b1816.6</p> <p>Replace 336.4 ACSR conductor on the Catoctin - Carroll 138 kV line using 556.5 ACSR (26/7) or equivalent on existing structures (12.7 miles), 800 A wave traps at Carroll and Catoctin with 1200 A units, and 556.5 ACSR SCCIR (Sub-conductor) line risers and bus traps with 795 ACSR or equivalent</p> |                            | <p>APS (100%)</p>       |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1822                              | Replace the 1200 A wave trap, line risers, breaker risers with 1600 A capacity terminal equipment at Reid 138 kV SS | APS (100%)              |
| b1823                              | Replace the 800 A wave trap with a 1200 A wave trap at Millville 138 kV substation                                  | APS (100%)              |
| b1824                              | Reconductor Grant Point - Guilford 138 kV line approximately 8 miles of 556 ACSR with 795 ACSR                      | APS (100%)              |
| b1825                              | Replace the 800 Amp line trap at Butler 138 kV Sub on the Cabot East 138 kV line                                    | APS (100%)              |
| b1826                              | Change the CT ratio at Double Toll Gate 138 kV SS on MDT line   | APS (100%)              |
| b1827                              | Change the CT ratio at Double Toll Gate 138 kV SS on MBG line   | APS (100%)              |
| b1828.1                            | Reconductor the Bartonville – Stephenson 3.03 mile 138 kV line of 556 ACSR with 795 ACSR                            | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1828.2                            | Reconductor the Stonewall – Stephenson 2.08 mile 138 kV line of 556 ACSR with 795 ACSR  | APS (100%)              |
| b1829                              | Replace the existing 138 kV 556.5 ACSR substation conductor risers with 954 ACSR at the Redbud 138 kV substation, including but not limited to the line side disconnect leads                               | APS (100%)              |
| b1830                              | Replace 1200 A wave trap and 1024 ACAR breaker risers at Halfway 138 kV substation, and replace 1024 ACAR breaker risers at Paramount 138 kV substation   | APS (100%)              |
| b1832                              | Replace the 1200 A line side and bus side disconnect switches with 1600 A switches, replace bus side, line side, and disconnect leads at Lime Kiln SS on the Doubs - Lime Kiln 1 (207) 230 kV line terminal | APS (100%)              |
| b1833                              | Replace the 1200 A line side and bus side disconnect switches with 1600 A switches, replace bus side, line side, and disconnect leads at Lime Kiln SS on the Doubs - Lime Kiln 2 (231) 230 kV line terminal | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b1835                              | Reconductor 14.3 miles of 556 ACSR with 795 ACSR from Old Chapel to Millville 138 kV and upgrade line risers at Old Chapel 138 kV and Millville 138 kV and replace 1200 A wave trap at Millville 138 kV | APS (37.68%) / Dominion (34.46%) / PEPCO (13.69%) / BGE (11.45%) / ME (2.01%) / PENELEC (0.53%) / DL (0.18%) |
| b1836                              | Replace 1200 A wave trap with 1600 A wave trap at Reid 138 kV SS  | APS (100%)   |
| b1837                              | Replace 750 CU breaker risers with 795 ACSR at Marlowe 138 kV and replace 1200 A wave traps with 1600 A wave traps at Marlowe 138 kV and Bedington 138 kV   | APS (100%)   |
| b1838                              | Replace the 1200 A Bedington 138 kV line air switch and the 1200 A 138 kV bus tie air switch at Nipetown 138 kV with 1600 A switches  | APS (100%)   |
| b1839                              | Install additional 33 MVAR capacitors at Grand Point 138 kV SS and Guildford 138 kV SS  | APS (100%)   |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b1840                              | Construct a 138 kV line between Buckhannon and Weston 138 kV substations  | APS (100%)  |
| b1902                              | Replace line trap at Stonewall on the Stephenson 138 kV line terminal   | APS (100%)  |
| b1941                              | Loop the Homer City- Handsome Lake 345 kV line into the Armstrong substation and install a 345/138 kV transformer at Armstrong          | APS (67.86%) / PENELEC (32.14%)   |
| b1942                              | Change the CT ratio at Millville to improve the Millville – Old Chapel 138 kV line ratings  | APS (100%)  |
| b1964                              | Convert Moshannon substation to a 4 breaker 230 kV ring bus   | APS (41.06%) / DPL (6.68%) / JCPL (5.48%) / ME (10.70%) / NEPTUNE* (0.53%) / PECO (15.53%) / PPL (20.02%) |
| b1965                              | Install a 44 MVAR 138 kV capacitor at Luxor substation  | APS (100%)  |
| b1986                              | Upgrade the AP portion of the Elrama – Mitchell 138 kV line by replace breaker risers on the Mitchell 138 kV bus on the Elrama terminal | APS (100%)  |
| b1987                              | Reconductor the Osage-Collins Ferry 138 kV line with 795 ACSS. Upgrade terminal equipment at Osage and Collins Ferry                    | APS (100%)  |

\* Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1988                              | Raise structures between Lake Lynn and West Run to eliminate the clearance de-rates on the West Run – Lake Lynn 138 kV line         | APS (100%)              |
| b1989                              | Raise structures between Collins Ferry and West Run to eliminate the clearance de-rates on the Collins Ferry - West Run 138 kV line | APS (100%)              |
| b2095                              | Replace Weirt 138 kV breaker 'S-TORONTO226' with 63 kA rated breaker  | APS (100%)              |
| b2096                              | Revise the reclosing of Weirt 138 kV breaker '2&5 XFMR'   | APS (100%)              |
| b2097                              | Replace Ridgeley 138 kV breaker '#2 XFMR OCB'   | APS (100%)              |
| b2098                              | Revise the reclosing of Ridgeley 138 kV breaker 'AR3' with 40 kA rated breaker  | APS (100%)              |
| b2099                              | Revise the reclosing of Ridgeley 138 kV breaker 'RC1'   | APS (100%)              |
| b2100                              | Replace Ridgeley 138 kV breaker 'WC4' with 40 kA rated breaker  | APS (100%)              |
| b2101                              | Replace Ridgeley 138 kV breaker '1 XFMR OCB' with 40 kA rated breaker   | APS (100%)              |
| b2102                              | Replace Armstrong 138 kV breaker 'GARETTRJCT' with 40 kA rated breaker  | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2103                              | Replace Armstrong 138 kV breaker 'BURMA' with 40 kA rated breaker              | APS (100%)              |
| b2104                              | Replace Armstrong 138 kV breaker 'KITTANNING' with 40 kA rated breaker         | APS (100%)              |
| b2105                              | Replace Armstrong 138 kV breaker 'KISSINGERJCT' with 40 kA rated breaker       | APS (100%)              |
| b2106                              | Replace Wylie Ridge 345 kV breaker 'WK-1' with 63 kA rated breaker             | APS (100%)              |
| b2107                              | Replace Wylie Ridge 345 kV breaker 'WK-2' with 63 kA rated breaker             | APS (100%)              |
| b2108                              | Replace Wylie Ridge 345 kV breaker 'WK-3' with 63 kA rated breaker             | APS (100%)              |
| b2109                              | Replace Wylie Ridge 345 kV breaker 'WK-4' with 63 kA rated breaker             | APS (100%)              |
| b2110                              | Replace Wylie Ridge 345 kV breaker 'WK-6' with 63 kA rated breaker             | APS (100%)              |
| b2111                              | Replace Wylie Ridge 138 kV breaker 'WK-7' with 63 kA rated breaker             | APS (100%)              |
| b2112                              | Replace Wylie Ridge 345 kV breaker 'WK-5'                                      | APS (100%)              |
| b2113                              | Replace Weirton 138 kV breaker 'NO 6 XFMR' with 63 kA rated breaker            | APS (100%)              |
| b2114                              | Replace Armstrong 138 kV breaker 'Bus-Tie' (Status On-Hold pending retirement) | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2124.1                            | Add a new 138 kV line exit   | APS (100%)              |
| b2124.2                            | Construct a 138 kV ring bus and install a 138/69 kV autotransformer  | APS (100%)              |
| b2124.3                            | Add new 138 kV line exit and install a 138/25 kV transformer   | APS (100%)              |
| b2124.4                            | Construct approximately 5.5 miles of 138 kV line   | APS (100%)              |
| b2124.5                            | Convert approximately 7.5 miles of 69 kV to 138 kV   | APS (100%)              |
| b2156                              | Install a 75 MVAR 230 kV capacitor at Shingletown Substation   | APS (100%)              |
| b2165                              | Replace 800A wave trap at Stonewall with a 1200 A wave trap  | APS (100%)              |
| b2166                              | Reconductor the Millville – Sleepy Hollow 138 kV 4.25 miles of 556 ACSR with 795 ACSR, upgrade line risers at Sleepy Hollow, and change 1200 A CT tap at Millville to 800  | APS (100%)              |
| b2168                              | For Grassy Falls 138 kV Capacitor bank adjust turn-on voltage to 1.0 pu with a high limit of 1.04 pu, For Crupperneck and Powell Mountain 138 kV Capacitor Banks adjust turn-on voltage to 1.01 pu with a high limit of 1.035 pu | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2169                              | Replace/Raise structures on the Yukon-Smithton 138 kV line section to eliminate clearance de-rate            | APS (100%)              |
| b2170                              | Replace/Raise structures on the Smithton-Shepler Hill Jct 138 kV line section to eliminate clearance de-rate | APS (100%)              |
| b2171                              | Replace/Raise structures on the Parsons-William 138 kV line section to eliminate clearance de-rate           | APS (100%)              |
| b2172                              | Replace/Raise structures on the Parsons - Loughs Lane 138 kV line section to eliminate clearance de-rate     | APS (100%)              |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix  
Section 25 – Keystone Appalachian  
Transmission Co.

Version 0.0.0  
Effective January 1, 2024  
(Accepted in Docket No. ER24-284-000)

**SCHEDULE 12 – APPENDIX**

**(25) Keystone Appalachian Transmission Company**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|                                      |  |  |  |
|--------------------------------------|--|--|--|
| <p align="center"><u>b0347.1</u></p> | <p align="center"><u>Build new Mt. Storm – 502 Junction 500 kV circuit</u></p> | <p align="center"><u>As specified under the procedures detailed in Attachment H-18B, Section 1.b</u></p> | <p align="center"><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <p align="center"><b><u>DFAX Allocation:</u></b><br/> <u>APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</u></p> |
| <p align="center"><u>b0347.3</u></p> | <p align="center"><u>Build new 502 Junction 500 kV substation</u></p>          | <p align="center"><u>As specified under the procedures detailed in Attachment H-18B, Section 1.b</u></p> | <p align="center"><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <p align="center"><b><u>DFAX Allocation:</u></b><br/> <u>APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</u></p> |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                        |   |  |  |
|------------------------|---|--|--|
| <p><u>b0347.10</u></p> | <p><u>Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-1</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</u></p> |
| <p><u>b0347.11</u></p> | <p><u>Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-3</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</u></p> |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                        |   |  |  |
|------------------------|---|--|--|
| <p><u>b0347.12</u></p> | <p><u>Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-4</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</u></p> |
| <p><u>b0347.13</u></p> | <p><u>Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-6</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</u></p> |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

**Required Transmission Enhancements   Annual Revenue Requirement   Responsible Customer(s)**

|                        |   |  |  |
|------------------------|---|--|--|
| <p><u>b0347.14</u></p> | <p><u>Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-7</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</u></p> |
| <p><u>b0347.15</u></p> | <p><u>Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-9</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</u></p> |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                 |  |  |   |
|-----------------|--|--|---|
| <u>b0347.16</u> | <u>Upgrade (per ABB inspection) Harrison 500 kV breaker 'HL-3'</u> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> |
|                 |  |  | <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (28.94%) / BGE (13.78%) / Dominion (32.18%) / PEPCO (25.10%)</u></p>  |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

|                | <u>Required Transmission Enhancements</u>  | <u>Annual Revenue Requirement</u> | <u>Responsible Customer(s)</u>   |
|----------------|--|-----------------------------------|--|
| <u>b0406.1</u> | <u>Replace Mitchell 138 kV breaker “#4 bank”</u>   |                                   | <u>APS (100%)</u>  |
| <u>b0406.2</u> | <u>Replace Mitchell 138 kV breaker “#5 bank”</u>   |                                   | <u>APS (100%)</u>  |
| <u>b0406.3</u> | <u>Replace Mitchell 138 kV breaker “#2 transf”</u>   |                                   | <u>APS (100%)</u>  |
| <u>b0406.4</u> | <u>Replace Mitchell 138 kV breaker “#3 bank”</u>   |                                   | <u>APS (100%)</u>  |
| <u>b0406.5</u> | <u>Replace Mitchell 138 kV breaker “Charlerio #2”</u>  |                                   | <u>APS (100%)</u>  |
| <u>b0406.6</u> | <u>Replace Mitchell 138 kV breaker “Charlerio #1”</u>  |                                   | <u>APS (100%)</u>  |
| <u>b0406.7</u> | <u>Replace Mitchell 138 kV breaker “Shepler Hill Jct”</u>  |                                   | <u>APS (100%)</u>  |
| <u>b0406.8</u> | <u>Replace Mitchell 138 kV breaker “Union Jct”</u>   |                                   | <u>APS (100%)</u>  |
| <u>b0406.9</u> | <u>Replace Mitchell 138 kV breaker “#1-2 138 kV bus tie”</u>   |                                   | <u>APS (100%)</u>  |
| <u>b0417</u>   | <u>Reconductor Mitchell – Shepler Hill Junction 138 kV with 954 ACSR</u>   |                                   | <u>APS (100%)</u>  |
| <u>b0418</u>   | <u>Install a breaker failure auto-restoration scheme at Cabot 500 kV for the failure of the #6 breaker</u>               |                                   | <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u> |
| <u>b0460</u>   | <u>Raise limiting structures on Albright – Bethelboro 138 kV to raise the rating to 175 MVA normal 214 MVA emergency</u> |                                   | <u>APS (100%)</u>  |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|              |   |  |                   |
|--------------|---|--|-------------------|
| <u>b0535</u> | <u>Install a 44 MVAR capacitor on Dutch Fork 138 kV</u>   |  | <u>APS (100%)</u> |
| <u>b0584</u> | <u>Install 33 MVAR 138 kV capacitor at Necessity 138 kV</u>   |  | <u>APS (100%)</u> |
| <u>b0585</u> | <u>Increase Cecil 138 kV capacitor size to 44 MVAR, replace five 138 kV breakers at Cecil due to increased short circuit fault duty as a result of the addition of the Prexy substation</u> |  | <u>APS (100%)</u> |
| <u>b0586</u> | <u>Increase Whiteley 138 kV capacitor size to 44 MVAR</u>   |  | <u>APS (100%)</u> |
| <u>b0587</u> | <u>Reconductor AP portion of Tidd – Carnegie 138 kV and Carnegie – Weirton 138 kV with 954 ACSR</u>   |  | <u>APS (100%)</u> |
| <u>b0590</u> | <u>Replace #1 and #2 breakers at Charleroi 138 kV</u>   |  | <u>APS (100%)</u> |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|              |  |  |                   |
|--------------|--|--|-------------------|
| <u>b0673</u> | <u>Rebuild Elko – Carbon Center Junction using 230 kV construction</u> |  | <u>APS (100%)</u> |
| <u>b0681</u> | <u>Replace 600/5 CT's at Franklin 138 kV</u>                           |  | <u>APS (100%)</u> |
| <u>b0682</u> | <u>Replace 600/5 CT's at Whiteley 138 kV</u>                           |  | <u>APS (100%)</u> |
| <u>b0684</u> | <u>Reconductor Guilford – South Chambersburg with 954 ACSR</u>         |  | <u>APS (100%)</u> |

**Keystone Appalachian Transmission Company (cont.)**

**Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)**

|              |  |  |   |
|--------------|--|--|---|
| <u>b0704</u> | <u>Install a third Cabot 500/138 kV transformer</u>    |  | <u>APS (74.36%) / DL (2.73%)<br/>PENELEC (22.91%)</u> |
| <u>b0942</u> | <u>Replace Butler 138 kV breaker '#1 BANK'</u>         |  | <u>APS (100%)</u>                                     |
| <u>b0943</u> | <u>Replace Butler 138 kV breaker '#2 BANK'</u>         |  | <u>APS (100%)</u>                                     |
| <u>b0944</u> | <u>Replace Yukon 138 kV breaker 'Y-8'</u>              |  | <u>APS (100%)</u>                                     |
| <u>b0945</u> | <u>Replace Yukon 138 kV breaker 'Y-3'</u>              |  | <u>APS (100%)</u>                                     |
| <u>b0946</u> | <u>Replace Yukon 138 kV breaker 'Y-1'</u>              |  | <u>APS (100%)</u>                                     |
| <u>b0947</u> | <u>Replace Yukon 138 kV breaker 'Y-5'</u>              |  | <u>APS (100%)</u>                                     |
| <u>b0948</u> | <u>Replace Yukon 138 kV breaker 'Y-2'</u>              |  | <u>APS (100%)</u>                                     |
| <u>b0949</u> | <u>Replace Yukon 138 kV breaker 'Y-19'</u>             |  | <u>APS (100%)</u>                                     |
| <u>b0950</u> | <u>Replace Yukon 138 kV breaker 'Y-4'</u>              |  | <u>APS (100%)</u>                                     |
| <u>b0951</u> | <u>Replace Yukon 138 kV breaker 'Y-9'</u>              |  | <u>APS (100%)</u>                                     |
| <u>b0952</u> | <u>Replace Yukon 138 kV breaker 'Y-11'</u>             |  | <u>APS (100%)</u>                                     |
| <u>b0953</u> | <u>Replace Yukon 138 kV breaker 'Y-13'</u>             |  | <u>APS (100%)</u>                                     |
| <u>b0954</u> | <u>Replace Charleroi 138 kV breaker '#1 XFMR BANK'</u> |  | <u>APS (100%)</u>                                     |

**Keystone Appalachian Transmission Company (cont.)**

Required Transmission Enhancements   Annual Revenue Requirement   Responsible Customer(s)

|              |  |  |                   |
|--------------|--|--|-------------------|
| <u>b0955</u> | <u>Replace Yukon 138 kV breaker 'Y-7'</u>              |  | <u>APS (100%)</u> |
| <u>b0959</u> | <u>Replace Charleroi 138 kV breaker '#2 XFMR BANK'</u> |  | <u>APS (100%)</u> |
| <u>b0962</u> | <u>Replace Yukon 138 kV breaker 'Y-18'</u>             |  | <u>APS (100%)</u> |
| <u>b0963</u> | <u>Replace Yukon 138 kV breaker 'Y-10'</u>             |  | <u>APS (100%)</u> |
| <u>b0965</u> | <u>Replace Springdale 138 kV breaker '138E'</u>        |  | <u>APS (100%)</u> |
| <u>b0969</u> | <u>Replace Springdale 138 kV breaker '138C'</u>        |  | <u>APS (100%)</u> |
| <u>b0971</u> | <u>Replace Springdale 138 kV breaker '138F'</u>        |  | <u>APS (100%)</u> |
| <u>b0973</u> | <u>Replace Springdale 138 kV breaker '138G'</u>        |  | <u>APS (100%)</u> |
| <u>b0974</u> | <u>Replace Springdale 138 kV breaker '138V'</u>        |  | <u>APS (100%)</u> |
| <u>b0975</u> | <u>Replace Armstrong 138 kV breaker 'BROOKVILLE'</u>   |  | <u>APS (100%)</u> |
| <u>b0976</u> | <u>Replace Springdale 138 kV breaker '138P'</u>        |  | <u>APS (100%)</u> |
| <u>b0978</u> | <u>Replace Springdale 138 kV breaker '138U'</u>        |  | <u>APS (100%)</u> |
| <u>b0979</u> | <u>Replace Springdale 138 kV breaker '138D'</u>        |  | <u>APS (100%)</u> |
| <u>b0980</u> | <u>Replace Springdale 138 kV breaker '138R'</u>        |  | <u>APS (100%)</u> |
| <u>b0981</u> | <u>Replace Yukon 138 kV breaker 'Y-12'</u>             |  | <u>APS (100%)</u> |
| <u>b0982</u> | <u>Replace Yukon 138 kV breaker 'Y-17'</u>             |  | <u>APS (100%)</u> |
| <u>b0983</u> | <u>Replace Yukon 138 kV breaker 'Y-14'</u>             |  | <u>APS (100%)</u> |

**Keystone Appalachian Transmission Company (cont.)**

|                | <u>Required Transmission Enhancements</u>   | <u>Annual Revenue Requirement</u> | <u>Responsible Customer(s)</u>   |
|----------------|---|-----------------------------------|----------------------------------|
| <u>b0986</u>   | <u>Replace Armstrong 138 kV breaker 'RESERVE BUS'</u>   |                                   | <u>APS (100%)</u>                |
| <u>b0987</u>   | <u>Replace Yukon 138 kV breaker 'Y-16'</u>  |                                   | <u>APS (100%)</u>                |
| <u>b0988</u>   | <u>Replace Springdale 138 kV breaker '138T'</u>   |                                   | <u>APS (100%)</u>                |
| <u>b0990</u>   | <u>Change reclosing on Cabot 138 kV breaker 'C-9'</u>   |                                   | <u>APS (100%)</u>                |
| <u>b0997</u>   | <u>Change reclosing on Cabot 138 kV breaker 'C-4'</u>   |                                   | <u>APS (100%)</u>                |
| <u>b0998</u>   | <u>Change reclosing on Cabot 138 kV breaker 'C-1'</u>   |                                   | <u>APS (100%)</u>                |
| <u>b1022.3</u> | <u>Add static capacitors at Smith 138 kV</u>  |                                   | <u>APS (96.98%) / DL (3.02%)</u> |
| <u>b1022.4</u> | <u>Add static capacitors at North Fayette 138 kV</u>  |                                   | <u>APS (96.98%) / DL (3.02%)</u> |
| <u>b1022.5</u> | <u>Add static capacitors at South Fayette 138 kV</u>  |                                   | <u>APS (96.98%) / DL (3.02%)</u> |
| <u>b1022.6</u> | <u>Add static capacitors at Manifold 138 kV</u>   |                                   | <u>APS (96.98%) / DL (3.02%)</u> |
| <u>b1022.7</u> | <u>Add static capacitors at Houston 138 kV</u>  |                                   | <u>APS (96.98%) / DL (3.02%)</u> |
| <u>b1023.1</u> | <u>Install a 500/138 kV transformer at 502 Junction</u>   |                                   | <u>APS (100%)</u>                |
| <u>b1023.2</u> | <u>Construct a new Franklin - 502 Junction 138 kV line including a rebuild of the Whiteley - Franklin 138 kV line to double circuit</u> |                                   | <u>APS (100%)</u>                |
| <u>b1027</u>   | <u>Increase the size of the shunt capacitors at Enon 138 kV</u>   |                                   | <u>APS (100%)</u>                |
| <u>b1159</u>   | <u>Replace Peters 138 kV breaker 'Bethel P OCB'</u>   |                                   | <u>APS (100%)</u>                |
| <u>b1160</u>   | <u>Replace Peters 138 kV breaker 'Cecil OCB'</u>  |                                   | <u>APS (100%)</u>                |
| <u>b1161</u>   | <u>Replace Peters 138 kV breaker 'Union JctOCB'</u>   |                                   | <u>APS (100%)</u>                |
| <u>b1164</u>   | <u>Replace Cecil 138 kV breaker 'Enlow OCB'</u>   |                                   | <u>APS (100%)</u>                |

**Keystone Appalachian Transmission Company (cont.)**

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

|              |  |  |  |
|--------------|--|--|--|
| <u>b1165</u> | <u>Replace Cecil 138 kV breaker ‘South Fayette’</u>                                      |  | <u>APS (100%)</u>                                  |
| <u>b1243</u> | <u>Install a 138 kV capacitor at Potter Substation</u>                                   |  | <u>APS (100%)</u>                                  |
| <u>b1261</u> | <u>Replace Butler 138 kV breaker ‘1-2 BUS 138’</u>                                       |  | <u>APS (100%)</u>                                  |
| <u>b1383</u> | <u>Install 2nd 500/138 kV transformer at 502 Junction</u>                                |  | <u>APS (93.27%) / DL (5.39%) / PENELEC (1.34%)</u> |
| <u>b1403</u> | <u>Change reclosing on Yukon 138 kV breaker ‘Y21 Shepler’ to 1 shot at 15 seconds</u>    |  | <u>APS (100%)</u>                                  |
| <u>b1404</u> | <u>Replace the Kiski Valley 138 kV breaker ‘Vandergrift’ with a 40 kA breaker</u>        |  | <u>APS (100%)</u>                                  |
| <u>b1405</u> | <u>Change reclosing on Armstrong 138 kV breaker ‘GARETTRJCT’ at 1 shot at 15 seconds</u> |  | <u>APS (100%)</u>                                  |
| <u>b1406</u> | <u>Change reclosing on Armstrong 138 kV breaker ‘KITTANNING’ to 1 shot at 15 seconds</u> |  | <u>APS (100%)</u>                                  |
| <u>b1407</u> | <u>Change reclosing on Armstrong 138 kV breaker ‘BURMA’ to 1 shot at 15 seconds</u>      |  | <u>APS (100%)</u>                                  |
| <u>b1409</u> | <u>Replace the Cabot 138 kV breaker ‘C9 Kiski Valley’ with a 40 kA breaker</u>           |  | <u>APS (100%)</u>                                  |

**Keystone Appalachian Transmission Company (cont.)**

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

|              |  |  |  |
|--------------|--|--|--|
| <u>b1672</u> | <u>Install a 230 kV breaker at Carbon Center</u>   |  | <u>APS (100%)</u>  |
| <u>b1825</u> | <u>Replace the 800 Amp line trap at Butler 138 kV Sub on the Cabot East 138 kV line</u>  |  | <u>APS (100%)</u>  |
| <u>b1839</u> | <u>Install additional 33 MVAR capacitors at Grand Point 138 kV SS and Guildford 138 kV SS</u>  |  | <u>APS (100%)</u>  |
| <u>b1941</u> | <u>Loop the Homer City-Handsome Lake 345 kV line into the Armstrong substation and install a 345/138 kV transformer at Armstrong</u>           |  | <u>APS (67.86%) / PENELEC (32.14%)</u>   |
| <u>b1964</u> | <u>Convert Moshannon substation to a 4 breaker 230 kV ring bus</u>   |  | <u>APS (41.06%) / DPL (6.68%) / JCPL (5.48%) / ME (10.70%) / NEPTUNE* (0.53%) / PECO (15.53%) / PPL (20.02%)</u> |
| <u>b1965</u> | <u>Install a 44 MVAR 138 kV capacitor at Luxor substation</u>  |  | <u>APS (100%)</u>  |
| <u>b1986</u> | <u>Upgrade the AP portion of the Elrama – Mitchell 138 kV line by replace breaker risers on the Mitchell 138 kV bus on the Elrama terminal</u> |  | <u>APS (100%)</u>  |
| <u>b2102</u> | <u>Replace Armstrong 138 kV breaker 'GARETTRJCT' with 40 kA rated breaker</u>  |  | <u>APS (100%)</u>  |
| <u>b2103</u> | <u>Replace Armstrong 138 kV breaker 'BURMA' with 40 kA rated breaker</u>   |  | <u>APS (100%)</u>  |
| <u>b2104</u> | <u>Replace Armstrong 138 kV breaker 'KITTANNING' with 40 kA rated breaker</u>  |  | <u>APS (100%)</u>  |
| <u>b2105</u> | <u>Replace Armstrong 138 kV breaker 'KISSINGERJCT' with 40 kA rated breaker</u>  |  | <u>APS (100%)</u>  |

\* Neptune Regional Transmission System, LLC

**Keystone Appalachian Transmission Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|                |   |  |                   |
|----------------|---|--|-------------------|
| <u>b2124.3</u> | <u>Add new 138 kV line exit and install a 138/25 kV transformer</u>   |  | <u>APS (100%)</u> |
| <u>b2124.5</u> | <u>Convert approximately 7.5 miles of 69 kV to 138 kV</u>   |  | <u>APS (100%)</u> |
| <u>b2156</u>   | <u>Install a 75 MVAR 230 kV capacitor at Shingletown Substation</u>   |  | <u>APS (100%)</u> |
| <u>b2169</u>   | <u>Replace/Raise structures on the Yukon-Smithton 138 kV line section to eliminate clearance de-rate</u>            |  | <u>APS (100%)</u> |
| <u>b2170</u>   | <u>Replace/Raise structures on the Smithton-Shepler Hill Jct 138 kV line section to eliminate clearance de-rate</u> |  | <u>APS (100%)</u> |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 2 – Baltimore Gas and Electric Co.

Version 23.0.0  
Effective January 1, 2024  
(Accepted in Docket No. ER24-786-000)

**SCHEDULE 12 – APPENDIX A**

**(2) Baltimore Gas and Electric Company**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2219                              | Install a 115 kV tie breaker at Wagner to create a separation from line 110535 and transformer 110-2  | BGE (100%)              |
| b2220                              | Install four 115 kV breakers at Chestnut Hill   | BGE (100%)              |
| b2221                              | Install an SPS to trip approximately 19 MW load at Green St. and Concord  | BGE (100%)              |
| b2307                              | Install a 230/115 kV transformer at Raphael Rd and construct approximately 3 miles of 115 kV line from Raphael Rd. to Joppatowne. Construct a 115 kV three breaker ring at Joppatowne | BGE (100%)              |
| b2308                              | Build approximately 3 miles of 115 kV underground line from Bestgate tap to Waugh Chapel. Create two breaker bay at Waugh Chapel to accommodate the new underground circuit           | BGE (100%)              |
| b2396                              | Build a new Camp Small 115 kV station and install 30 MVAR capacitor   | BGE (100%)              |

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2396.1                            | Install a tie breaker at Mays Chapel 115 kV substation  | BGE (100%)   |
| b2567                              | Upgrade the Riverside 115 kV substation strain bus conductors on circuits 115012 and 115011 with double bundled 1272 ACSR to achieve ratings of 491/577 MVA SN/SE on both transformer leads | BGE (100%)   |
| b2568                              | Reconductor Northwest – Northwest #2 115 kV 110574 substation tie circuit with 2167 ACSR to achieve ratings of 400/462 MVA SN/SE  | BGE (100%)   |
| b2752.6                            | Conastone 230 kV substation tie-in work (install a new circuit breaker at Conastone 230 kV and upgrade any required terminal equipment to terminate the new 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%) / PEPSCO (20.88%) |
| b2752.7                            | Reconductor/Rebuild the two Conastone – Northwest 230 kV lines and upgrade terminal equipment on both ends  | 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%) / PEPSCO (20.88%) |
| b2752.8                            | Replace the Conastone 230 kV ‘2322 B5’ breaker with a 63 kA breaker   | BGE (100%)   |

**Baltimore Gas and Electric Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |   |
|---------|--|--|---|
| b2752.9 | Replace the Conastone 230 kV '2322 B6' breaker with a 63 kA breaker  |  | BGE (100%)  |
| b2766.1 | Upgrade substation equipment at Conastone 500 kV to increase facility rating to 2826 MVA normal and 3525 MVA emergency |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP<br/> (<del>13.68</del><u>14.29</u>%) / APS<br/> (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) /<br/> / BGE (<del>4.11</del><u>4.01</u>%) / ComEd<br/> (<del>13.39</del><u>14.06</u>%) / Dayton<br/> (<del>2.12</del><u>2.03</u>%) / DEOK<br/> (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) /<br/> DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/> (<del>13.32</del><u>13.89</u>%) / EKPC<br/> (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) /<br/> / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE*<br/> (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) /<br/> PECO (<del>5.40</del><u>5.11</u>%) / PENELEC<br/> (<del>1.78</del><u>1.73</u>%) / PEPCO<br/> (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) /<br/> PSEG (<del>6.39</del><u>5.99</u>%) / RE<br/> (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> <del>APS (3.98%) / ATSI (0.03%) /</del><br/> BGE (<del>20.98</del><u>12.36</u>%) / <del>DL</del><br/> (<del>0.01</del>%) / Dominion<br/> (<del>32.06</del><u>24.57</u>%) / DPL<br/> (<del>0.02</del><u>25.17</u>%) / JCPL<br/> (<del>7.05</del><u>7.90</u>%) / NEPTUNE*<br/> (<del>0.81</del><u>0.88</u>%) / PENELEC (<del>1.60</del>%)<br/> / PEPCO (<del>17.70</del><u>12.32</u>%) / <del>PPL</del><br/> (<del>2.72</del>%) / PSEG (<del>14.07</del><u>14.57</u>%) /<br/> RE (<del>0.57</del><u>0.63</u>%)</p> |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2816                              | Re-connect the Crane – Windy Edge 110591 & 110592 115 kV circuits into the Northeast Substation with the addition of a new 115 kV 3-breaker bay | BGE (100%)  |
| b2992.1                            | Reconductor the Conastone to Graceton 230 kV 2323 & 2324 circuits. Replace 7 disconnect switches at Conastone substation                        | AEP (2.25%) / APS (2.58%) / BGE (44.61%) / ComEd (0.51%) / Dayton (0.40%) / DEOK (1.39%) / DL (0.14%) / Dominion (27.05%) / EKPC (0.52%) / PENELEC (0.02%) / PEPCO (20.53%) |
| b2992.2                            | Add Bundle conductor on the Graceton – Bagley – Raphael Road 2305 & 2313 230 kV circuits  | AEP (2.25%) / APS (2.58%) / BGE (44.61%) / ComEd (0.51%) / Dayton (0.40%) / DEOK (1.39%) / DL (0.14%) / Dominion (27.05%) / EKPC (0.52%) / PENELEC (0.02%) / PEPCO (20.53%) |
| b2992.3                            | Replacing short segment of substation conductor on the Windy Edge to Glenarm 110512 115 kV circuit  | AEP (2.25%) / APS (2.58%) / BGE (44.61%) / ComEd (0.51%) / Dayton (0.40%) / DEOK (1.39%) / DL (0.14%) / Dominion (27.05%) / EKPC (0.52%) / PENELEC (0.02%) / PEPCO (20.53%) |
| b2992.4                            | Reconductor the Raphael Road – Northeast 2315 & 2337 230 kV circuits  | AEP (2.25%) / APS (2.58%) / BGE (44.61%) / ComEd (0.51%) / Dayton (0.40%) / DEOK (1.39%) / DL (0.14%) / Dominion (27.05%) / EKPC (0.52%) / PENELEC (0.02%) / PEPCO (20.53%) |
| b3228                              | Replace two (2) relays at Center substation to increase ratings on the Westport to Center 110552 115 kV circuit                                 | BGE (100%)  |
| b3305                              | Replace Pumphrey 230/115 kV transformer   | BGE (100%)  |

**Baltimore Gas and Electric Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |  |
|---------|---|--|--|
| b3668   | Upgrade Windy Edge 115 kV substation conductor to increase ratings of the Windy Edge – Chesco Park 110501 115 kV line   |  | BGE (100%)   |
| b3770   | Rebuild 1.4 miles of existing single circuit 230 kV tower line between BGE's Graceton substation to the Brunner Island PPL tie-line at the MD/PA state line to double circuit steel pole line with one circuit installed to uprate 2303 circuit |  | BGE (99.98%) / ME (0.01%) / PPL (0.01%)  |
| b3771   | Reconductor two (2) 230 kV circuits from Conastone to Northwest #2  |  | BGE (70.70%) / PEPCO (29.30%)  |
| b3780.4 | Peach Bottom to Graceton (BGE) 500 kV transmission line. New rating is 4503 MVA SN/ 5022 MVA SE   |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP<br/> (<del>13.68</del><u>14.29</u>%) / APS<br/> (<del>5.76</del><u>5.82</u>%) / ATSI<br/> (<del>8.04</del><u>7.49</u>%) / BGE<br/> (<del>4.11</del><u>4.01</u>%) / ComEd<br/> (<del>13.39</del><u>14.06</u>%) / Dayton<br/> (<del>2.12</del><u>2.03</u>%) / DEOK<br/> (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%)<br/> / DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/> (<del>13.32</del><u>13.89</u>%) / EKPC<br/> (<del>1.89</del><u>2.35</u>%) / JCPL<br/> (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%)<br/> / NEPTUNE* (0.42%) / OVEC<br/> (<del>0.08</del><u>0.06</u>%) / PECO<br/> (<del>5.40</del><u>5.11</u>%) / PENELEC<br/> (<del>1.78</del><u>1.73</u>%) / PEPCO<br/> (<del>3.67</del><u>3.68</u>%) / PPL<br/> (<del>4.72</del><u>4.43</u>%) / PSEG<br/> (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> |

|  |  |  |  |
|--|--|--|--|
|  |  |  | <p><b>DFAX Allocation:</b><br/>         ATSI (0.03%) / BGE (28.40%)<br/>         / DPL (0.02%) / Dominion<br/>         (33.36%) / JCPL (6.36%) /<br/>         NEPTUNE* (0.73%) / PEPCO<br/>         (17.90%) / PSEG (12.69%) /<br/>         RE (0.51%)</p> |
|--|--|--|--|

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3780.5                            | Build 230 kV Solley Road substation and STATCOM. New STATCOM rating: 350 MVAR. Add 4x 230 kV breakers bays  | BGE (100%)  |
| b3780.6                            | Build 230 kV Granite substation and STATCOM. New STATCOM rating: 350 MVAR. Add 4x 230 kV breaker bays   | BGE (100%)  |
| b3780.7                            | Build Batavia Road 230 kV substation. Add 4x 230 kV breaker bays  | BGE (100%)  |
| b3780.8                            | Graceton 500 kV substation expansion: Add 3x 500 kV breaker bays, two 500/230 kV auto transformers, and one 250 MVAR capacitor. New transformer rating: 1559 MVA SN / 1940 MVA SE. New capacitor rating: 250 MVAR | BGE (81.92%) / PEPCO (18.08%)   |
| b3780.9                            | Build Graceton to Batavia Road 230 kV double circuit line. New rating: 1331 MVA SN/ 1594 MVA SE   | BGE (100%)  |
| b3780.10                           | Install new 350 MVAR capacitor at Conastone 500 kV substation   | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP ( <del>13.68</del> 14.29%) / APS ( <del>5.76</del> 5.82%) / ATSI ( <del>8.04</del> 7.49%) / BGE ( <del>4.11</del> 4.01%) / ComEd ( <del>13.39</del> 14.06%) / Dayton ( <del>2.12</del> 2.03%) / DEOK ( <del>3.25</del> 3.21%) / DL ( <del>1.71</del> 1.59%) / DPL ( <del>2.60</del> 2.55%) / Dominion ( <del>13.32</del> 13.89%) / EKPC ( <del>1.89</del> 2.35%) / JCPL ( <del>3.86</del> 3.59%) / ME ( <del>1.90</del> 1.81%) / NEPTUNE* (0.42%) / OVEC ( <del>0.08</del> 0.06%) / PECO ( <del>5.40</del> 5.11%) / PENELEC ( <del>1.78</del> 1.73%) / PEPCO ( <del>3.67</del> 3.68%) / PPL ( <del>4.72</del> 4.43%) / PSEG ( <del>6.39</del> 5.99%) / RE ( <del>0.26</del> 0.24%) |
|                                    |   | <b>DFAX Allocation:</b><br>BGE (100.00%)  |
| b3780.13                           | Reconductor Batavia Road to Riverside 230 kV line. New rating: 1941 MVA SN / 2181 MVA SE  | BGE (51.24%) / PEPCO (48.76%)   |

\*Neptune Regional Transmission System, LLC

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 2 – Baltimore Gas and Electric Co.

Version 24.0.0  
Effective April 9, 2024  
(Accepted in Docket No. ER24-843-000)

**SCHEDULE 12 – APPENDIX A**

**(2) Baltimore Gas and Electric Company**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2219                              | Install a 115 kV tie breaker at Wagner to create a separation from line 110535 and transformer 110-2  | BGE (100%)              |
| b2220                              | Install four 115 kV breakers at Chestnut Hill   | BGE (100%)              |
| b2221                              | Install an SPS to trip approximately 19 MW load at Green St. and Concord  | BGE (100%)              |
| b2307                              | Install a 230/115 kV transformer at Raphael Rd and construct approximately 3 miles of 115 kV line from Raphael Rd. to Joppatowne. Construct a 115 kV three breaker ring at Joppatowne | BGE (100%)              |
| b2308                              | Build approximately 3 miles of 115 kV underground line from Bestgate tap to Waugh Chapel. Create two breaker bay at Waugh Chapel to accommodate the new underground circuit           | BGE (100%)              |
| b2396                              | Build a new Camp Small 115 kV station and install 30 MVAR capacitor   | BGE (100%)              |

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2396.1                            | Install a tie breaker at Mays Chapel 115 kV substation  | BGE (100%)   |
| b2567                              | Upgrade the Riverside 115 kV substation strain bus conductors on circuits 115012 and 115011 with double bundled 1272 ACSR to achieve ratings of 491/577 MVA SN/SE on both transformer leads | BGE (100%)   |
| b2568                              | Reconductor Northwest – Northwest #2 115 kV 110574 substation tie circuit with 2167 ACSR to achieve ratings of 400/462 MVA SN/SE  | BGE (100%)   |
| b2752.6                            | Conastone 230 kV substation tie-in work (install a new circuit breaker at Conastone 230 kV and upgrade any required terminal equipment to terminate the new 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%) / PEPSCO (20.88%) |
| b2752.7                            | Reconductor/Rebuild the two Conastone – Northwest 230 kV lines and upgrade terminal equipment on both ends  | 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%) / PEPSCO (20.88%) |
| b2752.8                            | Replace the Conastone 230 kV ‘2322 B5’ breaker with a 63 kA breaker   | BGE (100%)   |

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s)  |
|------------------------------------|--|--|--|
| b2752.9                            | Replace the Conastone 230 kV '2322 B6' breaker with a 63 kA breaker  |  | BGE (100%)   |
| b2766.1                            | Upgrade substation equipment at Conastone 500 kV to increase facility rating to 2826 MVA normal and 3525 MVA emergency |  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (3.98%) / ATSI (0.03%) / BGE (20.98%) / DL (0.01%) / Dominion (32.06%) / DPL (0.02%) / JCPL (7.05%) / NEPTUNE* (0.81%) / PEPCO (17.70%) / PPL (2.72%) / PSEG (14.07%) / RE (0.57%)</p> |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |   |
|---------|---|--|---|
| b2816   | Re-connect the Crane – Windy Edge 110591 & 110592 115 kV circuits into the Northeast Substation with the addition of a new 115 kV 3-breaker bay |  | BGE (100%)  |
| b2992.1 | Reconductor the Conastone to Graceton 230 kV 2323 & 2324 circuits. Replace 7 disconnect switches at Conastone substation                        |  | AEP (2.25%) / APS (2.58%) / BGE (44.61%) / ComEd (0.51%) / Dayton (0.40%) / DEOK (1.39%) / DL (0.14%) / Dominion (27.05%) / EKPC (0.52%) / PENELEC (0.02%) / PEPCO (20.53%) |
| b2992.2 | Add Bundle conductor on the Graceton – Bagley – Raphael Road 2305 & 2313 230 kV circuits  |  | AEP (2.25%) / APS (2.58%) / BGE (44.61%) / ComEd (0.51%) / Dayton (0.40%) / DEOK (1.39%) / DL (0.14%) / Dominion (27.05%) / EKPC (0.52%) / PENELEC (0.02%) / PEPCO (20.53%) |
| b2992.3 | Replacing short segment of substation conductor on the Windy Edge to Glenarm 110512 115 kV circuit  |  | AEP (2.25%) / APS (2.58%) / BGE (44.61%) / ComEd (0.51%) / Dayton (0.40%) / DEOK (1.39%) / DL (0.14%) / Dominion (27.05%) / EKPC (0.52%) / PENELEC (0.02%) / PEPCO (20.53%) |
| b2992.4 | Reconductor the Raphael Road – Northeast 2315 & 2337 230 kV circuits  |  | AEP (2.25%) / APS (2.58%) / BGE (44.61%) / ComEd (0.51%) / Dayton (0.40%) / DEOK (1.39%) / DL (0.14%) / Dominion (27.05%) / EKPC (0.52%) / PENELEC (0.02%) / PEPCO (20.53%) |
| b3228   | Replace two (2) relays at Center substation to increase ratings on the Westport to Center 110552 115 kV circuit                                 |  | BGE (100%)  |
| b3305   | Replace Pumphrey 230/115 kV transformer   |  | BGE (100%)  |

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3668                              | Upgrade Windy Edge 115 kV substation conductor to increase ratings of the Windy Edge – Chesco Park 110501 115 kV line   | BGE (100%)  |
| b3770                              | Rebuild 1.4 miles of existing single circuit 230 kV tower line between BGE's Graceton substation to the Brunner Island PPL tie-line at the MD/PA state line to double circuit steel pole line with one circuit installed to uprate 2303 circuit | BGE (99.98%) / ME (0.01%) / PPL (0.01%)   |
| b3771                              | Reconductor two (2) 230 kV circuits from Conastone to Northwest #2  | BGE (70.70%) / PEPCO (29.30%)   |
| b3780.4                            | Peach Bottom to Graceton (BGE) 500 kV transmission line. New rating is 4503 MVA SN/ 5022 MVA SE   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     ATSI (0.03%) / BGE (28.40%) / DPL (0.02%) / Dominion (33.36%) / JCPL (6.36%) / NEPTUNE* (0.73%) / PEPCO (17.90%) / PSEG (12.69%) / RE (0.51%)</p> |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3780.5                            | Build 230 kV Solley Road substation and STATCOM. New STATCOM rating: 350 MVAR. Add 4x 230 kV breakers bays  | BGE (100%)   |
| b3780.6                            | Build 230 kV Granite substation and STATCOM. New STATCOM rating: 350 MVAR. Add 4x 230 kV breaker bays   | BGE (100%)   |
| b3780.7                            | Build Batavia Road 230 kV substation. Add 4x 230 kV breaker bays  | BGE (100%)   |
| b3780.8                            | Graceton 500 kV substation expansion: Add 3x 500 kV breaker bays, two 500/230 kV auto transformers, and one 250 MVAR capacitor. New transformer rating: 1559 MVA SN / 1940 MVA SE. New capacitor rating: 250 MVAR | BGE (81.92%) / PEPCO (18.08%)  |
| b3780.9                            | Build Graceton to Batavia Road 230 kV double circuit line. New rating: 1331 MVA SN/ 1594 MVA SE   | BGE (100%)   |
| b3780.10                           | Install new 350 MVAR capacitor at Conastone 500 kV substation   | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%) |
|                                    |   | <b>DFAX Allocation:</b><br>BGE (100%)  |
| b3780.13                           | Reconductor Batavia Road to Riverside 230 kV line. New rating: 1941 MVA SN / 2181 MVA SE  | BGE (51.24%) / PEPCO (48.76%)  |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|                        |   |  |
|------------------------|---|--|
| <p><u>b3800.4</u></p>  | <p><u>New Otter Creek to Doubs 500 kV line (MD Border - PSEG Demarcation Point). Rebuild and expand existing approximately 6 miles of Otter Creek - Conastone 230 kV line to become a double-circuit 500 kV and 230 kV lines.</u></p> | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (13.16%) / BGE (0.79%) / Dominion (74.28%) / DPL (0.41%) / PECO (0.77%) / PEPCO (10.59%)</u></p> |
| <p><u>b3800.26</u></p> | <p><u>Build High Ridge 500 kV substation - Three bay breaker and half configuration</u></p>   | <p><u>This upgrade ID is only for tracking purpose. Cost allocation details are available from b3800.27 ~ b3800.33</u></p>   |
| <p><u>b3800.27</u></p> | <p><u>High Ridge 500 kV substation (cut into Brighton - Waugh Chapel 500 kV line) - Waugh Chapel side</u></p>   | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>BGE (70.66%) / PEPCO (29.34%)</u></p>  |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                        |   |  |  |
|------------------------|---|--|--|
| <p><u>b3800.28</u></p> | <p><u>High Ridge 500 kV substation (cut into Brighton - Waugh Chapel 500 kV line) - Brighton side</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (0.68%) / BGE (97.41%) / Dominion (1.91%)</u></p>  |
| <p><u>b3800.29</u></p> | <p><u>High Ridge termination for the North Delta - High Ridge 500 kV line</u></p>                         |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>BGE (2.58%) / Dominion (59.28%) / DPL (0.02%) / PEPCO (28.48%) / PSEG (9.24%) / RE (0.40%)</u></p> |
| <p><u>b3800.30</u></p> | <p><u>High Ridge - Install two 500/230 kV transformers</u></p>  |  | <p><u>BGE (62.75%) / PEPCO (37.25%)</u></p>  |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                        |  |   |
|------------------------|--|---|
| <p><u>b3800.32</u></p> | <p><u>Build new North Delta – High Ridge 500 kV line (approximately 59 miles)</u></p>  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>BGE (2.58%) / Dominion (59.28%) / DPL (0.02%) / PEPCO (28.48%) / PSEG (9.24%) / RE (0.40%)</u></p>  |
| <p><u>b3800.34</u></p> | <p><u>Rebuild 5012 (existing Peach Bottom - Conastone) (new Graceton - Conastone) 500 kV line on single circuit structures within existing right-of-way (ROW) and cut into North Delta 500 kV and Graceton 500 kV stations</u></p> | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>BGE (12.36%) / Dominion (24.57%) / DPL (25.17%) / JCPL (7.90%) / NEPTUNE* (0.88%) / PENELEC (1.60%) / PEPCO (12.32%) / PSEG (14.57%) / RE (0.63%)</u></p> |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|                        |   |   |
|------------------------|---|---|
| <p><u>b3800.36</u></p> | <p><u>Rebuild 5012 (existing Peach Bottom - Conastone) (new North Delta - Graceton BGE) 500 kV line on single circuit structures within existing ROW and cut into North Delta 500 kV and Graceton 500 kV stations</u></p> | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>BGE (51.35%) / Dominion (32.44%) / DPL (0.01%) / JCPL (0.01%) / PEPCO (16.17%) / PSEG (0.02%)</u></p>   |
| <p><u>b3800.37</u></p> | <p><u>Replace terminal equipment limitations at Conastone 500 kV - on the existing Peach Bottom — Conastone, future or (new-Graceton — Conastone,) 500 kV line</u></p>  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>BGE (12.36%) / Dominion (24.57%) / DPL (25.17%) / JCPL (7.90%) / NEPTUNE* (0.88%) / PENELEC (1.60%) / PEPCO (12.32%) / PSEG (14.57%) / RE (0.63%)</u></p> |

\*Neptune Regional Transmission System, LLC

**Baltimore Gas and Electric Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|                        |  |  |
|------------------------|--|--|
| <p><u>b3800.41</u></p> | <p><u>Conastone - Brighton 500 kV line (5011 line) - Replace terminal equipment limitations at Conastone 500 kV substation</u></p> | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>BGE (9.65%) / Dominion (63.04%) / DPL (0.02%) / PEPCO (27.29%)</u></p> |
|------------------------|--|--|

\*Neptune Regional Transmission System, LLC

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 3 – Delmarva Power & Light Co.

Version 24.0.0  
Effective January 1, 2024  
(Accepted in Docket No. ER24-786-000)

**SCHEDULE 12 – APPENDIX A**

**(3) Delmarva Power & Light Company**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2288                              | Build a new 138 kV line from Piney Grove – Wattsville   | DPL (100%)  |
| b2395                              | Reconductor the Harmony – Chapel St 138 kV circuit  | DPL (100%)  |
| b2569                              | Replace Terminal equipment at Silverside 69 kV substation   | DPL (100%)  |
| b2633.7                            | Implement high speed relaying utilizing OPGW on Red Lion – Hope Creek 500 kV line   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.42</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPSCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p> |
| b2633.10                           | Interconnect the new Silver Run 230 kV substation with existing Red Lion – Cartanza and Red Lion – Cedar Creek 230 kV lines | AEC (8.01%) / BGE (1.94%) / DPL (12.99%) / JCPL (13.85%) / ME (5.88%) / NEPTUNE* (3.45%) / PECO (17.62%) / PPL (14.85%) / PSEG (20.79%) / RE (0.62%)  |

\*Neptune Regional Transmission System, LLC

**Delmarva Power & Light Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2695   | Rebuild Worcester – Ocean Pine 69 kV ckt. 1 to 1400A capability summer emergency   |  | DPL (100%) |
| b2946   | Convert existing Preston 69 kV substation to DPL’s current design standard of a 3-breaker ring bus   |  | DPL (100%) |
| b2947.1 | Upgrade terminal equipment at DPL’s Naamans substation (Darley - Naamans 69 kV)  |  | DPL (100%) |
| b2947.2 | Reconductor 0.11 mile section of Darley - Naamans 69 kV circuit  |  | DPL (100%) |
| b2948   | Upgrade terminal equipment at DPL’s Silverside Road substation (Dupont Edge Moor – Silver R. 69 kV)  |  | DPL (100%) |
| b2987   | Install a 30 MVAR capacitor bank at DPL’s Cool Springs 69 kV substation. The capacitor bank would be installed in two separate 15 MVAR stages allowing DPL operational flexibility |  | DPL (100%) |
| b3143.1 | Reconductor the Silverside Road – Darley 69 kV circuit   |  | DPL (100%) |
| b3143.2 | Reconductor the Darley – Naamans 69 kV circuit   |  | DPL (100%) |
| b3143.3 | Replace three (3) existing 1200 A disconnect switches with 2000 A disconnect switches and install three (3) new 2000 A disconnect switches at Silverside 69 kV station             |  | DPL (100%) |

**Delmarva Power & Light Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b3143.4 | Replace two (2) 1200 A disconnect switches with 2000 A disconnect switches. Replace existing 954 ACSR and 500 SDCU stranded bus with two (2) 954 ACSR stranded bus. Reconfigure four (4) CTs from 1200 A to 2000 A and install two (2) new 2000 A disconnect switches and two (2) new 954 ACSR stranded bus at Naamans 69 kV station  |  | DPL (100%) |
| b3143.5 | Replace four (4) 1200 A disconnect switches with 2000 A disconnect switches. Replace existing 954 ACSR and 1272 MCM AL stranded bus with two (2) 954 ACSR stranded bus. Reconfigure eight (8) CTs from 1200 A to 2000 A and install four (4) new 2000 A (310 MVA SE / 351 MVA WE) disconnect switches and two (2) new 954 ACSR (331 MVA SE / 369 MVA WE) stranded bus at Darley 69 kV station |  | DPL (100%) |
| b3155   | Rebuild approx. 12 miles of Wye Mills – Stevensville line   |  | DPL (100%) |
| b3224   | Replace a disconnect switch and reconductor a short span of the Mt. Pleasant – Middletown tap 138 kV line   |  | DPL (100%) |

**Delmarva Power & Light Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b3326   | Rebuild the Vienna - Nelson 138 kV line  |  | DPL (100%) |
| b3327   | Upgrade the disconnect switch at Kent 69 kV station  |  | DPL (100%) |
| b3328   | Upgrade the disconnect switch and CT at Vienna 138 kV station  |  | DPL (100%) |
| b3329   | Rebuild the Farmview - Milford 138 kV line   |  | DPL (100%) |
| b3330   | Rebuild the Farmview - S. Harrington 138 kV line   |  | DPL (100%) |
| b3331   | Upgrade stranded bus and relay at Seaford 138 kV station   |  | DPL (100%) |
| b3332   | Rebuild the Steel - Milford 230 kV line  |  | DPL (100%) |
| b3669.1 | Replace terminal equipment (stranded bus, disconnect switch and circuit breaker) at Church 138 kV substation   |  | DPL (100%) |
| b3669.2 | Replace terminal equipment (circuit breaker) at Townsend 138 kV substation   |  | DPL (100%) |
| b3670   | Upgrade terminal equipment on the Loretto – Fruitland 69 kV circuit. Replace the 477 ACSR stranded bus on the 6711 line terminal inside Loretto 69 KV substation and the 500 SDCU stranded bus on the 6711 line terminal inside 69 kV Fruitland substation with 954 ACSR conductor |  | DPL (100%) |
| b3688   | Replace the 4/0 SDCU stranded bus with 954 ACSR and a 600 A disconnect switch with a 1200 A disconnect switch on the 6716 line terminal inside Todd substation on Preston – Todd 69 kV line  |  | DPL (100%) |

**Delmarva Power & Light Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

| Required Transmission Enhancements | Annual Revenue Requirement                       | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3749                              | Rebuild the New Church - Piney Grove 138 kV line | DPL (100%)              |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 3 – Delmarva Power & Light Co.

Version 25.0.0  
Effective April 9, 2024  
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**SCHEDULE 12 – APPENDIX A**

**(3) Delmarva Power & Light Company**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2288                              | Build a new 138 kV line from Piney Grove – Wattsville   | DPL (100%)  |
| b2395                              | Reconductor the Harmony – Chapel St 138 kV circuit  | DPL (100%)  |
| b2569                              | Replace Terminal equipment at Silverside 69 kV substation   | DPL (100%)  |
| b2633.7                            | Implement high speed relaying utilizing OPGW on Red Lion – Hope Creek 500 kV line   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p> |
| b2633.10                           | Interconnect the new Silver Run 230 kV substation with existing Red Lion – Cartanza and Red Lion – Cedar Creek 230 kV lines | AEC (8.01%) / BGE (1.94%) / DPL (12.99%) / JCPL (13.85%) / ME (5.88%) / NEPTUNE* (3.45%) / PECO (17.62%) / PPL (14.85%) / PSEG (20.79%) / RE (0.62%)  |

\*Neptune Regional Transmission System, LLC

**Delmarva Power & Light Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2695   | Rebuild Worcester – Ocean Pine 69 kV ckt. 1 to 1400A capability summer emergency   |  | DPL (100%) |
| b2946   | Convert existing Preston 69 kV substation to DPL’s current design standard of a 3-breaker ring bus   |  | DPL (100%) |
| b2947.1 | Upgrade terminal equipment at DPL’s Naamans substation (Darley - Naamans 69 kV)  |  | DPL (100%) |
| b2947.2 | Reconductor 0.11 mile section of Darley - Naamans 69 kV circuit  |  | DPL (100%) |
| b2948   | Upgrade terminal equipment at DPL’s Silverside Road substation (Dupont Edge Moor – Silver R. 69 kV)  |  | DPL (100%) |
| b2987   | Install a 30 MVAR capacitor bank at DPL’s Cool Springs 69 kV substation. The capacitor bank would be installed in two separate 15 MVAR stages allowing DPL operational flexibility |  | DPL (100%) |
| b3143.1 | Reconductor the Silverside Road – Darley 69 kV circuit   |  | DPL (100%) |
| b3143.2 | Reconductor the Darley – Naamans 69 kV circuit   |  | DPL (100%) |
| b3143.3 | Replace three (3) existing 1200 A disconnect switches with 2000 A disconnect switches and install three (3) new 2000 A disconnect switches at Silverside 69 kV station             |  | DPL (100%) |

**Delmarva Power & Light Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b3143.4 | Replace two (2) 1200 A disconnect switches with 2000 A disconnect switches. Replace existing 954 ACSR and 500 SDCU stranded bus with two (2) 954 ACSR stranded bus. Reconfigure four (4) CTs from 1200 A to 2000 A and install two (2) new 2000 A disconnect switches and two (2) new 954 ACSR stranded bus at Naamans 69 kV station  |  | DPL (100%) |
| b3143.5 | Replace four (4) 1200 A disconnect switches with 2000 A disconnect switches. Replace existing 954 ACSR and 1272 MCM AL stranded bus with two (2) 954 ACSR stranded bus. Reconfigure eight (8) CTs from 1200 A to 2000 A and install four (4) new 2000 A (310 MVA SE / 351 MVA WE) disconnect switches and two (2) new 954 ACSR (331 MVA SE / 369 MVA WE) stranded bus at Darley 69 kV station |  | DPL (100%) |
| b3155   | Rebuild approx. 12 miles of Wye Mills – Stevensville line   |  | DPL (100%) |
| b3224   | Replace a disconnect switch and reconductor a short span of the Mt. Pleasant – Middletown tap 138 kV line   |  | DPL (100%) |

**Delmarva Power & Light Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b3326   | Rebuild the Vienna - Nelson 138 kV line  |  | DPL (100%) |
| b3327   | Upgrade the disconnect switch at Kent 69 kV station  |  | DPL (100%) |
| b3328   | Upgrade the disconnect switch and CT at Vienna 138 kV station  |  | DPL (100%) |
| b3329   | Rebuild the Farmview - Milford 138 kV line   |  | DPL (100%) |
| b3330   | Rebuild the Farmview - S. Harrington 138 kV line   |  | DPL (100%) |
| b3331   | Upgrade stranded bus and relay at Seaford 138 kV station   |  | DPL (100%) |
| b3332   | Rebuild the Steel - Milford 230 kV line  |  | DPL (100%) |
| b3669.1 | Replace terminal equipment (stranded bus, disconnect switch and circuit breaker) at Church 138 kV substation   |  | DPL (100%) |
| b3669.2 | Replace terminal equipment (circuit breaker) at Townsend 138 kV substation   |  | DPL (100%) |
| b3670   | Upgrade terminal equipment on the Loretto – Fruitland 69 kV circuit. Replace the 477 ACSR stranded bus on the 6711 line terminal inside Loretto 69 KV substation and the 500 SDCU stranded bus on the 6711 line terminal inside 69 kV Fruitland substation with 954 ACSR conductor |  | DPL (100%) |
| b3688   | Replace the 4/0 SDCU stranded bus with 954 ACSR and a 600 A disconnect switch with a 1200 A disconnect switch on the 6716 line terminal inside Todd substation on Preston – Todd 69 kV line  |  | DPL (100%) |

**Delmarva Power & Light Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |   |  |   |
|----------|---|--|---|
| b3749    | Rebuild the New Church - Piney Grove 138 kV line  |  | DPL (100%)  |
| b3800.39 | <u>Red Lion - Hope Creek 500 kV - Replace terminal equipment at Red Lion substation</u> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>AEC (0.02%) / BGE (22.89%) / Dominion (48.61%) / DPL (9.46%) / JCPL (0.03%) / PEPCO (18.96%) / PSEG (0.03%)</u></p> |

\*Neptune Regional Transmission System, LLC

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 5 – Metropolitan Edison Co.

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Effective January 1, 2024  
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**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 align="center"><b>Load-Ratio Share Allocation:</b></p> <p>AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPSCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p align="center"><b>DFAX Allocation:</b></p> <p>BGE (<del>24.31</del><u>20.30</u>%) / PPL (<del>75.69</del><u>79.70</u>%)</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 40 kA breaker | ME (100%)   |
| b2006.5                            | Replace the South Reading 69 kV ‘82842’ breaker with 40 kA 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%)   |

\* Neptune Regional Transmission System, LLC

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

| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s)  |
|--|----------------------------|--|
| b2452.1<br>Reconductor<br>Hunterstown - Oxford<br>115 kV line  |                            | APS (8.30%) / BGE (14.70%)<br>/ DEOK (0.48%) / Dominion<br>(36.92%) / ME (23.85%) /<br>PEPCO (15.75%)  |
| b2452.3<br>Replace the Hunterstown<br>115 kV breaker '96192'<br>with 40 kA   |                            | ME (100%)  |
| b2588<br>Install a 36.6 MVAR 115<br>kV capacitor at North<br>Bangor substation   |                            | ME (100%)  |
| b2637<br>Convert Middletown<br>Junction 230 kV<br>substation to nine bay<br>double breaker<br>configuration.   |                            | ME (100%)  |
| b2644<br>Install a 28.8 MVAR<br>115 kV capacitor at the<br>Mountain substation   |                            | ME (100%)  |
| b2688.1<br>Lincoln Substation:<br>Upgrade the bus<br>conductor and replace<br>CTs  |                            | AEP (12.91%) / APS<br>(19.04%) / ATSI (1.24%) /<br>ComEd (0.35%) / Dayton<br>(1.45%) / DEOK (2.30%) / DL<br>(1.11%) / Dominion (44.85%) /<br>EKPC (0.78%) / PEPCO<br>(15.85%) / RE (0.12%) |
| b2688.2<br>Germantown Substation:<br>Replace 138/115 kV<br>transformer with a<br>135/180/224 MVA bank.<br>Replace Lincoln 115 kV<br>breaker, install new 138<br>kV breaker, upgrade bus<br>conductor and<br>adjust/replace CTs |                            | AEP (12.91%) / APS<br>(19.04%) / ATSI (1.24%) /<br>ComEd (0.35%) / Dayton<br>(1.45%) / DEOK (2.30%) / DL<br>(1.11%) / Dominion (44.85%) /<br>EKPC (0.78%) / PEPCO<br>(15.85%) / RE (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%) / PEPSCO (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%) / PEPSCO (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%)  |
| 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%)  |
| b3136                              | Replace bus conductor at Smith 115 kV substation  | ME (100%)  |
| b3145                              | Rebuild the Hunterstown – Lincoln 115 kV Line No. 962 (approx. 2.6 miles). Upgrade limiting terminal equipment at Hunterstown and Lincoln | AEP (16.60%) / APS (8.09%) / BGE (2.74%) / Dayton (2.00%) / DEOK (0.35%) / DL (1.31%) / Dominion (52.77%) / EKPC (1.54%) / OVEC (0.06%) / PEPSCO (14.54%)  |
| b3311                              | Install a 120.75 kV 79.4 MVAR capacitor bank at Yorkana 115 kV  | ME (100%)  |

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

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)    |
|------------------------------------|--|----------------------------|
| b3671                              | Rebuild approximately 3.6 miles of North Boyertown - West Boyertown 69 kV line. Upgrade terminal equipment (circuit breaker, disconnect switches, substation conductor) and relays at North Boyertown and West Boyertown 69 kV substation              | ME (100%)                  |
| b3715.3                            | Install a new Allen four breaker ring bus switchyard near the existing ME Allen substation on adjacent property presently owned by FirstEnergy. Terminate the Round Top-Allen and the Allen-PPGI (PPG Industries) 115 kV lines into the new switchyard | ME (100%)                  |
| b3768                              | Rebuild/Reconductor the Germantown – Lincoln 115 kV line. Upgrade limiting terminal equipment at Lincoln, Germantown and Straban stations  | ME (100%)                  |
| b3769                              | Install second TMI 500/230 kV transformer with additional 500 kV and 230 kV bus expansions   | ME (45.74%) / PPL (54.26%) |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 5 – Metropolitan Edison Co.

Version 28.0.0  
Effective April 9, 2024  
(Accepted in Docket No. ER24-843-000)

**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 align="center"><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p align="center"><b>DFAX Allocation:</b><br/>                     BGE (24.31%) / PPL (75.69%)</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 40 kA breaker | ME (100%)   |
| b2006.5                            | Replace the South Reading 69 kV ‘82842’ breaker with 40 kA 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%)  |

\* Neptune Regional Transmission System, LLC

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

| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s)  |
|--|----------------------------|--|
| b2452.1<br>Reconductor<br>Hunterstown - Oxford<br>115 kV line  |                            | APS (8.30%) / BGE (14.70%)<br>/ DEOK (0.48%) / Dominion<br>(36.92%) / ME (23.85%) /<br>PEPCO (15.75%)  |
| b2452.3<br>Replace the Hunterstown<br>115 kV breaker '96192'<br>with 40 kA   |                            | ME (100%)  |
| b2588<br>Install a 36.6 MVAR 115<br>kV capacitor at North<br>Bangor substation   |                            | ME (100%)  |
| b2637<br>Convert Middletown<br>Junction 230 kV<br>substation to nine bay<br>double breaker<br>configuration.   |                            | ME (100%)  |
| b2644<br>Install a 28.8 MVAR<br>115 kV capacitor at the<br>Mountain substation   |                            | ME (100%)  |
| b2688.1<br>Lincoln Substation:<br>Upgrade the bus<br>conductor and replace<br>CTs  |                            | AEP (12.91%) / APS<br>(19.04%) / ATSI (1.24%) /<br>ComEd (0.35%) / Dayton<br>(1.45%) / DEOK (2.30%) / DL<br>(1.11%) / Dominion (44.85%) /<br>EKPC (0.78%) / PEPCO<br>(15.85%) / RE (0.12%) |
| b2688.2<br>Germantown Substation:<br>Replace 138/115 kV<br>transformer with a<br>135/180/224 MVA bank.<br>Replace Lincoln 115 kV<br>breaker, install new 138<br>kV breaker, upgrade bus<br>conductor and<br>adjust/replace CTs |                            | AEP (12.91%) / APS<br>(19.04%) / ATSI (1.24%) /<br>ComEd (0.35%) / Dayton<br>(1.45%) / DEOK (2.30%) / DL<br>(1.11%) / Dominion (44.85%) /<br>EKPC (0.78%) / PEPCO<br>(15.85%) / RE (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%) / PEPSCO (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%) / PEPSCO (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%)  |
| 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%)  |
| b3136                              | Replace bus conductor at Smith 115 kV substation  | ME (100%)  |
| b3145                              | Rebuild the Hunterstown – Lincoln 115 kV Line No. 962 (approx. 2.6 miles). Upgrade limiting terminal equipment at Hunterstown and Lincoln | AEP (16.60%) / APS (8.09%) / BGE (2.74%) / Dayton (2.00%) / DEOK (0.35%) / DL (1.31%) / Dominion (52.77%) / EKPC (1.54%) / OVEC (0.06%) / PEPSCO (14.54%)  |
| b3311                              | Install a 120.75 kV 79.4 MVAR capacitor bank at Yorkana 115 kV  | ME (100%)  |

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

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)    |
|------------------------------------|--|----------------------------|
| b3671                              | Rebuild approximately 3.6 miles of North Boyertown - West Boyertown 69 kV line. Upgrade terminal equipment (circuit breaker, disconnect switches, substation conductor) and relays at North Boyertown and West Boyertown 69 kV substation              | ME (100%)                  |
| b3715.3                            | Install a new Allen four breaker ring bus switchyard near the existing ME Allen substation on adjacent property presently owned by FirstEnergy. Terminate the Round Top-Allen and the Allen-PPGI (PPG Industries) 115 kV lines into the new switchyard | ME (100%)                  |
| b3768                              | Rebuild/Reconductor the Germantown – Lincoln 115 kV line. Upgrade limiting terminal equipment at Lincoln, Germantown and Straban stations  | ME (100%)                  |
| b3769                              | Install second TMI 500/230 kV transformer with additional 500 kV and 230 kV bus expansions   | ME (45.74%) / PPL (54.26%) |

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

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                       |   |  |  |
|-----------------------|---|--|--|
| <p><u>b3800.2</u></p> | <p><u>Break the existing Three Mile Island - Peach Bottom 500 kV line and terminate into adjacent Otter Creek 500 kV switchyard</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPSCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (13.16%) / BGE (0.71%) / Dominion (74.28%) / DPL (0.36%) / PECO (0.68%) / PEPSCO (10.59%) / PPL (0.22%)</u></p> |
|-----------------------|---|--|--|

\* Neptune Regional Transmission System, LLC

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

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                 |   |  | <b><u>Load-Ratio Share Allocation:</u></b><br><u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPSCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u> |
|-----------------|---|--|---|
| <u>b3800.6</u>  | <u>Replace terminal equipment at TMI Peach Bottom - TMI 500 kV line</u>                                   |  | <b><u>DFAX Allocation:</u></b><br><u>APS (7.41%) / BGE (15.50%) / Dominion (45.08%) / DPL (2.46%) / JCPL (0.80%) / ME (0.34%) / NEPTUNE* (0.09%) / PECO (10.72%) / PEPSCO (15.72%) / PPL (0.43%) / PSEG (1.39%) / RE (0.06%)</u>  |
| <u>b3800.10</u> | <u>Rebuild the Germantown - Lincoln 115 kV line for 230 kV double circuit construction</u>                |  | <u>ME (100%)</u>  |
| <u>b3800.11</u> | <u>Rebuild the Hunterstown - Lincoln 115 kV line for 230 kV double circuit construction</u>               |  | <u>ME (100%)</u>  |
| <u>b3800.12</u> | <u>Rebuild the Germantown - Carroll 138 kV line for 230 kV double circuit construction (MAIT Section)</u> |  | <u>ME (100%)</u>  |
| <u>b3800.14</u> | <u>Construct new 230 kV Hunterstown - Carroll line (MAIT Section)</u>                                     |  | <u>APS (99.86%) / ME (0.14%)</u>  |

**\* Neptune Regional Transmission System, LLC**

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

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                 |   |  |                                  |
|-----------------|---|--|----------------------------------|
| <u>b3800.18</u> | <u>Add a new 230 kV breaker at the Hunterstown 230 kV substation for the new Hunterstown - Carroll 230 kV termination</u> |  | <u>APS (99.86%) / ME (0.14%)</u> |
| <u>b3800.19</u> | <u>Reconductor Lincoln - Orrtanna 115 kV line</u>   |  | <u>ME (100%)</u>                 |
| <u>b3800.22</u> | <u>Install DTT relaying at Straban 115 kV substation</u>  |  | <u>ME (100%)</u>                 |
| <u>b3800.23</u> | <u>Revise Relay Settings at Lincoln 115 kV substation</u>   |  | <u>ME (100%)</u>                 |
| <u>b3800.24</u> | <u>Revise Relay Settings at Germantown 115 kV substation</u>  |  | <u>ME (100%)</u>                 |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 7 – Penelec

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**SCHEDULE 12 – APPENDIX A**

**(7) Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone**

| Required Transmission Enhancements  | Annual Revenue Requirement | Responsible Customer(s) |
|---|----------------------------|-------------------------|
| b2212 Shawville Substation: Relocate 230 kV and 115 kV controls from the generating station building to new control building                        |                            | PENELEC (100%)          |
| b2293 Replace the Erie South 115 kV breaker 'Buffalo Rd' with 40 kA breaker   |                            | PENELEC (100%)          |
| b2294 Replace the Johnstown 115 kV breaker 'Bon Aire' with 40 kA breaker  |                            | PENELEC (100%)          |
| b2302 Replace the Erie South 115 kV breaker 'French #2' with 40 kA breaker  |                            | PENELEC (100%)          |
| b2304 Replace the substation conductor and switch at South Troy 115 kV substation   |                            | PENELEC (100%)          |
| b2371 Install 75 MVAR capacitor at the Erie East 230 kV substation  |                            | PENELEC (100%)          |
| b2441 Install +250/-100 MVAR SVC at the Erie South 230 kV station   |                            | PENELEC (100%)          |
| b2442 Install three 230 kV breakers on the 230 kV side of the Lewistown #1, #2 and #3 transformers  |                            | PENELEC (100%)          |
| b2450 Construct a new 115 kV line from Central City West to Bedford North   |                            | PENELEC (100%)          |
| b2463 Rebuild and reconductor 115 kV line from East Towanda to S. Troy and upgrade terminal equipment at East Towanda, Tennessee Gas and South Troy |                            | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2494                              | Construct Warren 230 kV ring bus and install a second Warren 230/115 kV transformer  | PENELEC (100%)  |
| b2552.1                            | Reconductor the North Meshoppen – Oxbow-Lackawanna 230 kV circuit and upgrade terminal equipment (MAIT portion)            | PENELEC ( <del>75.48100.00%</del> )+<br>PPL ( <del>24.52%</del> ) |
| b2573                              | Replace the Warren 115 kV 'B12' breaker with a 40 kA breaker   | PENELEC (100%)  |
| b2587                              | Reconfigure Pierce Brook 345 kV station to a ring bus and install a 125 MVAR shunt reactor at the station                  | PENELEC (100%)  |
| b2621                              | Replace relays at East Towanda and East Sayre 115 kV substations (158/191 MVA SN/SE)                                       | PENELEC (100%)  |
| b2677                              | Replace wave trap, bus conductor and relay at Hilltop 115 kV substation. Replace relays at Prospect and Cooper substations | PENELEC (100%)  |
| b2678                              | Convert the East Towanda 115 kV substation to breaker and half configuration   | PENELEC (100%)  |
| b2679                              | Install a 115 kV Venango Jct. line breaker at Edinboro South   | PENELEC (100%)  |
| b2680                              | Install a 115 kV breaker on Hooversville #1 115/23 kV transformer  | PENELEC (100%)  |
| b2681                              | Install a 115 kV breaker on the Eclipse #2 115/34.5 kV transformer   | PENELEC (100%)  |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2682                              | Install two 21.6 MVAR capacitors at the Shade Gap 115 kV substation                     | PENELEC (100%)          |
| b2683                              | Install a 36 MVAR 115 kV capacitor and associated equipment at Morgan Street substation | PENELEC (100%)          |
| b2684                              | Install a 36 MVAR 115 kV capacitor at Central City West substation                      | PENELEC (100%)          |
| b2685                              | Install a second 115 kV 3000A bus tie breaker at Hooversville substation                | PENELEC (100%)          |
| b2735                              | Replace the Warren 115 kV 'NO. 2 XFMR' breaker with 40 kA breaker                       | PENELEC (100%)          |
| b2736                              | Replace the Warren 115 kV 'Warren #1' breaker with 40 kA breaker                        | PENELEC (100%)          |
| b2737                              | Replace the Warren 115 kV 'A TX #1' breaker with 40 kA breaker                          | PENELEC (100%)          |
| b2738                              | Replace the Warren 115 kV 'A TX #2' breaker with 40 kA breaker                          | PENELEC (100%)          |
| b2739                              | Replace the Warren 115 kV 'Warren #2' breaker with 40 kA breaker                        | PENELEC (100%)          |
| b2740                              | Revise the reclosing of the Hooversville 115 kV 'Ralphton' breaker                      | PENELEC (100%)          |
| b2741                              | Revise the reclosing of the Hooversville 115 kV 'Statler Hill' breaker                  | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2743.2                            | Tie in new Rice substation to Conemaugh – Hunterstown 500 kV  | 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%) |
| b2743.3                            | Upgrade terminal equipment at Conemaugh 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%) |
| b2748                              | Install two 28 MVAR capacitors at Tiffany 115 kV substation   | PENELEC (100%)  |
| b2767                              | Construct a new 345 kV breaker string with three (3) 345 kV breakers at Homer City and move the North autotransformer connection to this new breaker string | PENELEC (100%)  |
| b2803                              | Reconductor 3.7 miles of the Bethlehem – Loretto 46 kV circuit and replace terminal equipment at Summit 46 kV   | PENELEC (100%)  |
| b2804                              | Install a new relay and replace 4/0 CU bus conductor at Huntingdon 46 kV station, on the Huntingdon – C tap 46 kV circuit                                   | PENELEC (100%)  |
| b2805                              | Install a new relay and replace 4/0 CU & 250 CU substation conductor at Hollidaysburg 46 kV station, on the Hollidaysburg – HCR Tap 46 kV circuit           | PENELEC (100%)  |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2806                              | Install a new relay and replace meter at the Raystown 46 kV substation, on the Raystown – Smithfield 46 kV circuit  | PENELEC (100%)          |
| b2807                              | Replace the CHPV and CRS relay, and adjust the IAC overcurrent relay trip setting; or replace the relay at Eldorado 46 kV substation, on the Eldorado – Gallitzin 46 kV circuit         | PENELEC (100%)          |
| b2808                              | Adjust the JBC overcurrent relay trip setting at Raystown 46 kV, and replace relay and 4/0 CU bus conductor at Huntingdon 46 kV substations, on the Raystown – Huntingdon 46 kV circuit | PENELEC (100%)          |
| b2865                              | Replace Seward 115 kV breaker "Jackson Road" with 63 kA breaker   | PENELEC (100%)          |
| b2866                              | Replace Seward 115 kV breaker "Conemaugh N." with 63 kA breaker   | PENELEC (100%)          |
| b2867                              | Replace Seward 115 kV breaker "Conemaugh S." with 63 kA breaker   | PENELEC (100%)          |
| b2868                              | Replace Seward 115 kV breaker "No.8 Xfmr" with 63 kA breaker  | PENELEC (100%)          |
| b2944                              | Install two 345 kV 80 MVAR shunt reactors at Mainesburg station   | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2951                              | Seward, Blairsville East, Shelocta work  | PENELEC (100%)          |
| b2951.1                            | Upgrade Florence 115 kV line terminal equipment at Seward SS   | PENELEC (100%)          |
| b2951.2                            | Replace Blairsville East / Seward 115 kV line tuner, coax, line relaying and carrier set at Shelocta SS  | PENELEC (100%)          |
| b2951.3                            | Replace Seward / Shelocta 115 kV line CVT, tuner, coax, and line relaying at Blairsville East SS   | PENELEC (100%)          |
| b2952                              | Replace the North Meshoppen #3 230/115 kV transformer eliminating the old reactor and installing two breakers to complete a 230 kV ring bus at North Meshoppen   | PENELEC (100%)          |
| b2953                              | Replace the Keystone 500 kV breaker "NO. 14 Cabot" with 50 kA breaker  | PENELEC (100%)          |
| b2954                              | Replace the Keystone 500 kV breaker "NO. 16 Cabot" with 50 kA breaker  | PENELEC (100%)          |
| b2984                              | Reconfigure the bus at Glory and install a 50.4 MVAR 115 kV capacitor  | PENELEC (100%)          |
| b3007.2                            | Reconductor the Blairsville East to Social Hall 138 kV line and upgrade terminal equipment - PENELEC portion. 4.8 miles total. The new conductor will be 636 ACSS replacing the existing 636 ACSR conductor. At Blairsville East, the wave trap and breaker disconnects will be replaced | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3008                              | Upgrade Blairsville East 138/115 kV transformer terminals. This project is an upgrade to the tap of the Seward – Shelocta 115 kV line into Blairsville substation. The project will replace the circuit breaker and adjust relay settings | PENELEC (100%)          |
| b3009                              | Upgrade Blairsville East 115 kV terminal equipment. Replace 115 kV circuit breaker and disconnects  | PENELEC (100%)          |
| b3014                              | Replace the existing Shelocta 230/115 kV transformer and construct a 230 kV ring bus  | PENELEC (100%)          |
| b3016                              | Upgrade terminal equipment at Corry East 115 kV to increase rating of Four Mile to Corry East 115 kV line. Replace bus conductor  | PENELEC (100%)          |
| b3017.1                            | Rebuild Glade to Warren 230 kV line with hi-temp conductor and substation terminal upgrades. 11.53 miles. New conductor will be 1033 ACSS. Existing conductor is 1033 ACSR  | PENELEC (100%)          |
| b3017.2                            | Glade substation terminal upgrades. Replace bus conductor, wave traps, and relaying   | PENELEC (100%)          |
| b3017.3                            | Warren substation terminal upgrades. Replace bus conductor, wave traps, and relaying  | PENELEC (100%)          |
| b3022                              | Replace Saxton 115 kV breaker ‘BUS TIE’ with a 40 kA breaker  | PENELEC (100%)          |

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

| Required Transmission Enhancements  | Annual Revenue Requirement | Responsible Customer(s) |
|---|----------------------------|-------------------------|
| b3024<br>Upgrade terminal equipment at Corry East 115 kV to increase rating of Warren to Corry East 115 kV line.<br>Replace bus conductor |                            | PENELEC (100%)          |
| b3043<br>Install one 115 kV 36 MVAR capacitor at West Fall 115 kV substation  |                            | PENELEC (100%)          |
| b3073<br>Replace the Blairsville East 138/115 kV transformer and associated equipment such as breaker disconnects and bus conductor       |                            | PENELEC (100%)          |
| b3077<br>Reconductor the Franklin Pike B – Wayne 115 kV line (6.78 miles)   |                            | PENELEC (100%)          |
| b3078<br>Reconductor the 138 kV bus and replace the line trap, relays Morgan Street.<br>Reconductor the 138 kV bus at Venango Junction    |                            | PENELEC (100%)          |
| b3082<br>Construct 4-breaker 115 kV ring bus at Geneva  |                            | PENELEC (100%)          |
| b3137<br>Rebuild 20 miles of the East Towanda – North Meshoppen 115 kV line   |                            | PENELEC (100%)          |
| b3144<br>Upgrade bus conductor and relay panels of the Jackson Road – Nanty Glo 46 kV SJN line  |                            | PENELEC (100%)          |
| b3144.1<br>Upgrade line relaying and substation conductor on the 46 kV Nanty Glo line exit at Jackson Road substation                     |                            | PENELEC (100%)          |
| b3144.2<br>Upgrade line relaying and substation conductor on the 46 kV Jackson Road line exit at Nanty Glo substation                     |                            | PENELEC (100%)          |
| b3154<br>Install one (1) 13.2 MVAR 46 kV capacitor at the Logan substation  |                            | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3231                              | Replace the existing No. 2 cap bank breaker at Huntingdon substation with a new breaker with higher interrupting capability   | PENELEC (100%)          |
| b3232                              | Replace the existing Williamsburg, ALH (Hollidaysburg) and bus section breaker at the Altoona substation with a new breaker with higher interrupting capability   | PENELEC (100%)          |
| b3233                              | Install one (1) 34 MVAR 115 kV shunt reactor and breaker. Install one (1) 115 kV circuit breaker to expand the substation to a 4-breaker ring bus   | PENELEC (100%)          |
| b3237                              | Install two (2) 46 kV 6.12 MVAR capacitors effective at Mt. Union   | PENELEC (100%)          |
| b3245                              | Construct a new breaker-and-a-half substation near Tiffany substation. All transmission assets and lines will be relocated to the new substation. The two (2) distribution transformers will be fed via two (2) dedicated 115 kV feeds to the existing Tiffany substation | PENELEC (100%)          |
| b3306                              | Install a second 125 MVAR 345 kV shunt reactor and associated equipment at Pierce Brook substation. Install a 345 kV breaker on the high side of the 345/230 kV transformer #1  | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3665                              | Replace several pieces of 1033.5 AAC substation conductor at East Towanda 230 kV station on East Towanda - Canyon 230 kV line   | PENELEC (100%)          |
| b3666                              | Install dual reactors and expand existing ring bus at Marshall 230 kV substation  | PENELEC (100%)          |
| b3667                              | Install second 230/115 kV transformer at Pierce Brook substation  | PENELEC (100%)          |
| b3672                              | Rebuild 2.5 miles of East Towanda-North Meshoppen 115 kV line with 1113 ACSS conductor using single circuit construction. Upgrade all terminal equipment to the rating of 1113 ACSS                               | PENELEC (100%)          |
| b3673                              | Replace the relay panels at Bethlehem 33 46 kV substation on the Cambria Prison line  | PENELEC (100%)          |
| b3708                              | Replace the Shawville 230/115/17.2 kV transformer with a new Shawville 230/115 kV transformer and associated facilities. Replace the plant's No. 2B 115/17.2 kV transformer with a larger 230/17.2 kV transformer | PENELEC (100%)          |
| b3750                              | Upgrade Seward terminal equipment of Seward – Blairsville 115 kV line to increase the line rating such that the transmission line conductor is the limiting component   | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3751                              | Rebuild 6.4 miles of Roxbury – Shade Gap 115 kV line from Roxbury to the AE1-071 115 kV ring bus with single circuit 115 kV construction  | PENELEC (100%)          |
| b3752                              | Rebuild 7.2 miles of the Shade Gap – AE1-071 115 kV line section of the Roxbury – Shade Gap 115 kV line   | PENELEC (100%)          |
| b3753                              | Replace the Tyrone North 115 /46 kV transformer with a new standard 75 MVA top rated bank and upgrade the entire terminal to minimum 100 MVA capability for both SN and SE rating | PENELEC (100%)          |
| b3754                              | Construct a new three breaker ring bus to tie into the Warrior Ridge - Belleville 46 kV D line and the 1LK line at Maclane Tap  | PENELEC (100%)          |
| b3765                              | Purchase one 80 MVAR 345 kV spare reactor, to be located at the Mainesburg 345 kV station   | PENELEC (100%)          |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 7 – Penelec

Version 31.0.0  
Effective January 31, 2024  
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**SCHEDULE 12 – APPENDIX A**

**(7) Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone**

| Required Transmission Enhancements  | Annual Revenue Requirement | Responsible Customer(s) |
|---|----------------------------|-------------------------|
| b2212 Shawville Substation: Relocate 230 kV and 115 kV controls from the generating station building to new control building                        |                            | PENELEC (100%)          |
| b2293 Replace the Erie South 115 kV breaker 'Buffalo Rd' with 40 kA breaker   |                            | PENELEC (100%)          |
| b2294 Replace the Johnstown 115 kV breaker 'Bon Aire' with 40 kA breaker  |                            | PENELEC (100%)          |
| b2302 Replace the Erie South 115 kV breaker 'French #2' with 40 kA breaker  |                            | PENELEC (100%)          |
| b2304 Replace the substation conductor and switch at South Troy 115 kV substation   |                            | PENELEC (100%)          |
| b2371 Install 75 MVAR capacitor at the Erie East 230 kV substation  |                            | PENELEC (100%)          |
| b2441 Install +250/-100 MVAR SVC at the Erie South 230 kV station   |                            | PENELEC (100%)          |
| b2442 Install three 230 kV breakers on the 230 kV side of the Lewistown #1, #2 and #3 transformers  |                            | PENELEC (100%)          |
| b2450 Construct a new 115 kV line from Central City West to Bedford North   |                            | PENELEC (100%)          |
| b2463 Rebuild and reconductor 115 kV line from East Towanda to S. Troy and upgrade terminal equipment at East Towanda, Tennessee Gas and South Troy |                            | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)         |
|------------------------------------|--|---------------------------------|
| b2494                              | Construct Warren 230 kV ring bus and install a second Warren 230/115 kV transformer  | PENELEC (100%)                  |
| b2552.1                            | Reconductor the North Meshoppen – Oxbow-Lackawanna 230 kV circuit and upgrade terminal equipment (MAIT portion)            | PENELEC (75.48%) / PPL (24.52%) |
| b2573                              | Replace the Warren 115 kV 'B12' breaker with a 40 kA breaker   | PENELEC (100%)                  |
| b2587                              | Reconfigure Pierce Brook 345 kV station to a ring bus and install a 125 MVAR shunt reactor at the station                  | PENELEC (100%)                  |
| b2621                              | Replace relays at East Towanda and East Sayre 115 kV substations (158/191 MVA SN/SE)                                       | PENELEC (100%)                  |
| b2677                              | Replace wave trap, bus conductor and relay at Hilltop 115 kV substation. Replace relays at Prospect and Cooper substations | PENELEC (100%)                  |
| b2678                              | Convert the East Towanda 115 kV substation to breaker and half configuration   | PENELEC (100%)                  |
| b2679                              | Install a 115 kV Venango Jct. line breaker at Edinboro South   | PENELEC (100%)                  |
| b2680                              | Install a 115 kV breaker on Hooversville #1 115/23 kV transformer  | PENELEC (100%)                  |
| b2681                              | Install a 115 kV breaker on the Eclipse #2 115/34.5 kV transformer   | PENELEC (100%)                  |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2682                              | Install two 21.6 MVAR capacitors at the Shade Gap 115 kV substation                     | PENELEC (100%)          |
| b2683                              | Install a 36 MVAR 115 kV capacitor and associated equipment at Morgan Street substation | PENELEC (100%)          |
| b2684                              | Install a 36 MVAR 115 kV capacitor at Central City West substation                      | PENELEC (100%)          |
| b2685                              | Install a second 115 kV 3000A bus tie breaker at Hooversville substation                | PENELEC (100%)          |
| b2735                              | Replace the Warren 115 kV 'NO. 2 XFMR' breaker with 40 kA breaker                       | PENELEC (100%)          |
| b2736                              | Replace the Warren 115 kV 'Warren #1' breaker with 40 kA breaker                        | PENELEC (100%)          |
| b2737                              | Replace the Warren 115 kV 'A TX #1' breaker with 40 kA breaker                          | PENELEC (100%)          |
| b2738                              | Replace the Warren 115 kV 'A TX #2' breaker with 40 kA breaker                          | PENELEC (100%)          |
| b2739                              | Replace the Warren 115 kV 'Warren #2' breaker with 40 kA breaker                        | PENELEC (100%)          |
| b2740                              | Revise the reclosing of the Hooversville 115 kV 'Ralphton' breaker                      | PENELEC (100%)          |
| b2741                              | Revise the reclosing of the Hooversville 115 kV 'Statler Hill' breaker                  | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2743.2                            | Tie in new Rice substation to Conemaugh – Hunterstown 500 kV  | 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%) |
| b2743.3                            | Upgrade terminal equipment at Conemaugh 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%) |
| b2748                              | Install two 28 MVAR capacitors at Tiffany 115 kV substation   | PENELEC (100%)  |
| b2767                              | Construct a new 345 kV breaker string with three (3) 345 kV breakers at Homer City and move the North autotransformer connection to this new breaker string | PENELEC (100%)  |
| b2803                              | Reconductor 3.7 miles of the Bethlehem – Leretto 46 kV circuit and replace terminal equipment at Summit 46 kV   | PENELEC (100%)  |
| b2804                              | Install a new relay and replace 4/0 CU bus conductor at Huntingdon 46 kV station, on the Huntingdon – C tap 46 kV circuit                                   | PENELEC (100%)  |
| b2805                              | Install a new relay and replace 4/0 CU & 250 CU substation conductor at Hollidaysburg 46 kV station, on the Hollidaysburg – HCR Tap 46 kV circuit           | PENELEC (100%)  |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2806                              | Install a new relay and replace meter at the Raystown 46 kV substation, on the Raystown – Smithfield 46 kV circuit  | PENELEC (100%)          |
| b2807                              | Replace the CHPV and CRS relay, and adjust the IAC overcurrent relay trip setting; or replace the relay at Eldorado 46 kV substation, on the Eldorado – Gallitzin 46 kV circuit         | PENELEC (100%)          |
| b2808                              | Adjust the JBC overcurrent relay trip setting at Raystown 46 kV, and replace relay and 4/0 CU bus conductor at Huntingdon 46 kV substations, on the Raystown – Huntingdon 46 kV circuit | PENELEC (100%)          |
| b2865                              | Replace Seward 115 kV breaker "Jackson Road" with 63 kA breaker   | PENELEC (100%)          |
| b2866                              | Replace Seward 115 kV breaker "Conemaugh N." with 63 kA breaker   | PENELEC (100%)          |
| b2867                              | Replace Seward 115 kV breaker "Conemaugh S." with 63 kA breaker   | PENELEC (100%)          |
| b2868                              | Replace Seward 115 kV breaker "No.8 Xfmr" with 63 kA breaker  | PENELEC (100%)          |
| b2944                              | Install two 345 kV 80 MVAR shunt reactors at Mainesburg station   | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2951                              | Seward, Blairsville East, Shelocta work  | PENELEC (100%)          |
| b2951.1                            | Upgrade Florence 115 kV line terminal equipment at Seward SS   | PENELEC (100%)          |
| b2951.2                            | Replace Blairsville East / Seward 115 kV line tuner, coax, line relaying and carrier set at Shelocta SS  | PENELEC (100%)          |
| b2951.3                            | Replace Seward / Shelocta 115 kV line CVT, tuner, coax, and line relaying at Blairsville East SS   | PENELEC (100%)          |
| b2952                              | Replace the North Meshoppen #3 230/115 kV transformer eliminating the old reactor and installing two breakers to complete a 230 kV ring bus at North Meshoppen   | PENELEC (100%)          |
| b2953                              | Replace the Keystone 500 kV breaker "NO. 14 Cabot" with 50 kA breaker  | PENELEC (100%)          |
| b2954                              | Replace the Keystone 500 kV breaker "NO. 16 Cabot" with 50 kA breaker  | PENELEC (100%)          |
| b2984                              | Reconfigure the bus at Glory and install a 50.4 MVAR 115 kV capacitor  | PENELEC (100%)          |
| b3007.2                            | Reconductor the Blairsville East to Social Hall 138 kV line and upgrade terminal equipment - PENELEC portion. 4.8 miles total. The new conductor will be 636 ACSS replacing the existing 636 ACSR conductor. At Blairsville East, the wave trap and breaker disconnects will be replaced | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3008                              | Upgrade Blairsville East 138/115 kV transformer terminals. This project is an upgrade to the tap of the Seward – Shelocta 115 kV line into Blairsville substation. The project will replace the circuit breaker and adjust relay settings | PENELEC (100%)          |
| b3009                              | Upgrade Blairsville East 115 kV terminal equipment. Replace 115 kV circuit breaker and disconnects  | PENELEC (100%)          |
| b3014                              | Replace the existing Shelocta 230/115 kV transformer and construct a 230 kV ring bus  | PENELEC (100%)          |
| b3016                              | Upgrade terminal equipment at Corry East 115 kV to increase rating of Four Mile to Corry East 115 kV line. Replace bus conductor  | PENELEC (100%)          |
| b3017.1                            | Rebuild Glade to Warren 230 kV line with hi-temp conductor and substation terminal upgrades. 11.53 miles. New conductor will be 1033 ACSS. Existing conductor is 1033 ACSR  | PENELEC (100%)          |
| b3017.2                            | Glade substation terminal upgrades. Replace bus conductor, wave traps, and relaying   | PENELEC (100%)          |
| b3017.3                            | Warren substation terminal upgrades. Replace bus conductor, wave traps, and relaying  | PENELEC (100%)          |
| b3022                              | Replace Saxton 115 kV breaker ‘BUS TIE’ with a 40 kA breaker  | PENELEC (100%)          |

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

| Required Transmission Enhancements  | Annual Revenue Requirement | Responsible Customer(s) |
|---|----------------------------|-------------------------|
| b3024<br>Upgrade terminal equipment at Corry East 115 kV to increase rating of Warren to Corry East 115 kV line.<br>Replace bus conductor |                            | PENELEC (100%)          |
| b3043<br>Install one 115 kV 36 MVAR capacitor at West Fall 115 kV substation  |                            | PENELEC (100%)          |
| b3073<br>Replace the Blairsville East 138/115 kV transformer and associated equipment such as breaker disconnects and bus conductor       |                            | PENELEC (100%)          |
| b3077<br>Reconductor the Franklin Pike B – Wayne 115 kV line (6.78 miles)   |                            | PENELEC (100%)          |
| b3078<br>Reconductor the 138 kV bus and replace the line trap, relays Morgan Street.<br>Reconductor the 138 kV bus at Venango Junction    |                            | PENELEC (100%)          |
| b3082<br>Construct 4-breaker 115 kV ring bus at Geneva  |                            | PENELEC (100%)          |
| b3137<br>Rebuild 20 miles of the East Towanda – North Meshoppen 115 kV line   |                            | PENELEC (100%)          |
| b3144<br>Upgrade bus conductor and relay panels of the Jackson Road – Nanty Glo 46 kV SJN line  |                            | PENELEC (100%)          |
| b3144.1<br>Upgrade line relaying and substation conductor on the 46 kV Nanty Glo line exit at Jackson Road substation                     |                            | PENELEC (100%)          |
| b3144.2<br>Upgrade line relaying and substation conductor on the 46 kV Jackson Road line exit at Nanty Glo substation                     |                            | PENELEC (100%)          |
| b3154<br>Install one (1) 13.2 MVAR 46 kV capacitor at the Logan substation  |                            | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3231                              | Replace the existing No. 2 cap bank breaker at Huntingdon substation with a new breaker with higher interrupting capability   | PENELEC (100%)          |
| b3232                              | Replace the existing Williamsburg, ALH (Hollidaysburg) and bus section breaker at the Altoona substation with a new breaker with higher interrupting capability   | PENELEC (100%)          |
| b3233                              | Install one (1) 34 MVAR 115 kV shunt reactor and breaker. Install one (1) 115 kV circuit breaker to expand the substation to a 4-breaker ring bus   | PENELEC (100%)          |
| b3237                              | Install two (2) 46 kV 6.12 MVAR capacitors effective at Mt. Union   | PENELEC (100%)          |
| b3245                              | Construct a new breaker-and-a-half substation near Tiffany substation. All transmission assets and lines will be relocated to the new substation. The two (2) distribution transformers will be fed via two (2) dedicated 115 kV feeds to the existing Tiffany substation | PENELEC (100%)          |
| b3306                              | Install a second 125 MVAR 345 kV shunt reactor and associated equipment at Pierce Brook substation. Install a 345 kV breaker on the high side of the 345/230 kV transformer #1  | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3665                              | Replace several pieces of 1033.5 AAC substation conductor at East Towanda 230 kV station on East Towanda - Canyon 230 kV line   | PENELEC (100%)          |
| b3666                              | Install dual reactors and expand existing ring bus at Marshall 230 kV substation  | PENELEC (100%)          |
| b3667                              | Install second 230/115 kV transformer at Pierce Brook substation  | PENELEC (100%)          |
| b3672                              | Rebuild 2.5 miles of East Towanda-North Meshoppen 115 kV line with 1113 ACSS conductor using single circuit construction. Upgrade all terminal equipment to the rating of 1113 ACSS                               | PENELEC (100%)          |
| b3673                              | Replace the relay panels at Bethlehem 33 46 kV substation on the Cambria Prison line  | PENELEC (100%)          |
| b3708                              | Replace the Shawville 230/115/17.2 kV transformer with a new Shawville 230/115 kV transformer and associated facilities. Replace the plant's No. 2B 115/17.2 kV transformer with a larger 230/17.2 kV transformer | PENELEC (100%)          |
| b3750                              | Upgrade Seward terminal equipment of Seward – Blairsville 115 kV line to increase the line rating such that the transmission line conductor is the limiting component   | PENELEC (100%)          |

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

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3751                              | Rebuild 6.4 miles of Roxbury – Shade Gap 115 kV line from Roxbury to the AE1-071 115 kV ring bus with single circuit 115 kV construction   | PENELEC (100%)          |
| b3752                              | Rebuild 7.2 miles of the Shade Gap – AE1-071 115 kV line section of the Roxbury – Shade Gap 115 kV line  | PENELEC (100%)          |
| b3753                              | Replace the Tyrone North 115 /46 kV transformer with a new standard 75 MVA top rated bank and upgrade the entire terminal to minimum 100 MVA capability for both SN and SE rating  | PENELEC (100%)          |
| b3754                              | Construct a new three breaker ring bus to tie into the Warrior Ridge - Belleville 46 kV D line and the 1LK line at Maclane Tap   | PENELEC (100%)          |
| b3765                              | Purchase one 80 MVAR 345 kV spare reactor, to be located at the Mainesburg 345 kV station  | PENELEC (100%)          |
| <u>b3783</u>                       | <u>Cut and remove the 345 kV and 230 kV generator lead lines at Homer City station. Install new station service supply, separate AC station service, separate protection and controls schemes, and review and adjust relay protection settings</u> | <u>PENELEC (100%)</u>   |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 8 – PECO Energy Co.

Version 25.0.0  
Effective January 1, 2024  
(Accepted in Docket No. ER24-786-000)

**SCHEDULE 12 – APPENDIX A**

**(8) PECO Energy Company**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2130                              | Replace Waneeta 138 kV breaker '15' with 63 kA rated breaker   | PECO (100%)             |
| b2131                              | Replace Waneeta 138 kV breaker '35' with 63 kA rated breaker   | PECO (100%)             |
| b2132                              | Replace Waneeta 138 kV breaker '875' with 63 kA rated breaker  | PECO (100%)             |
| b2133                              | Replace Waneeta 138 kV breaker '895' with 63 kA rated breaker  | PECO (100%)             |
| b2134                              | Plymouth Meeting 230 kV breaker '115' with 63 kA rated breaker   | PECO (100%)             |
| b2222                              | Install a second Eddystone 230/138 kV transformer  | PECO (100%)             |
| b2222.1                            | Replace the Eddystone 138 kV #205 breaker with 63 kA breaker   | PECO (100%)             |
| b2222.2                            | Increase Rating of Eddystone #415 138 kV Breaker   | PECO (100%)             |
| b2236                              | 50 MVAR reactor at Buckingham 230 kV   | PECO (100%)             |
| b2527                              | Replace Whitpain 230 kV breaker '155' with 80 kA breaker   | PECO (100%)             |
| b2528                              | Replace Whitpain 230 kV breaker '525' with 80 kA breaker   | PECO (100%)             |
| b2529                              | Replace Whitpain 230 kV breaker '175' with 80 kA breaker   | PECO (100%)             |
| b2549                              | Replace terminal equipment inside Chichester substation on the 220-36 (Chichester – Eddystone) 230 kV line | PECO (100%)             |

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2550                              | Replace terminal equipment inside Nottingham substation on the 220-05 (Nottingham – Daleville- Bradford) 230 kV line         | PECO (100%)  |
| b2551                              | Replace terminal equipment inside Llanerch substation on the 130-45 (Eddystone to Llanerch) 138 kV line                      | PECO (100%)  |
| b2572                              | Replace the Peach Bottom 500 kV ‘#225’ breaker with a 63 kA breaker  | PECO (100%)  |
| b2694                              | Increase ratings of Peach Bottom 500/230 kV transformer to 1479 MVA normal/1839 MVA emergency                                | AEC (3.97%)/ AEP (5.77%)/ APS (4.27%)/ ATSI (6.15%)/ BGE (1.63%)/ ComEd (0.72%)/ Dayton (1.06%)/ DEOK (1.97%)/ DL (2.25%)/ Dominion (0.35%)/ DPL (14.29%)/ ECP** (0.69%)/ EKPC (0.39%)/ HTP*** (0.96%)/ JCPL (6.84%) MetEd (3.28%)/ NEPTUNE* (2.14%)/ PECO (16.42%)/ PENELEC (3.94%)/ PPL (8.32%)/ PSEG (14.13%)/ RE (0.44%) |
| b2752.2                            | Tie in new Furnace Run substation to Peach Bottom – TMI 500 kV   | 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%)  |
| b2752.3                            | Upgrade terminal equipment and required relay communication at Peach Bottom 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%)  |

\*Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2766.2                            | Upgrade substation equipment at Peach Bottom 500 kV to increase facility rating to 2826 MVA normal and 3525 MVA emergency | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     AEC (<del>0.72</del><u>11.03</u>%) / <del>APS (11.06%)</del> / <del>ATSI (1.43%)</del> / <del>BGE (34.25)</del><u>37.40</u>%) / DPL (<del>1.83</del><u>22.91</u>%) / <del>PECO (1.80%)</del> / PEPCO (<del>35.49</del><u>28.66</u>%) / <del>PSEG (12.92%)</del> / <del>RE (0.50%)</del></p> |

\*Neptune Regional Transmission System, LLC

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2774                              | Reconductor the Emilie - Falls 138 kV line, and replace station cable and relay | PECO (100%)             |
| b2775                              | Reconductor the Falls - U.S. Steel 138 kV line                                  | PECO (100%)             |
| b2850                              | Replace the Waneeta 230 kV "285" with 63 kA breaker                             | PECO (100%)             |
| b2852                              | Replace the Chichester 230 kV "195" with 63 kA breaker                          | PECO (100%)             |
| b2854                              | Replace the North Philadelphia 230 kV "CS 775" with 63 kA breaker               | PECO (100%)             |
| b2855                              | Replace the North Philadelphia 230 kV "CS 885" with 63 kA breaker               | PECO (100%)             |
| b2856                              | Replace the Parrish 230 kV "CS 715" with 63 kA breaker                          | PECO (100%)             |
| b2857                              | Replace the Parrish 230 kV "CS 825" with 63 kA breaker                          | PECO (100%)             |
| b2858                              | Replace the Parrish 230 kV "CS 935" with 63 kA breaker                          | PECO (100%)             |
| b2859                              | Replace the Plymouth Meeting 230 kV "215" with 63 kA breaker                    | PECO (100%)             |
| b2860                              | Replace the Plymouth Meeting 230 kV "235" with 63 kA breaker                    | PECO (100%)             |
| b2861                              | Replace the Plymouth Meeting 230 kV "325" with 63 kA breaker                    | PECO (100%)             |
| b2862                              | Replace the Grays Ferry 230 kV "705" with 63 kA breaker                         | PECO (100%)             |

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2863                              | Replace the Grays Ferry 230 kV "985" with 63 kA breaker   | PECO (100%)             |
| b2864                              | Replace the Grays Ferry 230 kV "775" with 63 kA breaker   | PECO (100%)             |
| b2923                              | Replace the China Tap 230 kV 'CS 15' breaker with a 63 kA breaker   | PECO (100%)             |
| b2924                              | Replace the Emilie 230 kV 'CS 15' breaker with 63 kA breaker  | PECO (100%)             |
| b2925                              | Replace the Emilie 230 kV 'CS 25' breaker with 63 kA breaker  | PECO (100%)             |
| b2926                              | Replace the Chichester 230 kV '215' breaker with 63 kA breaker  | PECO (100%)             |
| b2927                              | Replace the Plymouth Meeting 230 kV '125' breaker with 63 kA breaker  | PECO (100%)             |
| b2985                              | Replace the 230 kV CB #225 at Linwood Substation (PECO) with a double circuit breaker (back to back circuit breakers in one device) | PECO (100%)             |
| b3041                              | Peach Bottom – Furnace Run 500 kV terminal equipment  | PECO (100%)             |
| b3120                              | Replace the Whitpain 230 kV breaker "125" with a 63 kA breaker  | PECO (100%)             |
| b3138                              | Move 2 MVA load from the Roxborough to Bala substation. Adjust the tap setting on the Master 138/69 kV transformer #2               | PECO (100%)             |
| b3146                              | Upgrade the Richmond 69 kV breaker "140" with 40 kA breaker   | PECO (100%)             |

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3697                              | Replace station conductor and metering inside Whitpain and Plymouth 230 kV substations to increase the ratings of the Whitpain – Plymouth 230 kV line | PECO (100%)  |
| b3728.2                            | Replace 4 meters and bus work inside Peach Bottom substation on the 500 kV Line 5012 (Conastone – Peach Bottom)                                       | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.76</del>5.82%) / ATSI (<del>8.04</del>7.49%) / BGE (<del>4.11</del>4.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.12</del>2.03%) / DEOK (<del>3.25</del>3.21%) / DL (<del>1.71</del>1.59%) / DPL (<del>2.60</del>2.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.89</del>2.35%) / JCPL (<del>3.86</del>3.59%) / ME (<del>1.90</del>1.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del>0.06%) / PECO (<del>5.40</del>5.11%) / PENELEC (<del>1.78</del>1.73%) / PEPCO (<del>3.67</del>3.68%) / PPL (<del>4.72</del>4.43%) / PSEG (<del>6.39</del>5.99%) / RE (<del>0.26</del>0.24%)</p> <p><b>DFAX Allocation:</b><br/>           APS (3.94%) / ATSI (0.03%) / BGE (20.78%) / DL (0.01%) / DPL (0.02%) / Dominion (31.75%) / JCPL (6.99%) / NEPTUNE* (0.80%) / PECO (0.98%) / PEPCO (17.52%) / PPL (2.69%) / PSEG (13.93%) / RE (0.56%)</p> |

\*Neptune Regional Transmission System, LLC

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b3780.1                            | Peach Bottom North upgrades – 500 kV substation work. Add 3x 500 kV breakers to form a breaker-and-a-half bay                        | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     ATSI (0.02%) / BGE (28.40%) / Dominion (33.36%) / DPL (0.02%) / JCPL (6.36%) / NEPTUNE* (0.73%) / PECO (0.01%) / PEPCO (17.90%) / PSEG (12.69%) / RE (0.51%)</p> |
| b3780.2                            | Peach Bottom to Graceton (PECO) new 500 kV transmission line. New rating: 4503 MVA SN/5022 MVA SE                                    | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     ATSI (0.02%) / BGE (28.40%) / Dominion (33.36%) / DPL (0.02%) / JCPL (6.36%) / NEPTUNE* (0.73%) / PECO (0.01%) / PEPCO (17.90%) / PSEG (12.69%) / RE (0.51%)</p> |
| b3780.3                            | West Cooper substation work includes 3 breaker ring, 500/230 kV transformer, control house, substation build, and reconfigure Cooper | DPL (41.52%) / PECO (58.48%)  |

|  |   |  |  |
|--|---|--|--|
|  | distribution station feed. New<br>transformer rating: 1559<br>MVA SN/ 1940 MVA SE |  |  |
|--|---|--|--|

\*Neptune Regional Transmission System, LLC

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 8 – PECO Energy Co.

Version 26.0.0  
Effective April 9, 2024  
(Accepted in Docket No. ER24-843-000)

**SCHEDULE 12 – APPENDIX A**

**(8) PECO Energy Company**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2130                              | Replace Waneeta 138 kV breaker '15' with 63 kA rated breaker   | PECO (100%)             |
| b2131                              | Replace Waneeta 138 kV breaker '35' with 63 kA rated breaker   | PECO (100%)             |
| b2132                              | Replace Waneeta 138 kV breaker '875' with 63 kA rated breaker  | PECO (100%)             |
| b2133                              | Replace Waneeta 138 kV breaker '895' with 63 kA rated breaker  | PECO (100%)             |
| b2134                              | Plymouth Meeting 230 kV breaker '115' with 63 kA rated breaker   | PECO (100%)             |
| b2222                              | Install a second Eddystone 230/138 kV transformer  | PECO (100%)             |
| b2222.1                            | Replace the Eddystone 138 kV #205 breaker with 63 kA breaker   | PECO (100%)             |
| b2222.2                            | Increase Rating of Eddystone #415 138 kV Breaker   | PECO (100%)             |
| b2236                              | 50 MVAR reactor at Buckingham 230 kV   | PECO (100%)             |
| b2527                              | Replace Whitpain 230 kV breaker '155' with 80 kA breaker   | PECO (100%)             |
| b2528                              | Replace Whitpain 230 kV breaker '525' with 80 kA breaker   | PECO (100%)             |
| b2529                              | Replace Whitpain 230 kV breaker '175' with 80 kA breaker   | PECO (100%)             |
| b2549                              | Replace terminal equipment inside Chichester substation on the 220-36 (Chichester – Eddystone) 230 kV line | PECO (100%)             |

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2550                              | Replace terminal equipment inside Nottingham substation on the 220-05 (Nottingham – Daleville- Bradford) 230 kV line         | PECO (100%)  |
| b2551                              | Replace terminal equipment inside Llanerch substation on the 130-45 (Eddystone to Llanerch) 138 kV line                      | PECO (100%)  |
| b2572                              | Replace the Peach Bottom 500 kV ‘#225’ breaker with a 63 kA breaker  | PECO (100%)  |
| b2694                              | Increase ratings of Peach Bottom 500/230 kV transformer to 1479 MVA normal/1839 MVA emergency                                | AEC (3.97%)/ AEP (5.77%)/ APS (4.27%)/ ATSI (6.15%)/ BGE (1.63%)/ ComEd (0.72%)/ Dayton (1.06%)/ DEOK (1.97%)/ DL (2.25%)/ Dominion (0.35%)/ DPL (14.29%)/ ECP** (0.69%)/ EKPC (0.39%)/ HTP*** (0.96%)/ JCPL (6.84%) MetEd (3.28%)/ NEPTUNE* (2.14%)/ PECO (16.42%)/ PENELEC (3.94%)/ PPL (8.32%)/ PSEG (14.13%)/ RE (0.44%) |
| b2752.2                            | Tie in new Furnace Run substation to Peach Bottom – TMI 500 kV   | 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%)  |
| b2752.3                            | Upgrade terminal equipment and required relay communication at Peach Bottom 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%)  |

\*Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2766.2                            | Upgrade substation equipment at Peach Bottom 500 kV to increase facility rating to 2826 MVA normal and 3525 MVA emergency | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p><b>DFAX Allocation:</b><br/> AEC (0.72%) / APS (11.06%) / ATSI (1.43%) / BGE (34.25%) / DPL (1.83%) / PECO (1.80%) / PEPCO (35.49%) / PSEG (12.92%) / RE (0.50%)</p> |

\*Neptune Regional Transmission System, LLC

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2774                              | Reconductor the Emilie - Falls 138 kV line, and replace station cable and relay | PECO (100%)             |
| b2775                              | Reconductor the Falls - U.S. Steel 138 kV line                                  | PECO (100%)             |
| b2850                              | Replace the Waneeta 230 kV "285" with 63 kA breaker                             | PECO (100%)             |
| b2852                              | Replace the Chichester 230 kV "195" with 63 kA breaker                          | PECO (100%)             |
| b2854                              | Replace the North Philadelphia 230 kV "CS 775" with 63 kA breaker               | PECO (100%)             |
| b2855                              | Replace the North Philadelphia 230 kV "CS 885" with 63 kA breaker               | PECO (100%)             |
| b2856                              | Replace the Parrish 230 kV "CS 715" with 63 kA breaker                          | PECO (100%)             |
| b2857                              | Replace the Parrish 230 kV "CS 825" with 63 kA breaker                          | PECO (100%)             |
| b2858                              | Replace the Parrish 230 kV "CS 935" with 63 kA breaker                          | PECO (100%)             |
| b2859                              | Replace the Plymouth Meeting 230 kV "215" with 63 kA breaker                    | PECO (100%)             |
| b2860                              | Replace the Plymouth Meeting 230 kV "235" with 63 kA breaker                    | PECO (100%)             |
| b2861                              | Replace the Plymouth Meeting 230 kV "325" with 63 kA breaker                    | PECO (100%)             |
| b2862                              | Replace the Grays Ferry 230 kV "705" with 63 kA breaker                         | PECO (100%)             |

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2863                              | Replace the Grays Ferry 230 kV "985" with 63 kA breaker   | PECO (100%)             |
| b2864                              | Replace the Grays Ferry 230 kV "775" with 63 kA breaker   | PECO (100%)             |
| b2923                              | Replace the China Tap 230 kV 'CS 15' breaker with a 63 kA breaker   | PECO (100%)             |
| b2924                              | Replace the Emilie 230 kV 'CS 15' breaker with 63 kA breaker  | PECO (100%)             |
| b2925                              | Replace the Emilie 230 kV 'CS 25' breaker with 63 kA breaker  | PECO (100%)             |
| b2926                              | Replace the Chichester 230 kV '215' breaker with 63 kA breaker  | PECO (100%)             |
| b2927                              | Replace the Plymouth Meeting 230 kV '125' breaker with 63 kA breaker  | PECO (100%)             |
| b2985                              | Replace the 230 kV CB #225 at Linwood Substation (PECO) with a double circuit breaker (back to back circuit breakers in one device) | PECO (100%)             |
| b3041                              | Peach Bottom – Furnace Run 500 kV terminal equipment  | PECO (100%)             |
| b3120                              | Replace the Whitpain 230 kV breaker "125" with a 63 kA breaker  | PECO (100%)             |
| b3138                              | Move 2 MVA load from the Roxborough to Bala substation. Adjust the tap setting on the Master 138/69 kV transformer #2               | PECO (100%)             |
| b3146                              | Upgrade the Richmond 69 kV breaker "140" with 40 kA breaker   | PECO (100%)             |

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3697                              | Replace station conductor and metering inside Whitpain and Plymouth 230 kV substations to increase the ratings of the Whitpain – Plymouth 230 kV line | PECO (100%)   |
| b3728.2                            | Replace 4 meters and bus work inside Peach Bottom substation on the 500 kV Line 5012 (Conastone – Peach Bottom)                                       | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPSCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (3.94%) / ATSI (0.03%) / BGE (20.78%) / DL (0.01%) / DPL (0.02%) / Dominion (31.75%) / JCPL (6.99%) / NEPTUNE* (0.80%) / PECO (0.98%) / PEPSCO (17.52%) / PPL (2.69%) / PSEG (13.93%) / RE (0.56%)</p> |

\*Neptune Regional Transmission System, LLC

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s)  |
|------------------------------------|--|--|--|
| b3780.1                            | Peach Bottom North upgrades – 500 kV substation work. Add 3x 500 kV breakers to form a breaker-and-a-half bay  |  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     ATSI (0.02%) / BGE (28.40%) / Dominion (33.36%) / DPL (0.02%) / JCPL (6.36%) / NEPTUNE* (0.73%) / PECO (0.01%) / PEPCO (17.90%) / PSEG (12.69%) / RE (0.51%)</p> |
| b3780.2                            | Peach Bottom to Graceton (PECO) new 500 kV transmission line. New rating: 4503 MVA SN/5022 MVA SE  |  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     ATSI (0.02%) / BGE (28.40%) / Dominion (33.36%) / DPL (0.02%) / JCPL (6.36%) / NEPTUNE* (0.73%) / PECO (0.01%) / PEPCO (17.90%) / PSEG (12.69%) / RE (0.51%)</p> |
| b3780.3                            | West Cooper substation work includes 3 breaker ring, 500/230 kV transformer, control house, substation build, and reconfigure Cooper distribution station feed. New transformer rating: 1559 MVA SN/ 1940 MVA SE |  | DPL (41.52%) / PECO (58.48%)   |

\*Neptune Regional Transmission System, LLC

**PECO Energy Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| <p><u>b3800.5</u></p>              | <p><u>Replace terminal equipment at Peach Bottom on Peach Bottom - TMI 500 kV line</u></p> | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>AEC (6.40%) / BGE (20.32%) / DPL (9.76%) / JCPL (17.57%) / NEPTUNE* (1.73%) / PECO (6.33%) / PEPCO (7.48%) / PSEG (29.15%) / RE (1.26%)</u></p> |
| <p><u>b3800.31</u></p>             | <p><u>Build new North Delta – High Ridge 500 kV line</u></p>                               | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>Dominion (60.85%) / DPL (0.01%) / PECO (0.01%) / PEPCO (29.24%) / PSEG (9.48%) / RE (0.41%)</u></p>   |

\*Neptune Regional Transmission System, LLC

**PECO Energy Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                        |  |  |  |
|------------------------|--|--|--|
| <p><u>b3800.35</u></p> | <p><u>Rebuild 5012 (existing Peach Bottom - Conastone) (new North Delta - Graceton PECO) 500 kV line on single circuit structures within existing ROW and cut into North Delta 500 kV and Graceton 500 kV stations</u></p>                         |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>BGE (49.42%) / Dominion (31.22%) / DPL (0.01%) / JCPL (0.01%) / PECO (3.75%) / PEPCO (15.57%) / PSEG (0.02%)</u></p>             |
| <p><u>b3800.42</u></p> | <p><u>Peach Bottom North 500 kV bus upgrade - Replace 11 instances of strain bus conductor used for breaker drops or CT drops, seven 500 kV disconnect switches, seven Free Standing CTs, one 500 kV breaker, two breaker relays or meters</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>BGE (62.82%) / DPL (7.25%) / JCPL (0.09%) / NEPTUNE* (0.01%) / PECO (0.01%) / PEPCO (29.63%) / PSEG (0.18%) / RE (0.01%)</u></p> |

\*Neptune Regional Transmission System, LLC

**PECO Energy Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                        |  |  |  |
|------------------------|--|--|--|
| <p><u>b3800.44</u></p> | <p><u>North Delta termination for the North Delta - High Ridge 500 kV line (PECO work)</u></p>             |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>Dominion (60.85%) / DPL (0.01%) / PECO (0.01%) / PEPCO (29.24%) / PSEG (9.48%) / RE (0.41%)</u></p>  |
| <p><u>b3800.45</u></p> | <p><u>North Delta 500 kV termination for the Rock Springs 500 kV line (5034/5014 line) (PECO work)</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>AEC (17.65%) / BGE (4.43%) / Dominion (9.87%) / DPL (22.25%) / JCPL (3.16%) / NEPTUNE* (0.36%) / PECO (2.98%) / PENELEC (0.44%) / PEPCO (3.80%) / PPL (5.99%) / PSEG (27.86%) / RE (1.21%)</u></p> |

\*Neptune Regional Transmission System, LLC

**PECO Energy Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                        |   |  |   |
|------------------------|---|--|---|
| <p><u>b3800.46</u></p> | <p><u>North Delta 500 kV termination for the new Peach Bottom - North Delta 500 kV line (PECO work)</u></p>   |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>AEC (11.03%) / BGE (37.40%) / DPL (22.91%) / PEPCO (28.66%)</u></p> |
| <p><u>b3800.47</u></p> | <p><u>Build new Peach Bottom South - North Delta 500 kV line – cut in to Peach Bottom tie No.1 and extending line to North Delta (Approximately 1.25 miles new ROW)</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>AEC (11.03%) / BGE (37.40%) / DPL (22.91%) / PEPCO (28.66%)</u></p> |

\*Neptune Regional Transmission System, LLC

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 9 – PPL Electric Utilities

Version 27.0.0  
Effective January 1, 2024  
(Accepted in Docket No. ER24-786-000)

**SCHEDULE 12 – APPENDIX A**

**(9) PPL Electric Utilities Corporation**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b1813.12                           | Replace the Blooming Grove 230 kV breaker 'Peckville'                    | PPL (100%)  |
| b2223                              | Rebuild and reconductor 2.6 miles of the Sunbury - Dauphin 69 kV circuit | PPL (100%)  |
| b2224                              | Add a 2nd 150 MVA 230/69 kV transformer at Springfield                   | PPL (100%)  |
| b2237                              | 150 MVAR shunt reactor at Alburdis 500 kV                                | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     PPL (100%)</p> |
| b2238                              | 100 MVAR shunt reactor at Elimspport 230 kV                              | PPL (100%)  |

\* Neptune Regional Transmission System, LLC

**PPL Electric Utilities Corporation (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2269   | Rebuild approximately 23.7 miles of the Susquehanna - Jenkins 230 kV circuit. This replaces a temporary SPS that is already planned to mitigate the violation until this solution is implemented |  | PPL (100%) |
| b2282   | Rebuild the Siegfried-Frackville 230 kV line   |  | PPL (100%) |
| b2406.1 | Rebuild Stanton-Providence 69 kV 2&3 9.5 miles with 795 SCSR   |  | PPL (100%) |
| b2406.2 | Reconductor 7 miles of the Lackawanna - Providence 69 kV #1 and #2 with 795 ACSR   |  | PPL (100%) |
| b2406.3 | Rebuild SUB2 Tap 1 (Lackawanna - Scranton 1) 69 kV 1.5 miles 556 ACSR  |  | PPL (100%) |
| b2406.4 | Rebuild SUB2 Tap 2 (Lackawanna - Scranton 1) 69 kV 1.6 miles 556 ACSR  |  | PPL (100%) |
| b2406.5 | Create Providence - Scranton 69 kV #1 and #2, 3.5 miles with 795 ACSR  |  | PPL (100%) |
| b2406.6 | Rebuild Providence 69 kV switchyard  |  | PPL (100%) |
| b2406.7 | Install 2 - 10.8 MVAR capacitors at EYNO 69 kV   |  | PPL (100%) |
| b2406.8 | Rebuild Stanton 230 kV yard  |  | PPL (100%) |

**PPL Electric Utilities Corporation (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |  |
|---------|---|--|--|
| b2446   | Replace wave trap and protective relays at Montour  |  | PPL (100%)   |
| b2447   | Replace wave trap and protective relays at Montour  |  | PPL (100%)   |
| b2448   | Install a 2nd Sunbury 900 MVA 500-230 kV transformer and associated equipment   |  | PPL (100%)   |
| b2552.2 | Reconductor the North Meshoppen - Oxbow – Lackawanna 230 kV circuit and upgrade terminal equipment (PPL portion)  |  | PENELEC ( <del>72.85</del> 98.86%) / PPL ( <del>27.15</del> 1.14%) |
| b2574   | Replace the Sunbury 230 kV ‘MONTOUR NORT’ breaker with a 63 kA breaker  |  | PPL (100%)   |
| b2690   | Reconductor two spans of the Graceton – Safe Harbor 230 kV transmission line. Includes termination point upgrades   |  | PPL (100%)   |
| b2691   | Reconductor three spans limiting Brunner Island – Yorkana 230 kV line, add 2 breakers to Brunner Island switchyard, upgrade associated terminal equipment |  | PPL (100%)   |

**PPL Electric Utilities Corporation (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |   |
|---------|--|--|---|
| b2716   | Add a 200 MVAR shunt reactor at Lackawanna 500 kV substation                                     |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP<br/> (<del>13.68</del><u>14.29</u>%) / APS<br/> (<del>5.765</del><u>8.2</u>%) / ATSI (<del>8.047</del><u>4.9</u>%)<br/> / BGE (<del>4.114</del><u>0.1</u>%) / ComEd<br/> (<del>13.39</del><u>14.06</u>%) / Dayton<br/> (<del>2.122</del><u>0.3</u>%) / DEOK<br/> (<del>3.253</del><u>3.21</u>%) / DL (<del>1.711</del><u>1.59</u>%) /<br/> DPL (<del>2.602</del><u>2.55</u>%) / Dominion<br/> (<del>13.32</del><u>13.89</u>%) / EKPC<br/> (<del>1.892</del><u>3.5</u>%) / JCPL (<del>3.863</del><u>3.59</u>%) /<br/> ME (0.42%) / OVEC (<del>0.080</del><u>0.06</u>%) /<br/> PECO (<del>5.405</del><u>1.1</u>%) / PENELEC<br/> (<del>1.781</del><u>1.73</u>%) / PEPCO<br/> (<del>3.673</del><u>6.8</u>%) / PPL (<del>4.724</del><u>4.3</u>%) /<br/> PSEG (<del>6.395</del><u>9.9</u>%) / RE<br/> (<del>0.260</del><u>2.4</u>%)</p> <p><b>DFAX Allocation:</b><br/> PPL (100%)</p> |
| b2754.1 | Install 7 miles of optical ground wire (OPGW) between Gilbert and Springfield 230 kV substations |  | PPL (100%)  |
| b2754.4 | Use ~ 40 route miles of existing fibers on PPL 230 kV system to establish direct fiber circuits  |  | PPL (100%)  |
| b2754.5 | Upgrade relaying at Martins Creek 230 kV   |  | PPL (100%)  |
| b2756   | Install 2% reactors at Martins Creek 230 kV  |  | PPL (100%)  |
| b2813   | Expand existing Lycoming 69 kV yard to double bus double breaker arrangement                     |  | PPL (100%)  |

\* Neptune Regional Transmission System, LLC

**PPL Electric Utilities Corporation (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |  |
|-------|---|--|--|
| b2824 | Reconfigure/Expand the Lackawanna 500 kV substation by adding a third bay with three breakers   |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP<br/> (<del>13.68</del><u>14.29</u>%) / APS<br/> (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%)<br/> / BGE (<del>4.11</del><u>4.01</u>%) / ComEd<br/> (<del>13.39</del><u>14.06</u>%) / Dayton<br/> (<del>2.12</del><u>2.03</u>%) / DEOK<br/> (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) /<br/> DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/> (<del>13.32</del><u>13.89</u>%) / EKPC<br/> (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) /<br/> ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE*<br/> (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) /<br/> PECO (<del>5.40</del><u>5.11</u>%) / PENELEC<br/> (<del>1.78</del><u>1.73</u>%) / PEPSCO<br/> (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) /<br/> PSEG (<del>6.39</del><u>5.99</u>%) / RE<br/> (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> PPL (100%)</p> |
| b2838 | Build a new 230/69 kV substation by tapping the Montour – Susquehanna 230 kV double circuits and Berwick – Hunlock & Berwick – Colombia 69 kV circuits    |  | PPL (100%)   |
| b2979 | Replace Martins Creek 230 kV circuit breakers with 80 kA rating   |  | PPL (100%)   |
| b3221 | Replace terminal equipment (bus conductor) on the 230 kV side of the Steel City 500/230 kV Transformer #1   |  | PPL (100%)   |
| b3222 | Install one (1) 7.2 MVAR fixed cap bank on the Lock Haven – Reno 69 kV line and one (1) 7.2 MVAR fixed cap bank on the Lock Haven – Flemington 69 kV line |  | PPL (100%)   |

|  |  |  |  |
|--|--|--|--|
|  | near the Flemington<br>69/12 kV substation |  |  |
|--|--|--|--|

\* Neptune Regional Transmission System, LLC

**PPL Electric Utilities Corporation (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3664                              | Replace the limiting 230 kV T2 transformer leads, bay conductor and bus conductor with double bundle 1590 ACSR at the Juniata station; Replace the limiting 1200 A MODs on the bus tie breaker with 3000 A MODs | PPL (100%)   |
| b3698                              | Reconductor the 14.2 miles of the existing Juniata –Cumberland 230 kV line with 1272 ACSS/TW HS285 "Pheasant" conductor   | AEC (4.17%) / BGE (13.18%) / DEOK (1.22%) / Dominion (3.25%) / DPL (9.14%) / ECP** (0.11%) / EKPC (0.22%) / HTP*** (0.20%) / JCPL (1.15%) / ME (27.02%) / NEPTUNE* (0.64%) / PECO (18.88%) / PEPCO (4.68%) / PSEG (16.14%) |
| b3715.1                            | Install a new 300 MVA 230/115 kV transformer at the existing PPL Williams Grove substation  | ME (100%)  |
| b3715.2                            | Construct a new approximately 3.4 miles 115 kV single circuit transmission line from Williams Grove to Allen substation   | ME (100%)  |

\* Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

**PPL Electric Utilities Corporation (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       | Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s) |
|-------|--|----------------------------|-------------------------|
| b3774 | Upgrade terminal equipment at Brunner Island station on Brunner Island – Yorkana 230 kV line |                            | PPL (100%)              |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 9 – PPL Electric Utilities

Version 28.0.0  
Effective April 9, 2024  
(Accepted in Docket No. ER24-843-000)

**SCHEDULE 12 – APPENDIX A**

**(9) PPL Electric Utilities Corporation**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b1813.12                           | Replace the Blooming Grove 230 kV breaker 'Peckville'                    | PPL (100%)  |
| b2223                              | Rebuild and reconductor 2.6 miles of the Sunbury - Dauphin 69 kV circuit | PPL (100%)  |
| b2224                              | Add a 2nd 150 MVA 230/69 kV transformer at Springfield                   | PPL (100%)  |
| b2237                              | 150 MVAR shunt reactor at Alburdis 500 kV                                | <b>Load-Ratio Share Allocation:</b><br>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPSCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%) |
|                                    |  | <b>DFAX Allocation:</b><br>PPL (100%)   |
| b2238                              | 100 MVAR shunt reactor at Elimsport 230 kV                               | PPL (100%)  |

\* Neptune Regional Transmission System, LLC

**PPL Electric Utilities Corporation (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2269   | Rebuild approximately 23.7 miles of the Susquehanna - Jenkins 230 kV circuit. This replaces a temporary SPS that is already planned to mitigate the violation until this solution is implemented |  | PPL (100%) |
| b2282   | Rebuild the Siegfried-Frackville 230 kV line   |  | PPL (100%) |
| b2406.1 | Rebuild Stanton-Providence 69 kV 2&3 9.5 miles with 795 SCSR   |  | PPL (100%) |
| b2406.2 | Reconductor 7 miles of the Lackawanna - Providence 69 kV #1 and #2 with 795 ACSR   |  | PPL (100%) |
| b2406.3 | Rebuild SUB2 Tap 1 (Lackawanna - Scranton 1) 69 kV 1.5 miles 556 ACSR  |  | PPL (100%) |
| b2406.4 | Rebuild SUB2 Tap 2 (Lackawanna - Scranton 1) 69 kV 1.6 miles 556 ACSR  |  | PPL (100%) |
| b2406.5 | Create Providence - Scranton 69 kV #1 and #2, 3.5 miles with 795 ACSR  |  | PPL (100%) |
| b2406.6 | Rebuild Providence 69 kV switchyard  |  | PPL (100%) |
| b2406.7 | Install 2 - 10.8 MVAR capacitors at EYNO 69 kV   |  | PPL (100%) |
| b2406.8 | Rebuild Stanton 230 kV yard  |  | PPL (100%) |

**PPL Electric Utilities Corporation (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |                                 |
|---------|---|--|---------------------------------|
| b2446   | Replace wave trap and protective relays at Montour  |  | PPL (100%)                      |
| b2447   | Replace wave trap and protective relays at Montour  |  | PPL (100%)                      |
| b2448   | Install a 2nd Sunbury 900 MVA 500-230 kV transformer and associated equipment   |  | PPL (100%)                      |
| b2552.2 | Reconductor the North Meshoppen - Oxbow – Lackawanna 230 kV circuit and upgrade terminal equipment (PPL portion)  |  | PENELEC (72.85%) / PPL (27.15%) |
| b2574   | Replace the Sunbury 230 kV ‘MONTOUR NORT’ breaker with a 63 kA breaker  |  | PPL (100%)                      |
| b2690   | Reconductor two spans of the Graceton – Safe Harbor 230 kV transmission line. Includes termination point upgrades   |  | PPL (100%)                      |
| b2691   | Reconductor three spans limiting Brunner Island – Yorkana 230 kV line, add 2 breakers to Brunner Island switchyard, upgrade associated terminal equipment |  | PPL (100%)                      |

**PPL Electric Utilities Corporation (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2716                              | Add a 200 MVAR shunt reactor at Lackawanna 500 kV substation                                     | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     PPL (100%)</p> |
| b2754.1                            | Install 7 miles of optical ground wire (OPGW) between Gilbert and Springfield 230 kV substations | PPL (100%)   |
| b2754.4                            | Use ~ 40 route miles of existing fibers on PPL 230 kV system to establish direct fiber circuits  | PPL (100%)   |
| b2754.5                            | Upgrade relaying at Martins Creek 230 kV   | PPL (100%)   |
| b2756                              | Install 2% reactors at Martins Creek 230 kV  | PPL (100%)   |
| b2813                              | Expand existing Lycoming 69 kV yard to double bus double breaker arrangement                     | PPL (100%)   |

\* Neptune Regional Transmission System, LLC

**PPL Electric Utilities Corporation (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2824                              | Reconfigure/Expand the Lackawanna 500 kV substation by adding a third bay with three breakers   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     PPL (100%)</p> |
| b2838                              | Build a new 230/69 kV substation by tapping the Montour – Susquehanna 230 kV double circuits and Berwick – Hunlock & Berwick – Colombia 69 kV circuits  | PPL (100%)   |
| b2979                              | Replace Martins Creek 230 kV circuit breakers with 80 kA rating   | PPL (100%)   |
| b3221                              | Replace terminal equipment (bus conductor) on the 230 kV side of the Steel City 500/230 kV Transformer #1   | PPL (100%)   |
| b3222                              | Install one (1) 7.2 MVAR fixed cap bank on the Lock Haven – Reno 69 kV line and one (1) 7.2 MVAR fixed cap bank on the Lock Haven – Flemington 69 kV line near the Flemington 69/12 kV substation | PPL (100%)   |

\* Neptune Regional Transmission System, LLC

**PPL Electric Utilities Corporation (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3664                              | Replace the limiting 230 kV T2 transformer leads, bay conductor and bus conductor with double bundle 1590 ACSR at the Juniata station; Replace the limiting 1200 A MODs on the bus tie breaker with 3000 A MODs | PPL (100%)   |
| b3698                              | Reconductor the 14.2 miles of the existing Juniata –Cumberland 230 kV line with 1272 ACSS/TW HS285 "Pheasant" conductor   | AEC (4.17%) / BGE (13.18%) / DEOK (1.22%) / Dominion (3.25%) / DPL (9.14%) / ECP** (0.11%) / EKPC (0.22%) / HTP*** (0.20%) / JCPL (1.15%) / ME (27.02%) / NEPTUNE* (0.64%) / PECO (18.88%) / PEPCO (4.68%) / PSEG (16.14%) |
| b3715.1                            | Install a new 300 MVA 230/115 kV transformer at the existing PPL Williams Grove substation  | ME (100%)  |
| b3715.2                            | Construct a new approximately 3.4 miles 115 kV single circuit transmission line from Williams Grove to Allen substation   | ME (100%)  |

\* Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

**PPL Electric Utilities Corporation (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |  |
|---------|---|--|--|
| b3774   | Upgrade terminal equipment at Brunner Island station on Brunner Island – Yorkana 230 kV line                    |  | PPL (100%)   |
| b3800.1 | <u>Build a New Otter Creek 500 kV (Collinsville) switching station with two bay three breaker configuration</u> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) /</u><br/> <u>APS (5.76%) / ATSI (8.04%) /</u><br/> <u>BGE (4.11%) / ComEd (13.39%)</u><br/> <u>/ Dayton (2.12%) / DEOK</u><br/> <u>(3.25%) / DL (1.71%) /</u><br/> <u>Dominion (13.32%) / DPL</u><br/> <u>(2.60%) / EKPC (1.89%) / JCPL</u><br/> <u>(3.86%) / ME (1.90%) /</u><br/> <u>NEPTUNE* (0.42%) / OVEC</u><br/> <u>(0.08%) / PECO (5.40%) /</u><br/> <u>PENELEC (1.78%) / PEPCO</u><br/> <u>(3.67%) / PPL (4.72%) / PSEG</u><br/> <u>(6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (13.16%) / BGE (0.71%) /</u><br/> <u>Dominion (74.28%) / DPL</u><br/> <u>(0.36%) / PECO (0.68%) /</u><br/> <u>PEPCO (10.59%) / PPL (0.22%)</u></p> |

\* Neptune Regional Transmission System, LLC

**PPL Electric Utilities Corporation (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                       |   |  |  |
|-----------------------|---|--|--|
| <p><u>b3800.3</u></p> | <p><u>New Otter Creek (Collinsville) to Doubs 500 kV Line (Otter Creek 500 kV - MD Border). Rebuild and expand existing approximately 12 miles of Otter Creek - Conastone 230 kV line to become a double-circuit 500 and 230 kV lines</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (13.16%) / BGE (0.71%) / Dominion (74.28%) / DPL (0.36%) / PECO (0.68%) / PEPCO (10.59%) / PPL (0.22%)</u></p> |
|-----------------------|---|--|--|

\* Neptune Regional Transmission System, LLC

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Schedule 12-Appendix A  
Section 12 – Public Service Electric & Gas Co.

Version 31.0.0  
Effective January 1, 2024  
(Accepted in Docket No. ER24-786-000)

**SCHEDULE 12 – APPENDIX A**

**(12) Public Service Electric and Gas Company**

| Required Transmission 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%)             |

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)                    |
|------------------------------------|--|--|
| b2276                              | Eliminate the Sewaren 138 kV bus by installing a new 230 kV bay at Sewaren 230 kV  | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b2276.1                            | Convert the two 138 kV circuits from Sewaren – Metuchen to 230 kV circuits including Lafayette and Woodbridge substation               | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b2276.2                            | Reconfigure the Metuchen 230 kV station to accommodate the two converted circuits  | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b2290                              | Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook 230 kV substations on the Raritan River - Middlesex (I-1023) circuit | PSEG (100%)                                |
| b2291                              | Replace circuit switcher at Lake Nelson 230 kV substation on the Raritan River - Middlesex (W-1037) circuit                            | PSEG (100%)                                |
| b2295                              | Replace the Salem 500 kV breaker 10X with 63 kA breaker  | PSEG (100%)                                |
| b2421                              | Install all 69 kV lines to interconnect Plainfield, Greenbrook, and Bridgewater stations and establish the 69 kV network               | PSEG (100%)                                |
| b2421.1                            | Install two 18 MVAR capacitors at Plainfield and S. Second St substation   | PSEG (100%)                                |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2421.2                            | Install a second four (4) breaker 69 kV 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 | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b><br/>           PSEG (<del>10095.85</del>%) / RE (4.15%)</p> |
| b2436.21                           | Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades    | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) /</p>  |

|  |  |  |  |
|--|--|--|--|
|  |  |  | PSEG ( <del>6.40</del> <u>5.99</u> %) / RE<br>( <del>0.27</del> <u>0.24</u> %)                   |
|  |  |  | <b>DFAX Allocation:</b><br>PSEG ( <del>100</del> <u>95.85</u> %) / <u>RE</u><br>( <u>4.15</u> %) |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required 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 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (<del>10095.85</del>%) / RE (4.15%)</p> |
| b2436.33                           | Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades           | PSEG ( <del>96.2695.85</del> %) / RE ( <del>3.744.15</del> %)  |
| b2436.34                           | Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades        | PSEG ( <del>95.8596.26</del> %) / RE ( <del>3.744.15</del> %)  |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2436.50                           | Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades   | PSEG ( <del>10095.85%</del> ) / RE (4.15%)  |
| 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 ( <del>95.8596.26%</del> ) / RE (3.744.15%)  |
| b2436.70                           | Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades  | PSEG ( <del>10095.85%</del> ) / RE (4.15%)  |
| 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    | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (<del>1.671.65%</del>) / AEP (<del>13.9414.29%</del>) / APS (<del>5.645.82%</del>) / ATSI (<del>8.027.49%</del>) / BGE (<del>4.124.01%</del>) / ComEd (<del>13.4614.06%</del>) / Dayton (<del>2.122.03%</del>) / DEOK (<del>3.373.21%</del>) / DL (<del>1.761.59%</del>) / DPL (2.55%) / Dominion (<del>12.9713.89%</del>) / EKPC (<del>1.812.35%</del>) / JCPL (<del>3.923.59%</del>) / ME (<del>1.951.81%</del>) / NEPTUNE* (<del>0.240.42%</del>) / OVEC (<del>0.070.06%</del>) / PECO (<del>5.395.11%</del>) / PENELEC (<del>1.841.73%</del>) / PEPSCO (<del>3.713.68%</del>) / PPL (<del>4.784.43%</del>) / PSEG (<del>6.405.99%</del>) / RE (<del>0.270.24%</del>)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (<del>96.2695.85%</del>) / RE (3.744.15%)</p> |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2436.83                           | Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (<del>96.2695.85</del>%) / RE (<del>3.744.15</del>%)</p> |
| b2436.84                           | Convert the Bayway – Linden “W” 138 kV circuit to 345 kV and any associated substation upgrades | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b></p>  |

|  |  |  |  |
|--|--|--|--|
|  |  |  | PSEG ( <del>96.26</del> <u>95.85</u> %) / RE<br>( <del>3.744</del> <u>.15</u> %) |
|--|--|--|--|

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2436.85                           | Convert the Bayway – Linden “M” 138 kV circuit to 345 kV and any associated substation upgrades                | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (<del>1.671.65%</del>) / AEP (<del>13.9414.29%</del>) / APS (<del>5.645.82%</del>) / ATSI (<del>8.027.49%</del>) / BGE (<del>4.124.01%</del>) / ComEd (<del>13.4614.06%</del>) / Dayton (<del>2.122.03%</del>) / DEOK (<del>3.373.21%</del>) / DL (<del>1.761.59%</del>) / DPL (2.55%) / Dominion (<del>12.9713.89%</del>) / EKPC (<del>1.812.35%</del>) / JCPL (<del>3.923.59%</del>) / ME (<del>1.951.81%</del>) / NEPTUNE* (<del>0.240.42%</del>) / OVEC (<del>0.070.06%</del>) / PECO (<del>5.395.11%</del>) / PENELEC (<del>1.841.73%</del>) / PEPCO (<del>3.713.68%</del>) / PPL (<del>4.784.43%</del>) / PSEG (<del>6.405.99%</del>) / RE (<del>0.270.24%</del>)</p> <p><b>DFAX Allocation:</b><br/>           PSEG (<del>96.2695.85%</del>) / RE (<del>3.744.15%</del>)</p> |
| b2436.90                           | Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (<del>1.671.65%</del>) / AEP (<del>13.9414.29%</del>) / APS (<del>5.645.82%</del>) / ATSI (<del>8.027.49%</del>) / BGE (<del>4.124.01%</del>) / ComEd (<del>13.4614.06%</del>) / Dayton (<del>2.122.03%</del>) / DEOK (<del>3.373.21%</del>) / DL (<del>1.761.59%</del>) / DPL (2.55%) / Dominion (<del>12.9713.89%</del>) / EKPC (<del>1.812.35%</del>) / JCPL (<del>3.923.59%</del>) / ME (<del>1.951.81%</del>) / NEPTUNE* (<del>0.240.42%</del>) / OVEC (<del>0.070.06%</del>) / PECO (<del>5.395.11%</del>) / PENELEC (<del>1.841.73%</del>) / PEPCO (<del>3.713.68%</del>) / PPL (<del>4.784.43%</del>) / PSEG (<del>6.405.99%</del>) / RE (<del>0.270.24%</del>)</p> <p><b>DFAX Allocation:</b><br/>           PSEG (100%)</p>   |

|          |  |  |             |
|----------|--|--|-------------|
| 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

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2437.10                           | New Bergen 345/230 kV transformer and any associated substation upgrades    | PSEG ( <del>100</del> 95.85%) / RE (4.15%)                     |
| b2437.11                           | New Bergen 345/138 kV transformer #1 and any associated substation upgrades | PSEG ( <del>100</del> 95.85%) / RE (4.15%)                     |
| b2437.20                           | New Bayway 345/138 kV transformer #1 and any associated substation upgrades | PSEG ( <del>100</del> 95.85%) / RE (4.15%)                     |
| b2437.21                           | New Bayway 345/138 kV transformer #2 and any associated substation upgrades | PSEG ( <del>100</del> 95.85%) / RE (4.15%)                     |
| b2437.30                           | New Linden 345/230 kV transformer and any associated substation upgrades    | PSEG ( <del>96.26</del> 95.85%) / RE ( <del>3.744</del> 1.15%) |
| b2437.33                           | New Bayonne 345/69 kV transformer and any associated substation upgrades    | PSEG ( <del>100</del> 95.85%) / RE (4.15%)                     |
| b2438                              | Install two reactors at Tosco 230 kV  | PSEG (100%)  |
| b2439                              | Replace the Tosco 138 kV breaker 'CB1/2 (CBT)' with 63 kA                   | PSEG (100%)  |
| b2474                              | Rebuild Athenia 138 kV to 80 kA   | 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%)  |

**Public Service Electric and Gas Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|                |  |  |   |
|----------------|--|--|---|
| <p>b2633.3</p> | <p>Install an SVC at New Freedom 500 kV substation</p>                         |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b><br/> AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p> |
| <p>b2633.4</p> | <p>Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)</p> |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p>   |

|  |  |  |   |
|--|--|--|---|
|  |  |  | <p><b>DFAX Allocation:</b><br/> AEC (8.01%) / BGE (1.94%) /<br/> DPL (12.99%) / JCPL (13.85%)<br/> / ME (5.88%) / NEPTUNE*<br/> (3.45%) / PECO (17.62%) / PPL<br/> (14.85%) / PSEG (20.79%) / RE<br/> (0.62%)</p> |
|--|--|--|---|

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required 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 (8.01%) / BGE (1.94%) / DPL (12.99%) / JCPL (13.85%) / ME (5.88%) / NEPTUNE* (3.45%) / PECO (17.62%) / PPL (14.85%) / PSEG (20.79%) / RE (0.62%)  |
| 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 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b><br/>                     AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p> |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required 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  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPSCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (100%)</p> |
| 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 Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)                                   |
|------------------------------------|--|---|
| b2712                              | Replace the Bergen 138 kV '40P' breaker with 80 kA breaker                             | PSEG (100%)   |
| b2713                              | Replace the Bergen 138 kV '90P' breaker with 80 kA 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 ( <del>100</del> <u>95.85</u> %) / <u>RE</u> (4.15%) |
| b2810.1                            | Install second 230/69 kV transformer at Cedar Grove                                    | PSEG ( <del>100</del> <u>95.85</u> %) / <u>RE</u> (4.15%) |
| b2810.2                            | Build a new 69 kV circuit from Cedar Grove to Great Notch                              | PSEG ( <del>100</del> <u>95.85</u> %) / <u>RE</u> (4.15%) |
| b2811                              | Build 69 kV circuit from Locust Street to Delair                                       | PSEG ( <del>100</del> <u>95.85</u> %) / <u>RE</u> (4.15%) |
| b2812                              | Construct River Road to Tonnelle Avenue 69kV Circuit                                   | PSEG ( <del>100</del> <u>95.85</u> %) / <u>RE</u> (4.15%) |
| 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                          |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2835.1                            | Convert the R-1318 and Q-1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit (Brunswick – Meadow Road)        | AEC ( <del>30.19</del> <u>14.94</u> %) / PECO ( <del>44.49</del> <u>69.81</u> %) / PSEG (38.89%) / RE (1.68%)                  |
| b2835.2                            | Convert the R-1318 and Q-1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Meadow Road - Pierson Ave)      | AEC ( <del>30.24</del> <u>13.15</u> %) / PECO ( <del>69.79</del> <u>39.12</u> %) / PSEG (45.75%) / RE (1.98%)                  |
| b2835.3                            | Convert the R-1318 and Q-1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Pierson Ave - Metuchen)         | AEC ( <del>30.24</del> <u>11.57</u> %) / PECO ( <del>69.79</del> <u>34.41</u> %) / PSEG (51.78%) / RE (2.24%)                  |
| 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)   | AEC ( <del>40</del> <u>08.23</u> %) / NEPTUNE* (43.36%) / PECO (30.19%) / PSEG (17.46%) / RE (0.76%)                           |
| b2836.2                            | Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)     | AEC ( <del>49.19</del> <u>2.14</u> %) / NEPTUNE* ( <del>50.8</del> <u>11.80</u> %) / PECO (7.72%) / PSEG (75.09%) / RE (3.25%) |
| b2836.3                            | Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) | AEC (6.98%) / NEPTUNE* (64.26%) / PECO (25.38%) / PSEG ( <del>3.24</del> <u>100</u> %) / RE (0.14%)                            |
| b2836.4                            | Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils Brook - Trenton)   | AEC (5.13%) / NEPTUNE* (28.43%) / PECO (18.69%) / PSEG ( <del>100</del> <u>45.77</u> %) / RE (1.98%)                           |

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2837                              | Convert the F-1358/Z-1326 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* ( <del>400</del> <u>10.75%</u> ) / <u>PSEG (85.55%) / RE (3.70%)</u>                                 |
| 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* ( <del>8.89</del> <u>8.84%</u> ) / <u>PSEG (87.70)87.38%</u> ) / RE ( <del>3.41</del> <u>3.78%</u> ) |
| b2837.3                            | Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)         | NEPTUNE* ( <del>8.27</del> <u>8.24%</u> ) / <u>PSEG (88.30)87.95%</u> ) / RE ( <del>3.43</del> <u>3.81%</u> ) |
| 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* ( <del>6.79</del> <u>6.96%</u> ) / <u>PSEG (89.73)89.18%</u> ) / RE ( <del>3.48</del> <u>3.86%</u> ) |
| 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* ( <del>5.62</del> <u>5.95%</u> ) / <u>PSEG (90.85)90.15%</u> ) / RE ( <del>3.53</del> <u>3.90%</u> ) |
| 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* ( <del>400</del> <u>12.83%</u> ) / <u>PSEG (83.55%) / RE (3.62%)</u>                                 |

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue 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* ( <del>1009.98%</del> ) / PSEG (86.29%) / RE (3.73%)                                     |
| 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* ( <del>1009.98%</del> ) / PSEG (86.29%) / RE (3.73%)                                     |
| 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* ( <del>8.228.01%</del> ) / PSEG ( <del>88.3588.18%</del> ) / RE ( <del>3.433.81%</del> ) |
| 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* ( <del>6.717.16%</del> ) / PSEG ( <del>89.8088.99%</del> ) / RE ( <del>3.493.85%</del> ) |
| 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* ( <del>5.205.54%</del> ) / PSEG ( <del>91.2690.54%</del> ) / RE ( <del>3.543.92%</del> ) |
| b2870                              | 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 | PSEG (100%)   |
| b2933                              | Third Source for Springfield Rd. and Stanley Terrace Stations  | PSEG (95.85%) / RE (4.15%) See sub-IDs for cost allocations                                       |

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2933.1                            | Construct a 230/69 kV station at Springfield  | PSEG ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |
| b2933.2                            | Construct a 230/69 kV station at Stanley Terrace  | PSEG ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |
| b2933.31                           | Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)    | <del>PSEG (95.85%) / RE (4.15%)</del> NEPTUNE* ( <del>100</del> %) |
| b2933.32                           | Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace) | PSEG ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |
| b2934                              | Build a new 69 kV line between Hasbrouck Heights and Carlstadt  | PSEG ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |
| b2935                              | Third Supply for Runnemedede 69 kV and Woodbury 69 kV   | PSEG ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |
| 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 ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |
| b2935.2                            | Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply                                    | PSEG ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |

\* ~~Neptune Regional Transmission System, LLC~~

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2935.3                            | Convert Runnemedede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemedede 69 kV     | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2955                              | Wreck and rebuild the VFT – Warinanco – Aldene 230 kV circuit with paired conductor                               | <u>PSEG (95.85%) / RE (4.15%)</u> / <u>JCPL (91.73%) / NEPTUNE* (8.27%)</u> |
| b2956                              | Replace existing cable on Cedar Grove - Jackson Rd. with 5000 kcmil XLPE cable                                    | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2982                              | Construct a 230/69 kV station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV                      | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2982.1                            | Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale   | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2982.2                            | Construct a 69 kV network between Paramus, Dumont, and Hillsdale Substation using existing 69 kV circuits         | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2983                              | Convert Kuller Road to a 69/13 kV station   | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2983.1                            | Install 69 kV ring bus and two (2) 69/13 kV transformers at Kuller Road   | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2983.2                            | Construct a 69 kV network between Kuller Road, Passaic, Paterson, and Harvey (new Clifton area switching station) | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2986                              | Replace the existing Roseland – Branchburg – Pleasant Valley 230 kV corridor with new structures                  | See sub-IDs for cost allocations  |

~~\* Neptune Regional Transmission System, LLC~~

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2986.11                           | Roseland-Branchburg 230 kV corridor rebuild (Roseland - Readington)                            | PSEG ( <del>10095.85%</del> ) / RE (4.15%)   |
| b2986.12                           | Roseland-Branchburg 230 kV corridor rebuild (Readington - Branchburg)                          | JCPL ( <del>10058.66%</del> ) / PSEG (39.62%) / RE (1.72%)   |
| b2986.21                           | Branchburg-Pleasant Valley 230 kV corridor rebuild (Branchburg - East Flemington)              | NEPTUNE* (0.37%) / PECO ( <del>10098.94%</del> ) / PSEG (0.66%) / RE (0.03%)   |
| b2986.22                           | Branchburg-Pleasant Valley 230 kV corridor rebuild (East Flemington - Pleasant Valley)         | NEPTUNE* ( <del>0.775.83%</del> ) / PECO ( <del>99.2383.73%</del> ) / PSEG (10.01%) / RE (0.43%)   |
| b2986.23                           | Branchburg-Pleasant Valley 230 kV corridor rebuild (Pleasant Valley - Rocktown)                | JCPL ( <del>31.3926.89%</del> ) / NEPTUNE* ( <del>5.264.81%</del> ) / PECO ( <del>6.688.88%</del> ) / PSEG ( <del>54.4356.96%</del> ) / RE (2.232.46%) |
| b2986.24                           | Branchburg-Pleasant Valley 230 kV corridor rebuild (the PSEG portion of Rocktown - Buckingham) | JCPL ( <del>37.9533.60%</del> ) / NEPTUNE* ( <del>4.704.40%</del> ) / PECO ( <del>5.386.02%</del> ) / PSEG ( <del>49.9253.66%</del> ) / RE (2.052.32%) |
| b3003                              | Construct a 230/69 kV station at Maywood   | PSEG ( <del>10095.85%</del> ) / RE (4.15%)   |
| b3003.1                            | Purchase properties at Maywood to accommodate new construction                                 | PSEG ( <del>10095.85%</del> ) / RE (4.15%)   |
| b3003.2                            | Extend Maywood 230 kV bus and install one (1) 230 kV breaker                                   | PSEG ( <del>10095.85%</del> ) / RE (4.15%)   |
| b3003.3                            | Install one (1) 230/69 kV transformer at Maywood   | PSEG ( <del>10095.85%</del> ) / RE (4.15%)   |

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |   |
|---------|---|--|---|
| b3003.4 | Install Maywood 69 kV ring bus  |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br><u>(4.15%)</u> |
| b3003.5 | Construct a 69 kV network between Spring Valley Road, Hasbrouck Heights, and Maywood                          |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br><u>(4.15%)</u> |
| b3004   | Construct a 230/69/13 kV station by tapping the Mercer – Kuser Rd 230 kV circuit                              |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br><u>(4.15%)</u> |
| b3004.1 | Install a new Clinton 230 kV ring bus with one (1) 230/69 kV transformer Mercer - Kuser Rd 230 kV circuit     |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br><u>(4.15%)</u> |
| b3004.2 | Expand existing 69 kV ring bus at Clinton Ave with two (2) additional 69 kV breakers                          |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br><u>(4.15%)</u> |
| b3004.3 | Install two (2) 69/13 kV transformers at Clinton Ave  |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br><u>(4.15%)</u> |
| b3004.4 | Install 18 MVAR capacitor bank at Clinton Ave 69 kV   |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br><u>(4.15%)</u> |
| b3025   | Construct two (2) new 69/13 kV stations in the Doremus area and relocate the Doremus load to the new stations |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br><u>(4.15%)</u> |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)                    |
|------------------------------------|--|--|
| b3025.1                            | Install a new 69/13 kV station (Vauxhall) with a ring bus configuration  | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b3025.2                            | Install a new 69/13 kV station (19th Ave) with a ring bus configuration  | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b3025.3                            | Construct a 69 kV network between Stanley Terrace, Springfield Road, McCarter, Federal Square, and the two new stations (Vauxhall & 19th Ave)  | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b3703                              | Construct a third 69 kV supply line from Penns Neck substation to West Windsor substation  | PSEG (100%)                                |
| b3704                              | Replace the Lawrence switching station 230/69 kV Transformer No. 220-4 and its associated circuit switchers with a new larger capacity transformer with load tap changer (LTC) and new dead tank circuit breaker. Install a new 230 kV gas insulated breaker, associated disconnects, overhead bus and other necessary equipment to complete the bay within the Lawrence 230 kV switchyard | PSEG (100%)                                |
| b3705                              | Replace existing 230/138 kV Athenia Transformer No. 220-1  | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b3706                              | Replace Fair Lawn 230/138 kV transformer No. 220-1 with an existing O&M system spare at Burlington   | PSEG (100%)                                |
| b3716                              | Construct a third 69 kV supply line from Totowa substation to the customer's substation  | PSEG (100%)                                |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3719                              | Replace the two existing 1200A Bergen 138 kV circuit switchers with two 138 kV disconnect switches to achieve a minimum summer normal device rating of 298 MVA and a minimum summer emergency rating of 454 MVA | PSEG (100%)             |
| b3757                              | Convert existing Medford 69 kV straight bus to seven-breaker ring bus, construct a new 230/69 kV transformer at Cox's Corner station and a new 69 kV line from Cox's Corner station to Medford station          | PSEG (100%)             |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 12 – Public Service Electric & Gas Co.

Version 32.0.0  
Effective April 9, 2024  
(Accepted in Docket No. ER24-843-000)

**SCHEDULE 12 – APPENDIX A**

**(12) Public Service Electric and Gas Company**

| Required Transmission 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%)             |

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)                    |
|------------------------------------|--|--|
| b2276                              | Eliminate the Sewaren 138 kV bus by installing a new 230 kV bay at Sewaren 230 kV  | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b2276.1                            | Convert the two 138 kV circuits from Sewaren – Metuchen to 230 kV circuits including Lafayette and Woodbridge substation               | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b2276.2                            | Reconfigure the Metuchen 230 kV station to accommodate the two converted circuits  | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b2290                              | Replace disconnect switches at Kilmer, Lake Nilson and Greenbrook 230 kV substations on the Raritan River - Middlesex (I-1023) circuit | PSEG (100%)                                |
| b2291                              | Replace circuit switcher at Lake Nelson 230 kV substation on the Raritan River - Middlesex (W-1037) circuit                            | PSEG (100%)                                |
| b2295                              | Replace the Salem 500 kV breaker 10X with 63 kA breaker  | PSEG (100%)                                |
| b2421                              | Install all 69 kV lines to interconnect Plainfield, Greenbrook, and Bridgewater stations and establish the 69 kV network               | PSEG (100%)                                |
| b2421.1                            | Install two 18 MVAR capacitors at Plainfield and S. Second St substation   | PSEG (100%)                                |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2421.2                            | Install a second four (4) breaker 69 kV 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 | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b><br/> PSEG (<del>10095.85</del>%) / RE (4.15%)</p> |
| b2436.21                           | Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades    | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) /</p>  |

|  |  |  |  |
|--|--|--|--|
|  |  |  | PSEG ( <del>6.40</del> <u>5.99</u> %) / RE<br>( <del>0.27</del> <u>0.24</u> %)                   |
|  |  |  | <b>DFAX Allocation:</b><br>PSEG ( <del>100</del> <u>95.85</u> %) / <u>RE</u><br>( <u>4.15</u> %) |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required 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 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPSCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (<del>10095.85</del>%) / RE (4.15%)</p> |
| b2436.33                           | Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades           | PSEG ( <del>96.2695.85</del> %) / RE ( <del>3.744.15</del> %)   |
| b2436.34                           | Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades        | PSEG ( <del>95.8596.26</del> %) / RE ( <del>3.744.15</del> %)   |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2436.50                           | Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades   | PSEG ( <del>10095.85%</del> ) / RE (4.15%)  |
| 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 ( <del>95.8596.26%</del> ) / RE (3.744.15%)  |
| b2436.70                           | Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades  | PSEG ( <del>10095.85%</del> ) / RE (4.15%)  |
| 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    | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (<del>1.671.65%</del>) / AEP (<del>13.9414.29%</del>) / APS (<del>5.645.82%</del>) / ATSI (<del>8.027.49%</del>) / BGE (<del>4.124.01%</del>) / ComEd (<del>13.4614.06%</del>) / Dayton (<del>2.122.03%</del>) / DEOK (<del>3.373.21%</del>) / DL (<del>1.761.59%</del>) / DPL (2.55%) / Dominion (<del>12.9713.89%</del>) / EKPC (<del>1.812.35%</del>) / JCPL (<del>3.923.59%</del>) / ME (<del>1.951.81%</del>) / NEPTUNE* (<del>0.240.42%</del>) / OVEC (<del>0.070.06%</del>) / PECO (<del>5.395.11%</del>) / PENELEC (<del>1.841.73%</del>) / PEPSCO (<del>3.713.68%</del>) / PPL (<del>4.784.43%</del>) / PSEG (<del>6.405.99%</del>) / RE (<del>0.270.24%</del>)</p> <p><b>DFAX Allocation:</b><br/> PSEG (<del>96.2695.85%</del>) / RE (3.744.15%)</p> |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2436.83                           | Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b><br/>                     PSEG (<del>96.2695.85</del>%) / RE (<del>3.744.15</del>%)</p> |
| b2436.84                           | Convert the Bayway – Linden “W” 138 kV circuit to 345 kV and any associated substation upgrades | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b></p>  |

|  |  |  |  |
|--|--|--|--|
|  |  |  | PSEG ( <del>96.26</del> <u>95.85</u> %) / RE<br>( <del>3.744</del> <u>.15</u> %) |
|--|--|--|--|

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2436.85                           | Convert the Bayway – Linden “M” 138 kV circuit to 345 kV and any associated substation upgrades                | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (<del>1.671.65%</del>) / AEP (<del>13.9414.29%</del>) / APS (<del>5.645.82%</del>) / ATSI (<del>8.027.49%</del>) / BGE (<del>4.124.01%</del>) / ComEd (<del>13.4614.06%</del>) / Dayton (<del>2.122.03%</del>) / DEOK (<del>3.373.21%</del>) / DL (<del>1.761.59%</del>) / DPL (2.55%) / Dominion (<del>12.9713.89%</del>) / EKPC (<del>1.812.35%</del>) / JCPL (<del>3.923.59%</del>) / ME (<del>1.951.81%</del>) / NEPTUNE* (<del>0.240.42%</del>) / OVEC (<del>0.070.06%</del>) / PECO (<del>5.395.11%</del>) / PENELEC (<del>1.841.73%</del>) / PEPCO (<del>3.713.68%</del>) / PPL (<del>4.784.43%</del>) / PSEG (<del>6.405.99%</del>) / RE (<del>0.270.24%</del>)</p> <p><b>DFAX Allocation:</b><br/> PSEG (<del>96.2695.85%</del>) / RE (<del>3.744.15%</del>)</p> |
| b2436.90                           | Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (<del>1.671.65%</del>) / AEP (<del>13.9414.29%</del>) / APS (<del>5.645.82%</del>) / ATSI (<del>8.027.49%</del>) / BGE (<del>4.124.01%</del>) / ComEd (<del>13.4614.06%</del>) / Dayton (<del>2.122.03%</del>) / DEOK (<del>3.373.21%</del>) / DL (<del>1.761.59%</del>) / DPL (2.55%) / Dominion (<del>12.9713.89%</del>) / EKPC (<del>1.812.35%</del>) / JCPL (<del>3.923.59%</del>) / ME (<del>1.951.81%</del>) / NEPTUNE* (<del>0.240.42%</del>) / OVEC (<del>0.070.06%</del>) / PECO (<del>5.395.11%</del>) / PENELEC (<del>1.841.73%</del>) / PEPCO (<del>3.713.68%</del>) / PPL (<del>4.784.43%</del>) / PSEG (<del>6.405.99%</del>) / RE (<del>0.270.24%</del>)</p> <p><b>DFAX Allocation:</b><br/> PSEG (100%)</p>   |

|          |  |  |             |
|----------|--|--|-------------|
| 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

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2437.10                           | New Bergen 345/230 kV transformer and any associated substation upgrades    | PSEG ( <del>100</del> 95.85%) / RE (4.15%)                     |
| b2437.11                           | New Bergen 345/138 kV transformer #1 and any associated substation upgrades | PSEG ( <del>100</del> 95.85%) / RE (4.15%)                     |
| b2437.20                           | New Bayway 345/138 kV transformer #1 and any associated substation upgrades | PSEG ( <del>100</del> 95.85%) / RE (4.15%)                     |
| b2437.21                           | New Bayway 345/138 kV transformer #2 and any associated substation upgrades | PSEG ( <del>100</del> 95.85%) / RE (4.15%)                     |
| b2437.30                           | New Linden 345/230 kV transformer and any associated substation upgrades    | PSEG ( <del>96.26</del> 95.85%) / RE ( <del>3.744</del> 1.15%) |
| b2437.33                           | New Bayonne 345/69 kV transformer and any associated substation upgrades    | PSEG ( <del>100</del> 95.85%) / RE (4.15%)                     |
| b2438                              | Install two reactors at Tosco 230 kV  | PSEG (100%)  |
| b2439                              | Replace the Tosco 138 kV breaker 'CB1/2 (CBT)' with 63 kA                   | PSEG (100%)  |
| b2474                              | Rebuild Athenia 138 kV to 80 kA   | 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%)  |

**Public Service Electric and Gas Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|                |  |  |   |
|----------------|--|--|---|
| <p>b2633.3</p> | <p>Install an SVC at New Freedom 500 kV substation</p>                         |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b><br/> AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p> |
| <p>b2633.4</p> | <p>Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)</p> |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p>   |

|  |  |  |   |
|--|--|--|---|
|  |  |  | <p><b>DFAX Allocation:</b><br/> AEC (8.01%) / BGE (1.94%) /<br/> DPL (12.99%) / JCPL (13.85%)<br/> / ME (5.88%) / NEPTUNE*<br/> (3.45%) / PECO (17.62%) / PPL<br/> (14.85%) / PSEG (20.79%) / RE<br/> (0.62%)</p> |
|--|--|--|---|

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required 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 (8.01%) / BGE (1.94%) / DPL (12.99%) / JCPL (13.85%) / ME (5.88%) / NEPTUNE* (3.45%) / PECO (17.62%) / PPL (14.85%) / PSEG (20.79%) / RE (0.62%)  |
| 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 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b><br/>                     AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p> |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required 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  | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (<del>1.671.65</del>%) / AEP (<del>13.9414.29</del>%) / APS (<del>5.645.82</del>%) / ATSI (<del>8.027.49</del>%) / BGE (<del>4.124.01</del>%) / ComEd (<del>13.4614.06</del>%) / Dayton (<del>2.122.03</del>%) / DEOK (<del>3.373.21</del>%) / DL (<del>1.761.59</del>%) / DPL (2.55%) / Dominion (<del>12.9713.89</del>%) / EKPC (<del>1.812.35</del>%) / JCPL (<del>3.923.59</del>%) / ME (<del>1.951.81</del>%) / NEPTUNE* (<del>0.240.42</del>%) / OVEC (<del>0.070.06</del>%) / PECO (<del>5.395.11</del>%) / PENELEC (<del>1.841.73</del>%) / PEPSCO (<del>3.713.68</del>%) / PPL (<del>4.784.43</del>%) / PSEG (<del>6.405.99</del>%) / RE (<del>0.270.24</del>%)</p> <p><b>DFAX Allocation:</b><br/>           PSEG (100%)</p> |
| 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 Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)                                   |
|------------------------------------|--|---|
| b2712                              | Replace the Bergen 138 kV '40P' breaker with 80 kA breaker                             | PSEG (100%)   |
| b2713                              | Replace the Bergen 138 kV '90P' breaker with 80 kA 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 ( <del>100</del> <u>95.85</u> %) / <u>RE</u> (4.15%) |
| b2810.1                            | Install second 230/69 kV transformer at Cedar Grove                                    | PSEG ( <del>100</del> <u>95.85</u> %) / <u>RE</u> (4.15%) |
| b2810.2                            | Build a new 69 kV circuit from Cedar Grove to Great Notch                              | PSEG ( <del>100</del> <u>95.85</u> %) / <u>RE</u> (4.15%) |
| b2811                              | Build 69 kV circuit from Locust Street to Delair                                       | PSEG ( <del>100</del> <u>95.85</u> %) / <u>RE</u> (4.15%) |
| b2812                              | Construct River Road to Tonnelle Avenue 69kV Circuit                                   | PSEG ( <del>100</del> <u>95.85</u> %) / <u>RE</u> (4.15%) |
| 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                          |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2835.1                            | Convert the R-1318 and Q-1317 (Edison – Metuchen) 138 kV circuits to one 230 kV circuit (Brunswick – Meadow Road)        | AEC ( <del>30.19</del> <u>14.94</u> %) / PECO ( <del>44.49</del> <u>69.81</u> %) / PSEG (38.89%) / RE (1.68%)                  |
| b2835.2                            | Convert the R-1318 and Q-1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Meadow Road - Pierson Ave)      | AEC ( <del>30.24</del> <u>13.15</u> %) / PECO ( <del>69.79</del> <u>39.12</u> %) / PSEG (45.75%) / RE (1.98%)                  |
| b2835.3                            | Convert the R-1318 and Q-1317 (Edison - Metuchen) 138 kV circuits to one 230 kV circuit (Pierson Ave - Metuchen)         | AEC ( <del>30.24</del> <u>11.57</u> %) / PECO ( <del>69.79</del> <u>34.41</u> %) / PSEG (51.78%) / RE (2.24%)                  |
| 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)   | AEC ( <del>40</del> <u>08.23</u> %) / NEPTUNE* (43.36%) / PECO (30.19%) / PSEG (17.46%) / RE (0.76%)                           |
| b2836.2                            | Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Hunterglen - Trenton)     | AEC ( <del>49.19</del> <u>2.14</u> %) / NEPTUNE* ( <del>50.8</del> <u>11.80</u> %) / PECO (7.72%) / PSEG (75.09%) / RE (3.25%) |
| b2836.3                            | Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook) | AEC (6.98%) / NEPTUNE* (64.26%) / PECO (25.38%) / PSEG ( <del>3.24</del> <u>100</u> %) / RE (0.14%)                            |
| b2836.4                            | Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Devils Brook - Trenton)   | AEC (5.13%) / NEPTUNE* (28.43%) / PECO (18.69%) / PSEG ( <del>100</del> <u>45.77</u> %) / RE (1.98%)                           |

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2837                              | Convert the F-1358/Z-1326 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* ( <del>400</del> <u>10.75%</u> ) / PSEG ( <u>85.55%</u> ) / RE ( <u>3.70%</u> )                                  |
| 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* ( <del>8.89</del> <u>8.84%</u> ) / PSEG ( <del>87.70</del> <u>87.38%</u> ) / RE ( <del>3.41</del> <u>3.78%</u> ) |
| b2837.3                            | Convert the N-1340 and T-1372/D-1330 (Brunswick - Trenton) 138 kV circuits to 230 kV circuits (Brunswick - Devils Brook)         | NEPTUNE* ( <del>8.27</del> <u>8.24%</u> ) / PSEG ( <del>88.30</del> <u>87.95%</u> ) / RE ( <del>3.43</del> <u>3.81%</u> ) |
| 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* ( <del>6.79</del> <u>6.96%</u> ) / PSEG ( <del>89.73</del> <u>89.18%</u> ) / RE ( <del>3.48</del> <u>3.86%</u> ) |
| 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* ( <del>5.62</del> <u>5.95%</u> ) / PSEG ( <del>90.85</del> <u>90.15%</u> ) / RE ( <del>3.53</del> <u>3.90%</u> ) |
| 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* ( <del>400</del> <u>12.83%</u> ) / PSEG ( <u>83.55%</u> ) / RE ( <u>3.62%</u> )                                  |

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue 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* ( <del>1009.98%</del> ) / PSEG (86.29%) / RE (3.73%)                                     |
| 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* ( <del>1009.98%</del> ) / PSEG (86.29%) / RE (3.73%)                                     |
| 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* ( <del>8.228.01%</del> ) / PSEG ( <del>88.3588.18%</del> ) / RE ( <del>3.433.81%</del> ) |
| 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* ( <del>6.717.16%</del> ) / PSEG ( <del>89.8088.99%</del> ) / RE ( <del>3.493.85%</del> ) |
| 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* ( <del>5.205.54%</del> ) / PSEG ( <del>91.2690.54%</del> ) / RE ( <del>3.543.92%</del> ) |
| b2870                              | 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 | PSEG (100%)   |
| b2933                              | Third Source for Springfield Rd. and Stanley Terrace Stations  | PSEG (95.85%) / RE (4.15%) See sub-IDs for cost allocations                                       |

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2933.1                            | Construct a 230/69 kV station at Springfield  | PSEG ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |
| b2933.2                            | Construct a 230/69 kV station at Stanley Terrace  | PSEG ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |
| b2933.31                           | Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Front Street - Springfield)    | <del>PSEG (95.85%) / RE (4.15%)</del> NEPTUNE* ( <del>100</del> %) |
| b2933.32                           | Construct a 69 kV network between Front Street, Springfield and Stanley Terrace (Springfield – Stanley Terrace) | PSEG ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |
| b2934                              | Build a new 69 kV line between Hasbrouck Heights and Carlstadt  | PSEG ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |
| b2935                              | Third Supply for Runnemedede 69 kV and Woodbury 69 kV   | PSEG ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |
| 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 ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |
| b2935.2                            | Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply                                    | PSEG ( <del>100</del> <u>95.85</u> %) / RE (4.15%)                 |

\* ~~Neptune Regional Transmission System, LLC~~

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2935.3                            | Convert Runnemedede's straight bus to a ring bus and construct a 69 kV line from Hilltop to Runnemedede 69 kV     | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2955                              | Wreck and rebuild the VFT – Warinanco – Aldene 230 kV circuit with paired conductor                               | <u>PSEG (95.85%) / RE (4.15%)</u> / <u>JCPL (91.73%) / NEPTUNE* (8.27%)</u> |
| b2956                              | Replace existing cable on Cedar Grove - Jackson Rd. with 5000 kcmil XLPE cable                                    | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2982                              | Construct a 230/69 kV station at Hillsdale Substation and tie to Paramus and Dumont at 69 kV                      | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2982.1                            | Install a 69 kV ring bus and one (1) 230/69 kV transformer at Hillsdale   | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2982.2                            | Construct a 69 kV network between Paramus, Dumont, and Hillsdale Substation using existing 69 kV circuits         | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2983                              | Convert Kuller Road to a 69/13 kV station   | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2983.1                            | Install 69 kV ring bus and two (2) 69/13 kV transformers at Kuller Road   | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2983.2                            | Construct a 69 kV network between Kuller Road, Passaic, Paterson, and Harvey (new Clifton area switching station) | PSEG ( <del>100</del> <u>95.85%</u> ) / <u>RE</u> (4.15%)                   |
| b2986                              | Replace the existing Roseland – Branchburg – Pleasant Valley 230 kV corridor with new structures                  | See sub-IDs for cost allocations  |

~~\*Neptune Regional Transmission System, LLC~~

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2986.11                           | Roseland-Branchburg 230 kV corridor rebuild (Roseland - Readington)                            | PSEG ( <del>10095.85%</del> ) / RE (4.15%)   |
| b2986.12                           | Roseland-Branchburg 230 kV corridor rebuild (Readington - Branchburg)                          | JCPL ( <del>10058.66%</del> ) / PSEG (39.62%) / RE (1.72%)   |
| b2986.21                           | Branchburg-Pleasant Valley 230 kV corridor rebuild (Branchburg - East Flemington)              | NEPTUNE* (0.37%) / PECO ( <del>10098.94%</del> ) / PSEG (0.66%) / RE (0.03%)   |
| b2986.22                           | Branchburg-Pleasant Valley 230 kV corridor rebuild (East Flemington - Pleasant Valley)         | NEPTUNE* ( <del>0.775.83%</del> ) / PECO ( <del>99.2383.73%</del> ) / PSEG (10.01%) / RE (0.43%)   |
| b2986.23                           | Branchburg-Pleasant Valley 230 kV corridor rebuild (Pleasant Valley - Rocktown)                | JCPL ( <del>31.3926.89%</del> ) / NEPTUNE* ( <del>5.264.81%</del> ) / PECO ( <del>6.688.88%</del> ) / PSEG ( <del>54.4356.96%</del> ) / RE (2.232.46%) |
| b2986.24                           | Branchburg-Pleasant Valley 230 kV corridor rebuild (the PSEG portion of Rocktown - Buckingham) | JCPL ( <del>37.9533.60%</del> ) / NEPTUNE* ( <del>4.704.40%</del> ) / PECO ( <del>5.386.02%</del> ) / PSEG ( <del>49.9253.66%</del> ) / RE (2.052.32%) |
| b3003                              | Construct a 230/69 kV station at Maywood   | PSEG ( <del>10095.85%</del> ) / RE (4.15%)   |
| b3003.1                            | Purchase properties at Maywood to accommodate new construction                                 | PSEG ( <del>10095.85%</del> ) / RE (4.15%)   |
| b3003.2                            | Extend Maywood 230 kV bus and install one (1) 230 kV breaker                                   | PSEG ( <del>10095.85%</del> ) / RE (4.15%)   |
| b3003.3                            | Install one (1) 230/69 kV transformer at Maywood   | PSEG ( <del>10095.85%</del> ) / RE (4.15%)   |

\* Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |  |
|---------|---|--|--|
| b3003.4 | Install Maywood 69 kV ring bus  |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br>(4.15%) |
| b3003.5 | Construct a 69 kV network between Spring Valley Road, Hasbrouck Heights, and Maywood                          |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br>(4.15%) |
| b3004   | Construct a 230/69/13 kV station by tapping the Mercer – Kuser Rd 230 kV circuit                              |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br>(4.15%) |
| b3004.1 | Install a new Clinton 230 kV ring bus with one (1) 230/69 kV transformer Mercer - Kuser Rd 230 kV circuit     |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br>(4.15%) |
| b3004.2 | Expand existing 69 kV ring bus at Clinton Ave with two (2) additional 69 kV breakers                          |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br>(4.15%) |
| b3004.3 | Install two (2) 69/13 kV transformers at Clinton Ave  |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br>(4.15%) |
| b3004.4 | Install 18 MVAR capacitor bank at Clinton Ave 69 kV   |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br>(4.15%) |
| b3025   | Construct two (2) new 69/13 kV stations in the Doremus area and relocate the Doremus load to the new stations |  | PSEG ( <del>10095.85%</del> ) / <u>RE</u><br>(4.15%) |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)                    |
|------------------------------------|--|--|
| b3025.1                            | Install a new 69/13 kV station (Vauxhall) with a ring bus configuration  | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b3025.2                            | Install a new 69/13 kV station (19th Ave) with a ring bus configuration  | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b3025.3                            | Construct a 69 kV network between Stanley Terrace, Springfield Road, McCarter, Federal Square, and the two new stations (Vauxhall & 19th Ave)  | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b3703                              | Construct a third 69 kV supply line from Penns Neck substation to West Windsor substation  | PSEG (100%)                                |
| b3704                              | Replace the Lawrence switching station 230/69 kV Transformer No. 220-4 and its associated circuit switchers with a new larger capacity transformer with load tap changer (LTC) and new dead tank circuit breaker. Install a new 230 kV gas insulated breaker, associated disconnects, overhead bus and other necessary equipment to complete the bay within the Lawrence 230 kV switchyard | PSEG (100%)                                |
| b3705                              | Replace existing 230/138 kV Athenia Transformer No. 220-1  | PSEG ( <del>100</del> 95.85%) / RE (4.15%) |
| b3706                              | Replace Fair Lawn 230/138 kV transformer No. 220-1 with an existing O&M system spare at Burlington   | PSEG (100%)                                |
| b3716                              | Construct a third 69 kV supply line from Totowa substation to the customer's substation  | PSEG (100%)                                |

**Public Service Electric and Gas Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3719                              | Replace the two existing 1200A Bergen 138 kV circuit switchers with two 138 kV disconnect switches to achieve a minimum summer normal device rating of 298 MVA and a minimum summer emergency rating of 454 MVA | PSEG (100%)  |
| b3757                              | Convert existing Medford 69 kV straight bus to seven-breaker ring bus, construct a new 230/69 kV transformer at Cox's Corner station and a new 69 kV line from Cox's Corner station to Medford station          | PSEG (100%)  |
| b3800.7                            | <u>Construct 38 miles of 500 kV overhead AC line between the Conastone vicinity and the Doubs substations (BGE zone portion)</u>  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (13.16%) / BGE (0.79%) / Dominion (74.28%) / DPL (0.41%) / PECO (0.77%) / PEPCO (10.59%)</u></p> |

\*Neptune Regional Transmission System, LLC

**Public Service Electric and Gas Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                        |  |  |  |
|------------------------|--|--|--|
| <p><u>b3800.43</u></p> | <p><u>Construct 31.5 miles of 500 kV overhead AC line between the Conastone vicinity and the Doubs substations (APS Section)</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (13.16%) / BGE (0.79%) / Dominion (74.28%) / DPL (0.41%) / PECO (0.77%) / PEPCO (10.59%)</u></p> |
|------------------------|--|--|--|

\*Neptune Regional Transmission System, LLC

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 14 – Monongahela Power Co.

Version 29.0.0  
Effective January 1, 2024  
(Accepted in Docket No. ER24-284-000)

**SCHEDULE 12 – APPENDIX A**

**(14) Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power**

| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s) |
|--|----------------------------|-------------------------|
| b2117<br>Reconductor 0.33 miles of the Parkersburg - Belpre line and upgrade Parkersburg terminal equipment  |                            | APS (100%)              |
| b2118<br>Add 44 MVAR Cap at New Martinsville   |                            | APS (100%)              |
| b2142<br>Replace Weirton 138 kV breaker “Wylie Ridge 210” with 63 kA breaker   |                            | APS (100%)              |
| b2143<br>Replace Weirton 138 kV breaker “Wylie Ridge 216” with 63 kA breaker   |                            | APS (100%)              |
| b2214<br>Albright Substation: Install a new control building in the switchyard and relocate controls and SCADA equipment from the generating station building the new control center |                            | APS (100%)              |
| b2215<br>Rivesville Switching Station: Relocate controls and SCADA equipment from the generating station building to new control building  |                            | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2216                              | Willow Island: Install a new 138 kV cross bus at Belmont Substation and reconnect and reconfigure the 138 kV lines to facilitate removal of the equipment at Willow Island switching station | APS (100%)              |
| b2235                              | 130 MVAR reactor at Monocacy 230 kV  | APS (100%)              |
| b2260                              | Install a 32.4 MVAR capacitor at Bartonville   | APS (100%)              |
| b2261                              | Install a 33 MVAR capacitor at Damascus  | APS (100%)              |
| b2267                              | Replace 1000 Cu substation conductor and 1200 amp wave trap at Marlowe   | APS (100%)              |
| b2268                              | Reconductor 6.8 miles of 138kV 336 ACSR with 336 ACSS from Double Toll Gate to Riverton  | APS (100%)              |
| b2299                              | Reconductor from Collins Ferry - West Run 138 kV with 556 ACSS   | APS (100%)              |
| b2300                              | Reconductor from Lake Lynn - West Run 138 kV   | APS (100%)              |
| b2342                              | Construct a new 138 kV switching station (Shuman Hill substation), which is next the Mobley 138 kV substation and install a 31.7 MVAR capacitor  | APS (100%)              |
| b2343                              | Install a 31.7 MVAR capacitor at West Union 138 kV substation  | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2433.1                            | Install breaker and a half 138 kV substation (Waldo Run) with 4 breakers to accommodate service to MarkWest Sherwood Facility including metering which is cut into Glen Falls Lamberton 138 kV line | APS (100%)              |
| b2433.2                            | Install a 70 MVAR SVC at the new WaldoRun 138 kV substation   | APS (100%)              |
| b2433.3                            | Install two 31.7 MVAR capacitors at the new WaldoRun 138 kV substation  | APS (100%)              |
| b2424                              | Replace the Weirton 138 kV breaker 'WYLIE RID210' with 63 kA breakers   | APS (100%)              |
| b2425                              | Replace the Weirton 138 kV breaker 'WYLIE RID216' with 63 kA breakers   | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2426                              | Replace the Oak Grove 138 kV breaker 'OG1' with 63 kA breakers   | APS (100%)              |
| b2427                              | Replace the Oak Grove 138 kV breaker 'OG2' with 63 kA breakers   | APS (100%)              |
| b2428                              | Replace the Oak Grove 138 kV breaker 'OG3' with 63 kA breakers   | APS (100%)              |
| b2429                              | Replace the Oak Grove 138 kV breaker 'OG4' with 63 kA breakers   | APS (100%)              |
| b2430                              | Replace the Oak Grove 138 kV breaker 'OG5' with 63 kA breakers   | APS (100%)              |
| b2431                              | Replace the Oak Grove 138 kV breaker 'OG6' with 63 kA breakers   | APS (100%)              |
| b2432                              | Replace the Ridgeley 138 kV breaker 'RC1' with a 40 kA rated breaker   | APS (100%)              |
| b2472                              | Replace the Ringgold 138 kV breaker 'RCM1' with 40kA breakers  | APS (100%)              |
| b2473                              | Replace the Ringgold 138 kV breaker '#4 XMFR' with 40kA breakers   | APS (100%)              |
| b2475                              | Construct a new line between Oak Mound 138 kV substation and Waldo Run 138 kV substation                             | APS (100%)              |
| b2545.1                            | Construct a new 138 kV substation (Shuman Hill substation) connected to the Fairview –Willow Island (84) 138 kV line | APS (100%)              |

**~~Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)~~**

~~Required Transmission Enhancements — Annual Revenue Requirement — Responsible Customer(s)~~

|                     |   |  |                       |
|---------------------|---|--|-----------------------|
| <del>b2666.1</del>  | <del>Replace Yukon 138 kV breaker "Y-11(CHARL1)" with an 80 kA breaker</del>  |  | <del>APS (100%)</del> |
| <del>b2666.2</del>  | <del>Replace Yukon 138 kV breaker "Y-13(BETHEL)" with an 80 kA breaker</del>  |  | <del>APS (100%)</del> |
| <del>b2666.3</del>  | <del>Replace Yukon 138 kV breaker "Y-18(CHARL2)" with an 80 kA breaker</del>  |  | <del>APS (100%)</del> |
| <del>b2666.4</del>  | <del>Replace Yukon 138 kV breaker "Y-19(CHARL2)" with an 80 kA breaker</del>  |  | <del>APS (100%)</del> |
| <del>b2666.5</del>  | <del>Replace Yukon 138 kV breaker "Y-4(4B-2BUS)" with an 80 kA breaker</del>  |  | <del>APS (100%)</del> |
| <del>b2666.6</del>  | <del>Replace Yukon 138 kV breaker "Y-5(LAYTON)" with an 80 kA breaker</del>   |  | <del>APS (100%)</del> |
| <del>b2666.7</del>  | <del>Replace Yukon 138 kV breaker "Y-8(HUNTING)" with an 80 kA breaker</del>  |  | <del>APS (100%)</del> |
| <del>b2666.8</del>  | <del>Replace Yukon 138 kV breaker "Y-9(SPRINGD)" with an 80 kA breaker</del>  |  | <del>APS (100%)</del> |
| <del>b2666.9</del>  | <del>Replace Yukon 138 kV breaker "Y-10(CHRL-SP)" with an 80 kA breaker</del> |  | <del>APS (100%)</del> |
| <del>b2666.10</del> | <del>Replace Yukon 138 kV breaker "Y-12(1-1BUS)" with an 80 kA breaker</del>  |  | <del>APS (100%)</del> |
| <del>b2666.11</del> | <del>Replace Yukon 138 kV breaker "Y-14(4-1BUS)" with an 80 kA breaker</del>  |  | <del>APS (100%)</del> |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2545.2                            | Install a ring bus station with five active positions and two 52.8 MVAR capacitors with 0.941 mH reactors  | APS (100%)  |
| b2545.3                            | Install a +90/-30 MVAR SVC protected by a 138 kV breaker   | APS (100%)  |
| b2545.4                            | Remove the 31.7 MVAR capacitor bank at Mobley 138 kV   | APS (100%)  |
| b2548                              | Eliminate clearance de-rate on Wylie Ridge – Smith 138 kV line and upgrade terminals at Smith 138 kV, new line ratings 294 MVA (Rate A)/350 MVA (Rate B) | APS (100%)  |
| b2672                              | Change CT Ratio at Seneca Caverns from 120/1 to 160/1 and adjust relay settings accordingly  | APS (100%)  |
| b2688.3                            | Carroll Substation: Replace the Germantown 138 kV wave trap, upgrade the bus conductor and adjust CT ratios  | 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%) / PEPSCO (15.85%) / RECO (0.12%) |
| b2700                              | Remove existing Black Oak SPS  | APS (100%)  |
| b2743.6                            | Reconfigure the Ringgold 230 kV substation to double bus double breaker scheme   | 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%) / PEPSCO (20.88%)                  |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2743.6.1                          | Replace the two Ringgold 230/138 kV transformers   | 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%) |
| b2743.7                            | Rebuild/Reconductor the Ringgold – Catocin 138 kV circuit and upgrade terminal equipment on both ends  | 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%) |
| b2747.1                            | Relocate the FirstEnergy Pratts 138 kV terminal CVTs at Gordonsville substation to allow for the installation of a new motor operated switch being installed by Dominion | APS (100%)  |
| b2764                              | Upgrade Fairview 138 kV breaker risers and disconnect leads; Replace 500 CU breaker risers and 556 ACSR disconnect leads with 795 ACSR                                   | APS (100%)  |
| b2964.1                            | Replace terminal equipment at Pruntytown and Glen Falls 138 kV station   | APS (100%)  |
| b2964.2                            | Reconductor approximately 8.3 miles of the McAlpin - White Hall Junction 138 kV circuit  | APS (100%)  |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b2970                              | Ringgold – Catoctin Solution   |  | APS (100%)              |
| b2970.1                            | Install two new 230 kV positions at Ringgold for 230/138 kV transformers   |  | APS (100%)              |
| b2970.2                            | Install new 230 kV position for Ringgold – Catoctin 230 kV line  |  | APS (100%)              |
| b2970.3                            | Install one new 230 kV breaker at Catoctin substation  |  | APS (100%)              |
| b2970.4                            | Install new 230/138 kV transformer at Catoctin substation. Convert Ringgold – Catoctin 138 kV line to 230 kV operation |  | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)          |
|------------------------------------|--|----------------------------------|
| b2970.5                            | Convert Garfield 138/12.5 kV substation to 230/12.5 kV   | APS (100%)                       |
| b2996                              | Construct new Flint Run 500/138 kV substation  | See sub-IDs for cost allocations |
| b2996.1                            | Construct a new 500/138 kV substation as a 4-breaker ring bus with expansion plans for double-breaker-double-bus on the 500 kV bus and breaker-and-a-half on the 138 kV bus to provide EHV source to the Marcellus shale load growth area. Projected load growth of additional 160 MVA to current plan of 280 MVA, for a total load of 440 MVA served from Waldo Run substation. Construct additional 3-breaker string at Waldo Run 138 kV bus. Relocate the Sherwood #2 line terminal to the new string. Construct two single circuit Flint Run - Waldo Run 138 kV lines using 795 ACSR (approximately 3 miles). After terminal relocation on new 3-breaker string at Waldo Run, terminate new Flint Run 138 kV lines onto the two open terminals | APS (100%)                       |
| b2996.2                            | Loop the Belmont – Harrison 500 kV line into and out of the new Flint Run 500 kV substation (less than 1 mile). Replace primary relaying and carrier sets on Belmont and Harrison 500 kV remote end substations  | APS (100%)                       |
| b2996.3                            | Upgrade two (2) existing 138 kV breakers (Rider 50 and #1/4 transformer breaker) at Glen Falls with 63 kA 3000A units  | APS (100%)                       |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3007.1                            | Reconductor the Blairsville East to Social Hall 138 kV line and upgrade terminal equipment – AP portion. 4.8 miles total. The new conductor will be 636 ACSS replacing the existing 636 ACSR conductor. At Social Hall, meters, relays, bus conductor, a wave trap, circuit breaker and disconnects will be replaced |                         |
| b3010                              | Replace terminal equipment at Keystone and Cabot 500 kV buses. At Keystone, bus tubing and conductor, a wave trap, and meter will be replaced. At Cabot, a wave trap and bus conductor will be replaced  |                         |
| b3011.1                            | Construct new Route 51 substation and connect 10 138 kV lines to new substation  |                         |
| b3011.2                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Charleroi #2 138 kV line (New Yukon to Route 51 #4 138 kV line)   |                         |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

**Required Transmission Enhancements—Annual Revenue Requirement—Responsible Customer(s)**

|         |   |  |                             |
|---------|---|--|-----------------------------|
| b3011.3 | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #1 138 kV line  |  | DL (100%)                   |
| b3011.4 | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #2 138 kV line  |  | DL (100%)                   |
| b3011.5 | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #3 138 kV line  |  | APS (22.82%) / DL (77.18%)  |
| b3011.6 | Upgrade remote end relays for Yukon—Allenport—Iron Bridge 138 kV line   |  | DL (100%)                   |
| b3012.1 | Construct two new 138 kV ties with the single structure from APS's new substation to Duquesne's new substation. The estimated line length is approximately 4.7 miles. The line is planned to use multiple ACSS conductors per phase |  | ATSI (38.21%) / DL (61.79%) |
| b3012.3 | Construct a new Elrama—Route 51 138 kV No.3 line: reconductor 4.7 miles of the existing line, and construct 1.5 miles of a new line to the reconducted portion. Install a new line terminal at APS Route 51 substation              |  | DL (100%)                   |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)     |
|------------------------------------|--|-----------------------------|
| b3028                              | Upgrade substation disconnect leads at William 138 kV substation           | APS (100%)                  |
| b3051.1                            | Ronceverte cap bank and terminal upgrades                                  | APS (100%)                  |
| b3052                              | Install a 138 kV capacitor (29.7 MVAR effective) at West Winchester 138 kV | APS (100%)                  |
| b3079                              | Replace the Wylie Ridge 500/345 kV transformer #7                          | ATSI (72.30%) / DL (27.70%) |

~~Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)~~

~~Required Transmission Enhancements—Annual Revenue Requirement—Responsible Customer(s)~~

|                  |  |  |  |
|------------------|--|--|--|
| <del>b3068</del> | <del>Reconductor the Yukon—Westraver 138 kV line (2.8 miles), replace the line drops and relays at Yukon 138 kV and replace switches at Westraver 138 kV bus</del> |  | <del>APS (100%)</del>                  |
| <del>b3069</del> | <del>Reconductor the Westraver—Route 51 138 kV line (5.63 miles) and replace line switches at Westraver 138 kV bus</del>   |  | <del>APS (100%)</del>                  |
| <del>b3070</del> | <del>Reconductor the Yukon—Route 51 #1 138 kV line (8 miles), replace the line drops, relays and line disconnect switch at Yukon 138 kV bus</del>                  |  | <del>APS (100%)</del>                  |
| <del>b3071</del> | <del>Reconductor the Yukon—Route 51 #2 138 kV line (8 miles) and replace relays at Yukon 138 kV bus</del>  |  | <del>APS (100%)</del>                  |
| <del>b3072</del> | <del>Reconductor the Yukon—Route 51 #3 138 kV line (8 miles) and replace relays at Yukon 138 kV bus</del>  |  | <del>APS (100%)</del>                  |
| <del>b3074</del> | <del>Reconductor the 138 kV bus at Armstrong substation</del>  |  | <del>APS (100%)</del>                  |
| <del>b3075</del> | <del>Replace the 500/138 kV transformer breaker and reconductor 138 kV bus at Cabot substation</del>   |  | <del>APS (100%)</del>                  |
| <del>b3076</del> | <del>Reconductor the Edgewater—Loyalhanna 138 kV line (0.67 mile)</del>  |  | <del>APS (100%)</del>                  |
| <del>b3079</del> | <del>Replace the Wylie Ridge 500/345 kV transformer #7</del>   |  | <del>ATSI (72.30%) / DL (27.70%)</del> |
| <del>b3083</del> | <del>Reconductor the 138 kV bus at Butler and reconductor the 138 kV bus and replace line trap at Karns City</del>   |  | <del>APS (100%)</del>                  |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3128                              | Relocate 34.5 kV lines from generating station roof R. Paul Smith 138 kV station  | APS (100%)              |
| b3240                              | Upgrade Cherry Run and Morgan terminals to make the transmission line the limiting component  | APS (100%)              |
| b3241                              | Install 138 kV, 36 MVAR capacitor and a 5 uF reactor protected by a 138 kV capacitor switcher. Install a breaker on the 138 kV Junction terminal. Install a 138 kV 3.5 uF reactor on the existing Hardy 138 kV capacitor  | APS (100%)              |
| b3242                              | Reconfigure Stonewall 138 kV substation from its current configuration to a six-breaker, breaker-and-a-half layout and add two (2) 36 MVAR capacitors with capacitor switchers  | APS (100%)              |
| b3683                              | Reconductor the existing 556.5 ACSR line segments on the Messick Road – Ridgeley 138 kV line with 954 45/7 ACSR to achieve 308/376 MVA SN/SE and 349/445 MVA WN/WE ratings. Replace the remote end equipment for the line. The total length of the line is 5.02 miles | APS (100%)              |
| b3701                              | Replace terminal equipment at French's Mill and Junction 138 kV substations   | APS (100%)              |

**Monongahela Power Company, ~~and~~ The Potomac Edison Company, ~~and West Penn Power Company, all~~ doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |  |  |            |
|-------|--|--|------------|
| b3743 | <p>At Bedington substation:<br/>                     Replace substation conductor, wave trap, Current Transformers (CT's) and upgrade relaying<br/>                     At Cherry Run substation:<br/>                     Replace substation conductor, wave trap, CT's, disconnect switches, circuit breaker and upgrade relaying<br/>                     At Marlowe substation: Replace substation conductor, wave trap, CT's and upgrade relaying</p> |  | APS (100%) |
| b3746 | <p>Install redundant relaying at Meadow Brook 500 kV substation</p>  |  | APS (100%) |
| b3747 | <p>Install redundant relaying at Bedington 500 kV substation</p>   |  | APS (100%) |
| b3772 | <p>Reconductor 27.3 miles of the Messick Road – Morgan 138 kV line from 556 ACSR to 954 ACSR. At Messick Road substation, replace 138 kV wave trap, circuit breaker, CT's, disconnect switch, and substation conductor and upgrade relaying. At Morgan substation, upgrade relaying</p>  |  | APS (100%) |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 14 – Monongahela Power Co.

Version 31.0.0  
Effective January 1, 2024  
(Accepted in Docket No. ER24-786-000)

**SCHEDULE 12 – APPENDIX A**

**(14) Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2117                              | Reconductor 0.33 miles of the Parkersburg - Belpre line and upgrade Parkersburg terminal equipment  | APS (100%)              |
| b2118                              | Add 44 MVAR Cap at New Martinsville   | APS (100%)              |
| b2120                              | Six-Wire Lake Lynn - Lardin 138 kV circuits   | APS (100%)              |
| b2142                              | Replace Weirton 138 kV breaker “Wylie Ridge 210” with 63 kA breaker   | APS (100%)              |
| b2143                              | Replace Weirton 138 kV breaker “Wylie Ridge 216” with 63 kA breaker   | APS (100%)              |
| b2174.8                            | Replace relays at Mitchell substation   | APS (100%)              |
| b2174.9                            | Replace primary relay at Piney Fork substation  | APS (100%)              |
| b2174.10                           | Perform relay setting changes at Bethel Park substation   | APS (100%)              |
| b2213                              | Armstrong Substation: Relocate 138 kV controls from the generating station building to new control building   | APS (100%)              |
| b2214                              | Albright Substation: Install a new control building in the switchyard and relocate controls and SCADA equipment from the generating station building the new control center | APS (100%)              |
| b2215                              | Rivesville Switching Station: Relocate controls and SCADA equipment from the generating station building to new control building  | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2216                              | Willow Island: Install a new 138 kV cross bus at Belmont Substation and reconnect and reconfigure the 138 kV lines to facilitate removal of the equipment at Willow Island switching station | APS (100%)              |
| b2235                              | 130 MVAR reactor at Monocacy 230 kV  | APS (100%)              |
| b2260                              | Install a 32.4 MVAR capacitor at Bartonville   | APS (100%)              |
| b2261                              | Install a 33 MVAR capacitor at Damascus  | APS (100%)              |
| b2267                              | Replace 1000 Cu substation conductor and 1200 amp wave trap at Marlowe   | APS (100%)              |
| b2268                              | Reconductor 6.8 miles of 138kV 336 ACSR with 336 ACSS from Double Toll Gate to Riverton  | APS (100%)              |
| b2299                              | Reconductor from Collins Ferry - West Run 138 kV with 556 ACSS   | APS (100%)              |
| b2300                              | Reconductor from Lake Lynn - West Run 138 kV   | APS (100%)              |
| b2341                              | Install 39.6 MVAR Capacitor at Shaffers Corner 138 kV Substation   | APS (100%)              |
| b2342                              | Construct a new 138 kV switching station (Shuman Hill substation), which is next the Mobley 138 kV substation and install a 31.7 MVAR capacitor  | APS (100%)              |
| b2343                              | Install a 31.7 MVAR capacitor at West Union 138 kV substation  | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2362                              | Install a 250 MVAR SVC at Squab Hollow 230 kV   | APS (100%)              |
| b2362.1                            | Install a 230 kV breaker at Squab Hollow 230 kV substation  | APS (100%)              |
| b2363                              | Convert the Shingletown 230 kV bus into a 6 breaker ring bus  | APS (100%)              |
| b2364                              | Install a new 230/138 kV transformer at Squab Hollow 230 kV substation. Loop the Forest - Elko 230 kV line into Squab Hollow. Loop the Brookville - Elko 138 kV line into Squab Hollow              | APS (100%)              |
| b2412                              | Install a 44 MVAR 138 kV capacitor at the Hempfield 138 kV substation   | APS (100%)              |
| b2433.1                            | Install breaker and a half 138 kV substation (Waldo Run) with 4 breakers to accommodate service to MarkWest Sherwood Facility including metering which is cut into Glen Falls Lamberton 138 kV line | APS (100%)              |
| b2433.2                            | Install a 70 MVAR SVC at the new WaldoRun 138 kV substation   | APS (100%)              |
| b2433.3                            | Install two 31.7 MVAR capacitors at the new WaldoRun 138 kV substation  | APS (100%)              |
| b2424                              | Replace the Weirton 138 kV breaker 'WYLIE RID210' with 63 kA breakers   | APS (100%)              |
| b2425                              | Replace the Weirton 138 kV breaker 'WYLIE RID216' with 63 kA breakers   | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2426                              | Replace the Oak Grove 138 kV breaker 'OG1' with 63 kA breakers   | APS (100%)              |
| b2427                              | Replace the Oak Grove 138 kV breaker 'OG2' with 63 kA breakers   | APS (100%)              |
| b2428                              | Replace the Oak Grove 138 kV breaker 'OG3' with 63 kA breakers   | APS (100%)              |
| b2429                              | Replace the Oak Grove 138 kV breaker 'OG4' with 63 kA breakers   | APS (100%)              |
| b2430                              | Replace the Oak Grove 138 kV breaker 'OG5' with 63 kA breakers   | APS (100%)              |
| b2431                              | Replace the Oak Grove 138 kV breaker 'OG6' with 63 kA breakers   | APS (100%)              |
| b2432                              | Replace the Ridgeley 138 kV breaker 'RC1' with a 40 kA rated breaker   | APS (100%)              |
| b2440                              | Replace the Cabot 138kV breaker 'C9-KISKI VLY' with 63kA   | APS (100%)              |
| b2472                              | Replace the Ringgold 138 kV breaker 'RCM1' with 40kA breakers  | APS (100%)              |
| b2473                              | Replace the Ringgold 138 kV breaker '#4 XMFR' with 40kA breakers   | APS (100%)              |
| b2475                              | Construct a new line between Oak Mound 138 kV substation and Waldo Run 138 kV substation                             | APS (100%)              |
| b2545.1                            | Construct a new 138 kV substation (Shuman Hill substation) connected to the Fairview –Willow Island (84) 138 kV line | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2545.2                            | Install a ring bus station with five active positions and two 52.8 MVAR capacitors with 0.941 mH reactors  | APS (100%)              |
| b2545.3                            | Install a +90/-30 MVAR SVC protected by a 138 kV breaker   | APS (100%)              |
| b2545.4                            | Remove the 31.7 MVAR capacitor bank at Mobley 138 kV   | APS (100%)              |
| b2546                              | Install a 51.8 MVAR (rated) 138 kV capacitor at Nyswaner 138 kV substation   | APS (100%)              |
| b2547.1                            | Construct a new 138 kV six breaker ring bus Hillman substation   | APS (100%)              |
| b2547.2                            | Loop Smith- Imperial 138 kV line into the new Hillman substation   | APS (100%)              |
| b2547.3                            | Install +125/-75 MVAR SVC at Hillman substation  | APS (100%)              |
| b2547.4                            | Install two 31.7 MVAR 138 kV capacitors  | APS (100%)              |
| b2548                              | Eliminate clearance de-rate on Wylie Ridge – Smith 138 kV line and upgrade terminals at Smith 138 kV, new line ratings 294 MVA (Rate A)/350 MVA (Rate B) | APS (100%)              |
| b2612.1                            | Relocate All Dam 6 138 kV line and the 138 kV line to AE units 1&2   | APS (100%)              |
| b2612.2                            | Install 138 kV, 3000A bus-tie breaker in the open bus-tie position next to the Shaffers corner 138 kV line   | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2612.3                            | Install a 6-pole manual switch, foundation, control cable, and all associated facilities | APS (100%)              |
| b2666                              | Yukon 138 kV Breaker Replacement   | APS (100%)              |
| b2666.1                            | Replace Yukon 138 kV breaker "Y-11(CHARL1)" with an 80 kA breaker                        | APS (100%)              |
| b2666.2                            | Replace Yukon 138 kV breaker "Y-13(BETHEL)" with an 80 kA breaker                        | APS (100%)              |
| b2666.3                            | Replace Yukon 138 kV breaker "Y-18(CHARL2)" with an 80 kA breaker                        | APS (100%)              |
| b2666.4                            | Replace Yukon 138 kV breaker "Y-19(CHARL2)" with an 80 kA breaker                        | APS (100%)              |
| b2666.5                            | Replace Yukon 138 kV breaker "Y-4(4B-2BUS)" with an 80 kA breaker                        | APS (100%)              |
| b2666.6                            | Replace Yukon 138 kV breaker "Y-5(LAYTON)" with an 80 kA breaker                         | APS (100%)              |
| b2666.7                            | Replace Yukon 138 kV breaker "Y-8(HUNTING)" with an 80 kA breaker                        | APS (100%)              |
| b2666.8                            | Replace Yukon 138 kV breaker "Y-9(SPRINGD)" with an 80 kA breaker                        | APS (100%)              |
| b2666.9                            | Replace Yukon 138 kV breaker "Y-10(CHRL-SP)" with an 80 kA breaker                       | APS (100%)              |
| b2666.10                           | Replace Yukon 138 kV breaker "Y-12(1-1BUS)" with an 80 kA breaker                        | APS (100%)              |
| b2666.11                           | Replace Yukon 138 kV breaker "Y-14(4-1BUS)" with an 80 kA breaker                        | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2666.12                           | Replace Yukon 138 kV breaker "Y-2(1B-BETHE)" with an 80 kA breaker   | APS (100%)   |
| b2666.13                           | Replace Yukon 138 kV breaker "Y-21(SHEPJ)" with an 80 kA breaker   | APS (100%)   |
| b2666.14                           | Replace Yukon 138 kV breaker "Y-22(SHEPHJT)" with an 80 kA breaker   | APS (100%)   |
| b2672                              | Change CT Ratio at Seneca Caverns from 120/1 to 160/1 and adjust relay settings accordingly  | APS (100%)   |
| b2688.3                            | Carroll Substation: Replace the Germantown 138 kV wave trap, upgrade the bus conductor and adjust CT ratios  | 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%) |
| b2689.3                            | Upgrade terminal equipment at structure 27A  | APS (100%)   |
| b2696                              | Upgrade 138 kV substation equipment at Butler, Shanor Manor and Krendale substations. New rating of line will be 353 MVA summer normal/422 MVA emergency | APS (100%)   |
| b2700                              | Remove existing Black Oak SPS  | APS (100%)   |
| b2743.6                            | Reconfigure the Ringgold 230 kV substation to double bus double breaker scheme   | 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%)                  |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2743.6.1                          | Replace the two Ringgold 230/138 kV transformers   | 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%) |
| b2743.7                            | Rebuild/Reconductor the Ringgold – Catocin 138 kV circuit and upgrade terminal equipment on both ends  | 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%) |
| b2747.1                            | Relocate the FirstEnergy Pratts 138 kV terminal CVTs at Gordonsville substation to allow for the installation of a new motor operated switch being installed by Dominion | APS (100%)  |
| b2763                              | Replace the breaker risers and wave trap at Bredinville 138 kV substation on the Cabrey Junction 138 kV terminal   | APS (100%)  |
| b2764                              | Upgrade Fairview 138 kV breaker risers and disconnect leads; Replace 500 CU breaker risers and 556 ACSR disconnect leads with 795 ACSR                                   | APS (100%)  |
| b2964.1                            | Replace terminal equipment at Pruntytown and Glen Falls 138 kV station   | APS (100%)  |
| b2964.2                            | Reconductor approximately 8.3 miles of the McAlpin - White Hall Junction 138 kV circuit  | APS (100%)  |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements  | Annual Revenue Requirement | Responsible Customer(s)  |
|---|----------------------------|--|
| b2965<br>Reconductor the Charleroi – Allenport 138 kV line with 954 ACSR conductor. Replace breaker risers at Charleroi and Allenport   |                            | APS ( <del>37.1548.46%</del> ) / DL ( <del>62.8551.54%</del> ) |
| b2966<br>Reconductor the Yukon – Smithton – Shepler Hill Jct 138 kV line with 795 ACSS conductor. Replace Line Disconnect Switch at Yukon   |                            | APS (100%)   |
| b2966.1<br>Reconductor the Yukon - Smithton - Shepler Hill Jct 138 kV line and replace terminal equipment as necessary to achieve required rating   |                            | APS (100%)   |
| b2967<br>Convert the existing 6 wire Butler - Shanor Manor - Krendale 138 kV line into two separate 138 kV lines. New lines will be Butler - Keisters and Butler - Shanor Manor - Krendale 138 kV |                            | APS (100%)   |
| b2970<br>Ringgold – Catoctin Solution   |                            | APS (100%)   |
| b2970.1<br>Install two new 230 kV positions at Ringgold for 230/138 kV transformers   |                            | APS (100%)   |
| b2970.2<br>Install new 230 kV position for Ringgold – Catoctin 230 kV line  |                            | APS (100%)   |
| b2970.3<br>Install one new 230 kV breaker at Catoctin substation  |                            | APS (100%)   |
| b2970.4<br>Install new 230/138 kV transformer at Catoctin substation. Convert Ringgold – Catoctin 138 kV line to 230 kV operation   |                            | APS (100%)   |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)          |
|------------------------------------|--|----------------------------------|
| b2970.5                            | Convert Garfield 138/12.5 kV substation to 230/12.5 kV   | APS (100%)                       |
| b2996                              | Construct new Flint Run 500/138 kV substation  | See sub-IDs for cost allocations |
| b2996.1                            | Construct a new 500/138 kV substation as a 4-breaker ring bus with expansion plans for double-breaker-double-bus on the 500 kV bus and breaker-and-a-half on the 138 kV bus to provide EHV source to the Marcellus shale load growth area. Projected load growth of additional 160 MVA to current plan of 280 MVA, for a total load of 440 MVA served from Waldo Run substation. Construct additional 3-breaker string at Waldo Run 138 kV bus. Relocate the Sherwood #2 line terminal to the new string. Construct two single circuit Flint Run - Waldo Run 138 kV lines using 795 ACSR (approximately 3 miles). After terminal relocation on new 3-breaker string at Waldo Run, terminate new Flint Run 138 kV lines onto the two open terminals | APS (100%)                       |
| b2996.2                            | Loop the Belmont – Harrison 500 kV line into and out of the new Flint Run 500 kV substation (less than 1 mile). Replace primary relaying and carrier sets on Belmont and Harrison 500 kV remote end substations  | APS (100%)                       |
| b2996.3                            | Upgrade two (2) existing 138 kV breakers (Rider 50 and #1/4 transformer breaker) at Glen Falls with 63 kA 3000A units  | APS (100%)                       |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements  | Annual Revenue Requirement | Responsible Customer(s)  |
|---|----------------------------|--|
| b3005<br>Reconductor 3.1 mile 556 ACSR portion of Cabot to Butler 138 kV with 556 ACSS and upgrade terminal equipment. 3.1 miles of line will be reconducted for this project. The total length of the line is 7.75 miles   |                            | APS (100%)   |
| b3006<br>Replace four Yukon 500/138 kV transformers with three transformers with higher rating and reconfigure 500 kV bus   |                            | APS ( <del>63.2156.81</del> %) / DL ( <del>36.7943.19</del> %) |
| b3007.1<br>Reconductor the Blairsville East to Social Hall 138 kV line and upgrade terminal equipment - AP portion. 4.8 miles total. The new conductor will be 636 ACSS replacing the existing 636 ACSR conductor. At Social Hall, meters, relays, bus conductor, a wave trap, circuit breaker and disconnects will be replaced |                            | APS (100%)   |
| b3010<br>Replace terminal equipment at Keystone and Cabot 500 kV buses. At Keystone, bus tubing and conductor, a wave trap, and meter will be replaced. At Cabot, a wave trap and bus conductor will be replaced  |                            | APS (100%)   |
| b3011.1<br>Construct new Route 51 substation and connect 10 138 kV lines to new substation  |                            | DL (100%)  |
| b3011.2<br>Upgrade terminal equipment at Yukon to increase rating on Yukon to Charleroi #2 138 kV line (New Yukon to Route 51 #4 138 kV line)   |                            | APS ( <del>22.829.17</del> %) / DL ( <del>77.1890.83</del> %)  |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)                                       |
|------------------------------------|---|---|
| b3011.3                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #1 138 kV line  | DL (100%)   |
| b3011.4                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #2 138 kV line  | DL (100%)   |
| b3011.5                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #3 138 kV line  | APS ( <del>22.829.17%</del> ) / DL ( <del>77.1890.83%</del> ) |
| b3011.6                            | Upgrade remote end relays for Yukon – Allenport – Iron Bridge 138 kV line   | DL (100%)   |
| b3012.1                            | Construct two new 138 kV ties with the single structure from APS’s new substation to Duquesne’s new substation. The estimated line length is approximately 4.7 miles. The line is planned to use multiple ACSS conductors per phase | ATSI (38.21%) / DL (61.79%)                                   |
| b3012.3                            | Construct a new Elrama – Route 51 138 kV No.3 line: reconductor 4.7 miles of the existing line, and construct 1.5 miles of a new line to the reconducted portion. Install a new line terminal at APS Route 51 substation            | DL (100%)   |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b3013   | Reconductor Vasco Tap to Edgewater Tap 138 kV line. 4.4 miles. The new conductor will be 336 ACSS replacing the existing 336 ACSR conductor |  | APS (100%) |
| b3015.6 | Reconductor Elrama to Mitchell 138 kV line – AP portion. 4.2 miles total. 2x 795 ACSS/TW 20/7   |  | DL (100%)  |
| b3015.8 | Upgrade terminal equipment at Mitchell for Mitchell – Elrama 138 kV line  |  | APS (100%) |
| b3028   | Upgrade substation disconnect leads at William 138 kV substation  |  | APS (100%) |
| b3051.1 | Ronceverte cap bank and terminal upgrades   |  | APS (100%) |
| b3052   | Install a 138 kV capacitor (29.7 MVAR effective) at West Winchester 138 kV  |  | APS (100%) |
| b3064.3 | Upgrade line relaying at Piney Fork and Bethel Park for Piney For – Elrama 138 kV line and Bethel Park – Elrama 138 kV                      |  | APS (100%) |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)     |
|------------------------------------|---|-----------------------------|
| b3068                              | Reconductor the Yukon – Westraver 138 kV line (2.8 miles), replace the line drops and relays at Yukon 138 kV and replace switches at Westraver 138 kV bus | APS (100%)                  |
| b3069                              | Reconductor the Westraver – Route 51 138 kV line (5.63 miles) and replace line switches at Westraver 138 kV bus   | APS (100%)                  |
| b3070                              | Reconductor the Yukon – Route 51 #1 138 kV line (8 miles), replace the line drops, relays and line disconnect switch at Yukon 138 kV bus                  | APS (100%)                  |
| b3071                              | Reconductor the Yukon – Route 51 #2 138 kV line (8 miles) and replace relays at Yukon 138 kV bus  | APS (100%)                  |
| b3072                              | Reconductor the Yukon – Route 51 #3 138 kV line (8 miles) and replace relays at Yukon 138 kV bus  | APS (100%)                  |
| b3074                              | Reconductor the 138 kV bus at Armstrong substation  | APS (100%)                  |
| b3075                              | Replace the 500/138 kV transformer breaker and reconductor 138 kV bus at Cabot substation   | APS (100%)                  |
| b3076                              | Reconductor the Edgewater – Loyalhanna 138 kV line (0.67 mile)  | APS (100%)                  |
| b3079                              | Replace the Wylie Ridge 500/345 kV transformer #7   | ATSI (72.30%) / DL (27.70%) |
| b3083                              | Reconductor the 138 kV bus at Butler and reconductor the 138 kV bus and replace line trap at Karns City   | APS (100%)                  |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |  |
|---------|--|--|--|
| b3128   | Relocate 34.5 kV lines from generating station roof R. Paul Smith 138 kV station   |  | APS (100%)   |
| b3214.1 | Reconductor the Yukon – Smithton – Shepler Hill Jct 138 kV Line. Upgrade terminal equipment at Yukon and replace line relaying at Mitchell and Charleroi   |  | APS ( <del>12.21</del> <u>75.27</u> %) / DL ( <del>87.79</del> <u>24.73</u> %) |
| b3214.2 | Reconductor the Smithton – Shepler Hill Jct 138 kV Line  |  | APS ( <del>4.74</del> <u>79.68</u> %) / DL ( <del>95.26</del> <u>20.32</u> %)  |
| b3230   | At Enon substation install a second 138 kV, 28.8 MVAR nameplate, capacitor and the associated 138 kV capacitor switcher  |  | APS (100%)   |
| b3240   | Upgrade Cherry Run and Morgan terminals to make the transmission line the limiting component   |  | APS (100%)   |
| b3241   | Install 138 kV, 36 MVAR capacitor and a 5 uF reactor protected by a 138 kV capacitor switcher. Install a breaker on the 138 kV Junction terminal. Install a 138 kV 3.5 uF reactor on the existing Hardy 138 kV capacitor |  | APS (100%)   |
| b3242   | Reconfigure Stonewall 138 kV substation from its current configuration to a six-breaker, breaker-and-a-half layout and add two (2) 36 MVAR capacitors with capacitor switchers   |  | APS (100%)   |
| b3318   | Reconductor the Shanor Manor - Butler 138 kV line with an upgraded circuit breaker at Butler 138 kV station  |  | APS (100%)   |
| b3325   | Reconductor the Charleroi - Union 138 kV line and upgrade terminal equipment at Charleroi 138 kV station   |  | APS (100%)   |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3681                              | Upgrade the Shingletown #82 230/46 kV Transformer circuit by installing a 230 kV breaker and disconnect switches, removing existing 230 kV switches, replacing 46 kV disconnect switches, replacing limiting substation conductor, and installing/replacing relays    | APS (100%)              |
| b3683                              | Reconductor the existing 556.5 ACSR line segments on the Messick Road – Ridgeley 138 kV line with 954 45/7 ACSR to achieve 308/376 MVA SN/SE and 349/445 MVA WN/WE ratings. Replace the remote end equipment for the line. The total length of the line is 5.02 miles | APS (100%)              |
| b3701                              | Replace terminal equipment at French's Mill and Junction 138 kV substations   | APS (100%)              |
| b3710                              | Reconductor AA2-161 to Yukon 138 kV Lines #1 and #2 with 954 ACSS conductor   | APS (100%)              |
| b3738                              | Replace limiting terminal equipment on Charleroi – Dry Run 138 kV line  | APS (100%)              |
| b3739                              | Replace limiting terminal equipment on Dry Run – Mitchell 138 kV line   | APS (100%)              |
| b3740                              | Replace limiting terminal equipment on Glen Falls – Bridgeport 138 kV line  | APS (100%)              |
| b3741                              | Replace limiting terminal equipment on Yukon - Charleroi #1 138 kV line   | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |  |  |            |
|-------|--|--|------------|
| b3742 | Replace limiting terminal equipment on Yukon - Charleroi #2 138 kV line  |  | APS (100%) |
| b3743 | At Bedington substation:<br>Replace substation conductor, wave trap, Current Transformers (CT's) and upgrade relaying<br>At Cherry Run substation:<br>Replace substation conductor, wave trap, CT's, disconnect switches, circuit breaker and upgrade relaying<br>At Marlowe substation: Replace substation conductor, wave trap, CT's and upgrade relaying  |  | APS (100%) |
| b3744 | Replace one span of 1272 ACSR from Krendale substation to structure 35 (approximately 630 feet)<br>Replace one span of 1272 ACSR from Shanor Manor to structure 21 (approximately 148 feet)<br>Replace 1272 ACSR risers at Krendale and Shanor Manor substations<br>Replace 1272 ACSR substation conductor at Krendale substation<br>Replace relaying at Krendale substation<br>Revise relay settings at Butler and Shanor Manor substations |  | APS (100%) |
| b3745 | Install redundant relaying at Carbon Center 230 kV substation  |  | APS (100%) |
| b3746 | Install redundant relaying at Meadow Brook 500 kV substation   |  | APS (100%) |
| b3747 | Install redundant relaying at Bedington 500 kV substation  |  | APS (100%) |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3761                              | Install 138 kV breaker on the Ridgway 138/46 kV #2 Transformer   | APS (100%)              |
| b3772                              | Reconductor 27.3 miles of the Messick Road – Morgan 138 kV line from 556 ACSR to 954 ACSR. At Messick Road substation, replace 138 kV wave trap, circuit breaker, CT's, disconnect switch, and substation conductor and upgrade relaying. At Morgan substation, upgrade relaying | APS (100%)              |
| b3773                              | Install 33 MVAR switched capacitor, 138 kV breaker, and associated relaying at McConnellsburg 138 kV substation  | APS (100%)              |
| b3717.3                            | Relay work at Springdale 138 kV station  | APS (100%)              |
| b3717.4                            | Transmission line work – a new transmission structure and necessary tower work to handle the change in tension at Cheswick 138 kV station  | APS (100%)              |
| b3781                              | Replace line drops to Doubs Transformer 3. New transformer rating: 721 MVA SN / 862 MVA SE   | APS (100%)              |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 14 – Monongahela Power Co.

Version 30.0.0  
Effective January 31, 2024  
(Accepted in Docket No. ER24-321-000)

**SCHEDULE 12 – APPENDIX A**

**(14) Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2117                              | Reconductor 0.33 miles of the Parkersburg - Belpre line and upgrade Parkersburg terminal equipment  | APS (100%)              |
| b2118                              | Add 44 MVAR Cap at New Martinsville   | APS (100%)              |
| b2120                              | Six-Wire Lake Lynn - Lardin 138 kV circuits   | APS (100%)              |
| b2142                              | Replace Weirton 138 kV breaker “Wylie Ridge 210” with 63 kA breaker   | APS (100%)              |
| b2143                              | Replace Weirton 138 kV breaker “Wylie Ridge 216” with 63 kA breaker   | APS (100%)              |
| b2174.8                            | Replace relays at Mitchell substation   | APS (100%)              |
| b2174.9                            | Replace primary relay at Piney Fork substation  | APS (100%)              |
| b2174.10                           | Perform relay setting changes at Bethel Park substation   | APS (100%)              |
| b2213                              | Armstrong Substation: Relocate 138 kV controls from the generating station building to new control building   | APS (100%)              |
| b2214                              | Albright Substation: Install a new control building in the switchyard and relocate controls and SCADA equipment from the generating station building the new control center | APS (100%)              |
| b2215                              | Rivesville Switching Station: Relocate controls and SCADA equipment from the generating station building to new control building  | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2216                              | Willow Island: Install a new 138 kV cross bus at Belmont Substation and reconnect and reconfigure the 138 kV lines to facilitate removal of the equipment at Willow Island switching station | APS (100%)              |
| b2235                              | 130 MVAR reactor at Monocacy 230 kV  | APS (100%)              |
| b2260                              | Install a 32.4 MVAR capacitor at Bartonville   | APS (100%)              |
| b2261                              | Install a 33 MVAR capacitor at Damascus  | APS (100%)              |
| b2267                              | Replace 1000 Cu substation conductor and 1200 amp wave trap at Marlowe   | APS (100%)              |
| b2268                              | Reconductor 6.8 miles of 138kV 336 ACSR with 336 ACSS from Double Toll Gate to Riverton  | APS (100%)              |
| b2299                              | Reconductor from Collins Ferry - West Run 138 kV with 556 ACSS   | APS (100%)              |
| b2300                              | Reconductor from Lake Lynn - West Run 138 kV   | APS (100%)              |
| b2341                              | Install 39.6 MVAR Capacitor at Shaffers Corner 138 kV Substation   | APS (100%)              |
| b2342                              | Construct a new 138 kV switching station (Shuman Hill substation), which is next the Mobley 138 kV substation and install a 31.7 MVAR capacitor  | APS (100%)              |
| b2343                              | Install a 31.7 MVAR capacitor at West Union 138 kV substation  | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2362                              | Install a 250 MVAR SVC at Squab Hollow 230 kV   | APS (100%)              |
| b2362.1                            | Install a 230 kV breaker at Squab Hollow 230 kV substation  | APS (100%)              |
| b2363                              | Convert the Shingletown 230 kV bus into a 6 breaker ring bus  | APS (100%)              |
| b2364                              | Install a new 230/138 kV transformer at Squab Hollow 230 kV substation. Loop the Forest - Elko 230 kV line into Squab Hollow. Loop the Brookville - Elko 138 kV line into Squab Hollow              | APS (100%)              |
| b2412                              | Install a 44 MVAR 138 kV capacitor at the Hempfield 138 kV substation   | APS (100%)              |
| b2433.1                            | Install breaker and a half 138 kV substation (Waldo Run) with 4 breakers to accommodate service to MarkWest Sherwood Facility including metering which is cut into Glen Falls Lamberton 138 kV line | APS (100%)              |
| b2433.2                            | Install a 70 MVAR SVC at the new WaldoRun 138 kV substation   | APS (100%)              |
| b2433.3                            | Install two 31.7 MVAR capacitors at the new WaldoRun 138 kV substation  | APS (100%)              |
| b2424                              | Replace the Weirton 138 kV breaker 'WYLIE RID210' with 63 kA breakers   | APS (100%)              |
| b2425                              | Replace the Weirton 138 kV breaker 'WYLIE RID216' with 63 kA breakers   | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2426                              | Replace the Oak Grove 138 kV breaker 'OG1' with 63 kA breakers   | APS (100%)              |
| b2427                              | Replace the Oak Grove 138 kV breaker 'OG2' with 63 kA breakers   | APS (100%)              |
| b2428                              | Replace the Oak Grove 138 kV breaker 'OG3' with 63 kA breakers   | APS (100%)              |
| b2429                              | Replace the Oak Grove 138 kV breaker 'OG4' with 63 kA breakers   | APS (100%)              |
| b2430                              | Replace the Oak Grove 138 kV breaker 'OG5' with 63 kA breakers   | APS (100%)              |
| b2431                              | Replace the Oak Grove 138 kV breaker 'OG6' with 63 kA breakers   | APS (100%)              |
| b2432                              | Replace the Ridgeley 138 kV breaker 'RC1' with a 40 kA rated breaker   | APS (100%)              |
| b2440                              | Replace the Cabot 138kV breaker 'C9-KISKI VLY' with 63kA   | APS (100%)              |
| b2472                              | Replace the Ringgold 138 kV breaker 'RCM1' with 40kA breakers  | APS (100%)              |
| b2473                              | Replace the Ringgold 138 kV breaker '#4 XMFR' with 40kA breakers   | APS (100%)              |
| b2475                              | Construct a new line between Oak Mound 138 kV substation and Waldo Run 138 kV substation                             | APS (100%)              |
| b2545.1                            | Construct a new 138 kV substation (Shuman Hill substation) connected to the Fairview –Willow Island (84) 138 kV line | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2545.2                            | Install a ring bus station with five active positions and two 52.8 MVAR capacitors with 0.941 mH reactors  | APS (100%)              |
| b2545.3                            | Install a +90/-30 MVAR SVC protected by a 138 kV breaker   | APS (100%)              |
| b2545.4                            | Remove the 31.7 MVAR capacitor bank at Mobley 138 kV   | APS (100%)              |
| b2546                              | Install a 51.8 MVAR (rated) 138 kV capacitor at Nyswaner 138 kV substation   | APS (100%)              |
| b2547.1                            | Construct a new 138 kV six breaker ring bus Hillman substation   | APS (100%)              |
| b2547.2                            | Loop Smith- Imperial 138 kV line into the new Hillman substation   | APS (100%)              |
| b2547.3                            | Install +125/-75 MVAR SVC at Hillman substation  | APS (100%)              |
| b2547.4                            | Install two 31.7 MVAR 138 kV capacitors  | APS (100%)              |
| b2548                              | Eliminate clearance de-rate on Wylie Ridge – Smith 138 kV line and upgrade terminals at Smith 138 kV, new line ratings 294 MVA (Rate A)/350 MVA (Rate B) | APS (100%)              |
| b2612.1                            | Relocate All Dam 6 138 kV line and the 138 kV line to AE units 1&2   | APS (100%)              |
| b2612.2                            | Install 138 kV, 3000A bus-tie breaker in the open bus-tie position next to the Shaffers corner 138 kV line   | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2612.3                            | Install a 6-pole manual switch, foundation, control cable, and all associated facilities | APS (100%)              |
| b2666                              | Yukon 138 kV Breaker Replacement   | APS (100%)              |
| b2666.1                            | Replace Yukon 138 kV breaker "Y-11(CHARL1)" with an 80 kA breaker                        | APS (100%)              |
| b2666.2                            | Replace Yukon 138 kV breaker "Y-13(BETHEL)" with an 80 kA breaker                        | APS (100%)              |
| b2666.3                            | Replace Yukon 138 kV breaker "Y-18(CHARL2)" with an 80 kA breaker                        | APS (100%)              |
| b2666.4                            | Replace Yukon 138 kV breaker "Y-19(CHARL2)" with an 80 kA breaker                        | APS (100%)              |
| b2666.5                            | Replace Yukon 138 kV breaker "Y-4(4B-2BUS)" with an 80 kA breaker                        | APS (100%)              |
| b2666.6                            | Replace Yukon 138 kV breaker "Y-5(LAYTON)" with an 80 kA breaker                         | APS (100%)              |
| b2666.7                            | Replace Yukon 138 kV breaker "Y-8(HUNTING)" with an 80 kA breaker                        | APS (100%)              |
| b2666.8                            | Replace Yukon 138 kV breaker "Y-9(SPRINGD)" with an 80 kA breaker                        | APS (100%)              |
| b2666.9                            | Replace Yukon 138 kV breaker "Y-10(CHRL-SP)" with an 80 kA breaker                       | APS (100%)              |
| b2666.10                           | Replace Yukon 138 kV breaker "Y-12(1-1BUS)" with an 80 kA breaker                        | APS (100%)              |
| b2666.11                           | Replace Yukon 138 kV breaker "Y-14(4-1BUS)" with an 80 kA breaker                        | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2666.12                           | Replace Yukon 138 kV breaker "Y-2(1B-BETHE)" with an 80 kA breaker   | APS (100%)   |
| b2666.13                           | Replace Yukon 138 kV breaker "Y-21(SHEPJ)" with an 80 kA breaker   | APS (100%)   |
| b2666.14                           | Replace Yukon 138 kV breaker "Y-22(SHEPHJT)" with an 80 kA breaker   | APS (100%)   |
| b2672                              | Change CT Ratio at Seneca Caverns from 120/1 to 160/1 and adjust relay settings accordingly  | APS (100%)   |
| b2688.3                            | Carroll Substation: Replace the Germantown 138 kV wave trap, upgrade the bus conductor and adjust CT ratios  | 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%) |
| b2689.3                            | Upgrade terminal equipment at structure 27A  | APS (100%)   |
| b2696                              | Upgrade 138 kV substation equipment at Butler, Shanor Manor and Krendale substations. New rating of line will be 353 MVA summer normal/422 MVA emergency | APS (100%)   |
| b2700                              | Remove existing Black Oak SPS  | APS (100%)   |
| b2743.6                            | Reconfigure the Ringgold 230 kV substation to double bus double breaker scheme   | 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%)                  |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2743.6.1                          | Replace the two Ringgold 230/138 kV transformers   | 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%) |
| b2743.7                            | Rebuild/Reconductor the Ringgold – Catoctin 138 kV circuit and upgrade terminal equipment on both ends   | 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%) |
| b2747.1                            | Relocate the FirstEnergy Pratts 138 kV terminal CVTs at Gordonsville substation to allow for the installation of a new motor operated switch being installed by Dominion | APS (100%)  |
| b2763                              | Replace the breaker risers and wave trap at Bredinville 138 kV substation on the Cabrey Junction 138 kV terminal   | APS (100%)  |
| b2764                              | Upgrade Fairview 138 kV breaker risers and disconnect leads; Replace 500 CU breaker risers and 556 ACSR disconnect leads with 795 ACSR                                   | APS (100%)  |
| b2964.1                            | Replace terminal equipment at Pruntytown and Glen Falls 138 kV station   | APS (100%)  |
| b2964.2                            | Reconductor approximately 8.3 miles of the McAlpin - White Hall Junction 138 kV circuit  | APS (100%)  |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)    |
|------------------------------------|--|----------------------------|
| b2965                              | Reconductor the Charleroi – Allenport 138 kV line with 954 ACSR conductor. Replace breaker risers at Charleroi and Allenport   | APS (37.15%) / DL (62.85%) |
| b2966                              | Reconductor the Yukon – Smithton – Shepler Hill Jct 138 kV line with 795 ACSS conductor. Replace Line Disconnect Switch at Yukon   | APS (100%)                 |
| b2966.1                            | Reconductor the Yukon - Smithton - Shepler Hill Jct 138 kV line and replace terminal equipment as necessary to achieve required rating   | APS (100%)                 |
| b2967                              | Convert the existing 6 wire Butler - Shanor Manor - Krendale 138 kV line into two separate 138 kV lines. New lines will be Butler - Keisters and Butler - Shanor Manor - Krendale 138 kV | APS (100%)                 |
| b2970                              | Ringgold – Catoctin Solution   | APS (100%)                 |
| b2970.1                            | Install two new 230 kV positions at Ringgold for 230/138 kV transformers   | APS (100%)                 |
| b2970.2                            | Install new 230 kV position for Ringgold – Catoctin 230 kV line  | APS (100%)                 |
| b2970.3                            | Install one new 230 kV breaker at Catoctin substation  | APS (100%)                 |
| b2970.4                            | Install new 230/138 kV transformer at Catoctin substation. Convert Ringgold – Catoctin 138 kV line to 230 kV operation   | APS (100%)                 |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)          |
|------------------------------------|--|----------------------------------|
| b2970.5                            | Convert Garfield 138/12.5 kV substation to 230/12.5 kV   | APS (100%)                       |
| b2996                              | Construct new Flint Run 500/138 kV substation  | See sub-IDs for cost allocations |
| b2996.1                            | Construct a new 500/138 kV substation as a 4-breaker ring bus with expansion plans for double-breaker-double-bus on the 500 kV bus and breaker-and-a-half on the 138 kV bus to provide EHV source to the Marcellus shale load growth area. Projected load growth of additional 160 MVA to current plan of 280 MVA, for a total load of 440 MVA served from Waldo Run substation. Construct additional 3-breaker string at Waldo Run 138 kV bus. Relocate the Sherwood #2 line terminal to the new string. Construct two single circuit Flint Run - Waldo Run 138 kV lines using 795 ACSR (approximately 3 miles). After terminal relocation on new 3-breaker string at Waldo Run, terminate new Flint Run 138 kV lines onto the two open terminals | APS (100%)                       |
| b2996.2                            | Loop the Belmont – Harrison 500 kV line into and out of the new Flint Run 500 kV substation (less than 1 mile). Replace primary relaying and carrier sets on Belmont and Harrison 500 kV remote end substations  | APS (100%)                       |
| b2996.3                            | Upgrade two (2) existing 138 kV breakers (Rider 50 and #1/4 transformer breaker) at Glen Falls with 63 kA 3000A units  | APS (100%)                       |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)    |
|------------------------------------|--|----------------------------|
| b3005                              | Reconductor 3.1 mile 556 ACSR portion of Cabot to Butler 138 kV with 556 ACSS and upgrade terminal equipment. 3.1 miles of line will be reconducted for this project. The total length of the line is 7.75 miles   | APS (100%)                 |
| b3006                              | Replace four Yukon 500/138 kV transformers with three transformers with higher rating and reconfigure 500 kV bus   | APS (63.21%) / DL (36.79%) |
| b3007.1                            | Reconductor the Blairsville East to Social Hall 138 kV line and upgrade terminal equipment - AP portion. 4.8 miles total. The new conductor will be 636 ACSS replacing the existing 636 ACSR conductor. At Social Hall, meters, relays, bus conductor, a wave trap, circuit breaker and disconnects will be replaced | APS (100%)                 |
| b3010                              | Replace terminal equipment at Keystone and Cabot 500 kV buses. At Keystone, bus tubing and conductor, a wave trap, and meter will be replaced. At Cabot, a wave trap and bus conductor will be replaced  | APS (100%)                 |
| b3011.1                            | Construct new Route 51 substation and connect 10 138 kV lines to new substation  | DL (100%)                  |
| b3011.2                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Charleroi #2 138 kV line (New Yukon to Route 51 #4 138 kV line)   | APS (22.82%) / DL (77.18%) |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)     |
|------------------------------------|---|-----------------------------|
| b3011.3                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #1 138 kV line  | DL (100%)                   |
| b3011.4                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #2 138 kV line  | DL (100%)                   |
| b3011.5                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #3 138 kV line  | APS (22.82%) / DL (77.18%)  |
| b3011.6                            | Upgrade remote end relays for Yukon – Allenport – Iron Bridge 138 kV line   | DL (100%)                   |
| b3012.1                            | Construct two new 138 kV ties with the single structure from APS’s new substation to Duquesne’s new substation. The estimated line length is approximately 4.7 miles. The line is planned to use multiple ACSS conductors per phase | ATSI (38.21%) / DL (61.79%) |
| b3012.3                            | Construct a new Elrama – Route 51 138 kV No.3 line: reconductor 4.7 miles of the existing line, and construct 1.5 miles of a new line to the reconducted portion. Install a new line terminal at APS Route 51 substation            | DL (100%)                   |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3013                              | Reconductor Vasco Tap to Edgewater Tap 138 kV line. 4.4 miles. The new conductor will be 336 ACSS replacing the existing 336 ACSR conductor | APS (100%)              |
| b3015.6                            | Reconductor Elrama to Mitchell 138 kV line – AP portion. 4.2 miles total. 2x 795 ACSS/TW 20/7   | DL (100%)               |
| b3015.8                            | Upgrade terminal equipment at Mitchell for Mitchell – Elrama 138 kV line  | APS (100%)              |
| b3028                              | Upgrade substation disconnect leads at William 138 kV substation  | APS (100%)              |
| b3051.1                            | Ronceverte cap bank and terminal upgrades   | APS (100%)              |
| b3052                              | Install a 138 kV capacitor (29.7 MVAR effective) at West Winchester 138 kV  | APS (100%)              |
| b3064.3                            | Upgrade line relaying at Piney Fork and Bethel Park for Piney For – Elrama 138 kV line and Bethel Park – Elrama 138 kV                      | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)     |
|------------------------------------|---|-----------------------------|
| b3068                              | Reconductor the Yukon – Westraver 138 kV line (2.8 miles), replace the line drops and relays at Yukon 138 kV and replace switches at Westraver 138 kV bus | APS (100%)                  |
| b3069                              | Reconductor the Westraver – Route 51 138 kV line (5.63 miles) and replace line switches at Westraver 138 kV bus   | APS (100%)                  |
| b3070                              | Reconductor the Yukon – Route 51 #1 138 kV line (8 miles), replace the line drops, relays and line disconnect switch at Yukon 138 kV bus                  | APS (100%)                  |
| b3071                              | Reconductor the Yukon – Route 51 #2 138 kV line (8 miles) and replace relays at Yukon 138 kV bus  | APS (100%)                  |
| b3072                              | Reconductor the Yukon – Route 51 #3 138 kV line (8 miles) and replace relays at Yukon 138 kV bus  | APS (100%)                  |
| b3074                              | Reconductor the 138 kV bus at Armstrong substation  | APS (100%)                  |
| b3075                              | Replace the 500/138 kV transformer breaker and reconductor 138 kV bus at Cabot substation   | APS (100%)                  |
| b3076                              | Reconductor the Edgewater – Loyalhanna 138 kV line (0.67 mile)  | APS (100%)                  |
| b3079                              | Replace the Wylie Ridge 500/345 kV transformer #7   | ATSI (72.30%) / DL (27.70%) |
| b3083                              | Reconductor the 138 kV bus at Butler and reconductor the 138 kV bus and replace line trap at Karns City   | APS (100%)                  |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)    |
|------------------------------------|--|----------------------------|
| b3128                              | Relocate 34.5 kV lines from generating station roof R. Paul Smith 138 kV station   | APS (100%)                 |
| b3214.1                            | Reconductor the Yukon – Smithton – Shepler Hill Jct 138 kV Line. Upgrade terminal equipment at Yukon and replace line relaying at Mitchell and Charleroi   | APS (12.21%) / DL (87.79%) |
| b3214.2                            | Reconductor the Smithton – Shepler Hill Jct 138 kV Line  | APS (4.74%) / DL (95.26%)  |
| b3230                              | At Enon substation install a second 138 kV, 28.8 MVAR nameplate, capacitor and the associated 138 kV capacitor switcher  | APS (100%)                 |
| b3240                              | Upgrade Cherry Run and Morgan terminals to make the transmission line the limiting component   | APS (100%)                 |
| b3241                              | Install 138 kV, 36 MVAR capacitor and a 5 uF reactor protected by a 138 kV capacitor switcher. Install a breaker on the 138 kV Junction terminal. Install a 138 kV 3.5 uF reactor on the existing Hardy 138 kV capacitor | APS (100%)                 |
| b3242                              | Reconfigure Stonewall 138 kV substation from its current configuration to a six-breaker, breaker-and-a-half layout and add two (2) 36 MVAR capacitors with capacitor switchers   | APS (100%)                 |
| b3318                              | Reconductor the Shanor Manor - Butler 138 kV line with an upgraded circuit breaker at Butler 138 kV station  | APS (100%)                 |
| b3325                              | Reconductor the Charleroi - Union 138 kV line and upgrade terminal equipment at Charleroi 138 kV station   | APS (100%)                 |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|                |   |  |                                  |
|----------------|---|--|----------------------------------|
| b3681          | Upgrade the Shingletown #82 230/46 kV Transformer circuit by installing a 230 kV breaker and disconnect switches, removing existing 230 kV switches, replacing 46 kV disconnect switches, replacing limiting substation conductor, and installing/replacing relays    |  | APS (100%)                       |
| b3683          | Reconductor the existing 556.5 ACSR line segments on the Messick Road – Ridgeley 138 kV line with 954 45/7 ACSR to achieve 308/376 MVA SN/SE and 349/445 MVA WN/WE ratings. Replace the remote end equipment for the line. The total length of the line is 5.02 miles |  | APS (100%)                       |
| b3701          | Replace terminal equipment at French's Mill and Junction 138 kV substations   |  | APS (100%)                       |
| b3710          | Reconductor AA2-161 to Yukon 138 kV Lines #1 and #2 with 954 ACSS conductor   |  | APS (100%)                       |
| <u>b3717.1</u> | <u>Install a series reactor on Cheswick - Springdale 138 kV line</u>  |  | <u>APS (1.93%) / DL (98.07%)</u> |
| b3738          | Replace limiting terminal equipment on Charleroi – Dry Run 138 kV line  |  | APS (100%)                       |
| b3739          | Replace limiting terminal equipment on Dry Run – Mitchell 138 kV line   |  | APS (100%)                       |
| b3740          | Replace limiting terminal equipment on Glen Falls – Bridgeport 138 kV line  |  | APS (100%)                       |
| b3741          | Replace limiting terminal equipment on Yukon - Charleroi #1 138 kV line   |  | APS (100%)                       |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |  |  |            |
|-------|--|--|------------|
| b3742 | Replace limiting terminal equipment on Yukon - Charleroi #2 138 kV line  |  | APS (100%) |
| b3743 | At Bedington substation:<br>Replace substation conductor, wave trap, Current Transformers (CT's) and upgrade relaying<br>At Cherry Run substation:<br>Replace substation conductor, wave trap, CT's, disconnect switches, circuit breaker and upgrade relaying<br>At Marlowe substation: Replace substation conductor, wave trap, CT's and upgrade relaying  |  | APS (100%) |
| b3744 | Replace one span of 1272 ACSR from Krendale substation to structure 35 (approximately 630 feet)<br>Replace one span of 1272 ACSR from Shanor Manor to structure 21 (approximately 148 feet)<br>Replace 1272 ACSR risers at Krendale and Shanor Manor substations<br>Replace 1272 ACSR substation conductor at Krendale substation<br>Replace relaying at Krendale substation<br>Revise relay settings at Butler and Shanor Manor substations |  | APS (100%) |
| b3745 | Install redundant relaying at Carbon Center 230 kV substation  |  | APS (100%) |
| b3746 | Install redundant relaying at Meadow Brook 500 kV substation   |  | APS (100%) |
| b3747 | Install redundant relaying at Bedington 500 kV substation  |  | APS (100%) |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|              |  |  |                   |
|--------------|--|--|-------------------|
| b3761        | Install 138 kV breaker on the Ridgway 138/46 kV #2 Transformer   |  | APS (100%)        |
| b3772        | Reconductor 27.3 miles of the Messick Road – Morgan 138 kV line from 556 ACSR to 954 ACSR. At Messick Road substation, replace 138 kV wave trap, circuit breaker, CT's, disconnect switch, and substation conductor and upgrade relaying. At Morgan substation, upgrade relaying |  | APS (100%)        |
| b3773        | Install 33 MVAR switched capacitor, 138 kV breaker, and associated relaying at McConnellsburg 138 kV substation  |  | APS (100%)        |
| <u>b3782</u> | <u>Adjust relay settings at Riverton substation on the Riverton-Bethel Tap 138 kV line</u>   |  | <u>APS (100%)</u> |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 14 – Monongahela Power Co.

Version 32.0.0  
Effective April 9, 2024  
(Accepted in Docket No. ER24-843-000)

**SCHEDULE 12 – APPENDIX A**

**(14) Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2117                              | Reconductor 0.33 miles of the Parkersburg - Belpre line and upgrade Parkersburg terminal equipment  | APS (100%)              |
| b2118                              | Add 44 MVAR Cap at New Martinsville   | APS (100%)              |
| b2120                              | Six-Wire Lake Lynn - Lardin 138 kV circuits   | APS (100%)              |
| b2142                              | Replace Weirton 138 kV breaker “Wylie Ridge 210” with 63 kA breaker   | APS (100%)              |
| b2143                              | Replace Weirton 138 kV breaker “Wylie Ridge 216” with 63 kA breaker   | APS (100%)              |
| b2174.8                            | Replace relays at Mitchell substation   | APS (100%)              |
| b2174.9                            | Replace primary relay at Piney Fork substation  | APS (100%)              |
| b2174.10                           | Perform relay setting changes at Bethel Park substation   | APS (100%)              |
| b2213                              | Armstrong Substation: Relocate 138 kV controls from the generating station building to new control building   | APS (100%)              |
| b2214                              | Albright Substation: Install a new control building in the switchyard and relocate controls and SCADA equipment from the generating station building the new control center | APS (100%)              |
| b2215                              | Rivesville Switching Station: Relocate controls and SCADA equipment from the generating station building to new control building  | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2216                              | Willow Island: Install a new 138 kV cross bus at Belmont Substation and reconnect and reconfigure the 138 kV lines to facilitate removal of the equipment at Willow Island switching station | APS (100%)              |
| b2235                              | 130 MVAR reactor at Monocacy 230 kV  | APS (100%)              |
| b2260                              | Install a 32.4 MVAR capacitor at Bartonville   | APS (100%)              |
| b2261                              | Install a 33 MVAR capacitor at Damascus  | APS (100%)              |
| b2267                              | Replace 1000 Cu substation conductor and 1200 amp wave trap at Marlowe   | APS (100%)              |
| b2268                              | Reconductor 6.8 miles of 138kV 336 ACSR with 336 ACSS from Double Toll Gate to Riverton  | APS (100%)              |
| b2299                              | Reconductor from Collins Ferry - West Run 138 kV with 556 ACSS   | APS (100%)              |
| b2300                              | Reconductor from Lake Lynn - West Run 138 kV   | APS (100%)              |
| b2341                              | Install 39.6 MVAR Capacitor at Shaffers Corner 138 kV Substation   | APS (100%)              |
| b2342                              | Construct a new 138 kV switching station (Shuman Hill substation), which is next the Mobley 138 kV substation and install a 31.7 MVAR capacitor  | APS (100%)              |
| b2343                              | Install a 31.7 MVAR capacitor at West Union 138 kV substation  | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2362                              | Install a 250 MVAR SVC at Squab Hollow 230 kV   | APS (100%)              |
| b2362.1                            | Install a 230 kV breaker at Squab Hollow 230 kV substation  | APS (100%)              |
| b2363                              | Convert the Shingletown 230 kV bus into a 6 breaker ring bus  | APS (100%)              |
| b2364                              | Install a new 230/138 kV transformer at Squab Hollow 230 kV substation. Loop the Forest - Elko 230 kV line into Squab Hollow. Loop the Brookville - Elko 138 kV line into Squab Hollow              | APS (100%)              |
| b2412                              | Install a 44 MVAR 138 kV capacitor at the Hempfield 138 kV substation   | APS (100%)              |
| b2433.1                            | Install breaker and a half 138 kV substation (Waldo Run) with 4 breakers to accommodate service to MarkWest Sherwood Facility including metering which is cut into Glen Falls Lamberton 138 kV line | APS (100%)              |
| b2433.2                            | Install a 70 MVAR SVC at the new WaldoRun 138 kV substation   | APS (100%)              |
| b2433.3                            | Install two 31.7 MVAR capacitors at the new WaldoRun 138 kV substation  | APS (100%)              |
| b2424                              | Replace the Weirton 138 kV breaker 'WYLIE RID210' with 63 kA breakers   | APS (100%)              |
| b2425                              | Replace the Weirton 138 kV breaker 'WYLIE RID216' with 63 kA breakers   | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2426                              | Replace the Oak Grove 138 kV breaker 'OG1' with 63 kA breakers   | APS (100%)              |
| b2427                              | Replace the Oak Grove 138 kV breaker 'OG2' with 63 kA breakers   | APS (100%)              |
| b2428                              | Replace the Oak Grove 138 kV breaker 'OG3' with 63 kA breakers   | APS (100%)              |
| b2429                              | Replace the Oak Grove 138 kV breaker 'OG4' with 63 kA breakers   | APS (100%)              |
| b2430                              | Replace the Oak Grove 138 kV breaker 'OG5' with 63 kA breakers   | APS (100%)              |
| b2431                              | Replace the Oak Grove 138 kV breaker 'OG6' with 63 kA breakers   | APS (100%)              |
| b2432                              | Replace the Ridgeley 138 kV breaker 'RC1' with a 40 kA rated breaker   | APS (100%)              |
| b2440                              | Replace the Cabot 138kV breaker 'C9-KISKI VLY' with 63kA   | APS (100%)              |
| b2472                              | Replace the Ringgold 138 kV breaker 'RCM1' with 40kA breakers  | APS (100%)              |
| b2473                              | Replace the Ringgold 138 kV breaker '#4 XMFR' with 40kA breakers   | APS (100%)              |
| b2475                              | Construct a new line between Oak Mound 138 kV substation and Waldo Run 138 kV substation                             | APS (100%)              |
| b2545.1                            | Construct a new 138 kV substation (Shuman Hill substation) connected to the Fairview –Willow Island (84) 138 kV line | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2545.2                            | Install a ring bus station with five active positions and two 52.8 MVAR capacitors with 0.941 mH reactors  | APS (100%)              |
| b2545.3                            | Install a +90/-30 MVAR SVC protected by a 138 kV breaker   | APS (100%)              |
| b2545.4                            | Remove the 31.7 MVAR capacitor bank at Mobley 138 kV   | APS (100%)              |
| b2546                              | Install a 51.8 MVAR (rated) 138 kV capacitor at Nyswaner 138 kV substation   | APS (100%)              |
| b2547.1                            | Construct a new 138 kV six breaker ring bus Hillman substation   | APS (100%)              |
| b2547.2                            | Loop Smith- Imperial 138 kV line into the new Hillman substation   | APS (100%)              |
| b2547.3                            | Install +125/-75 MVAR SVC at Hillman substation  | APS (100%)              |
| b2547.4                            | Install two 31.7 MVAR 138 kV capacitors  | APS (100%)              |
| b2548                              | Eliminate clearance de-rate on Wylie Ridge – Smith 138 kV line and upgrade terminals at Smith 138 kV, new line ratings 294 MVA (Rate A)/350 MVA (Rate B) | APS (100%)              |
| b2612.1                            | Relocate All Dam 6 138 kV line and the 138 kV line to AE units 1&2   | APS (100%)              |
| b2612.2                            | Install 138 kV, 3000A bus-tie breaker in the open bus-tie position next to the Shaffers corner 138 kV line   | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2612.3                            | Install a 6-pole manual switch, foundation, control cable, and all associated facilities | APS (100%)              |
| b2666                              | Yukon 138 kV Breaker Replacement   | APS (100%)              |
| b2666.1                            | Replace Yukon 138 kV breaker "Y-11(CHARL1)" with an 80 kA breaker                        | APS (100%)              |
| b2666.2                            | Replace Yukon 138 kV breaker "Y-13(BETHEL)" with an 80 kA breaker                        | APS (100%)              |
| b2666.3                            | Replace Yukon 138 kV breaker "Y-18(CHARL2)" with an 80 kA breaker                        | APS (100%)              |
| b2666.4                            | Replace Yukon 138 kV breaker "Y-19(CHARL2)" with an 80 kA breaker                        | APS (100%)              |
| b2666.5                            | Replace Yukon 138 kV breaker "Y-4(4B-2BUS)" with an 80 kA breaker                        | APS (100%)              |
| b2666.6                            | Replace Yukon 138 kV breaker "Y-5(LAYTON)" with an 80 kA breaker                         | APS (100%)              |
| b2666.7                            | Replace Yukon 138 kV breaker "Y-8(HUNTING)" with an 80 kA breaker                        | APS (100%)              |
| b2666.8                            | Replace Yukon 138 kV breaker "Y-9(SPRINGD)" with an 80 kA breaker                        | APS (100%)              |
| b2666.9                            | Replace Yukon 138 kV breaker "Y-10(CHRL-SP)" with an 80 kA breaker                       | APS (100%)              |
| b2666.10                           | Replace Yukon 138 kV breaker "Y-12(1-1BUS)" with an 80 kA breaker                        | APS (100%)              |
| b2666.11                           | Replace Yukon 138 kV breaker "Y-14(4-1BUS)" with an 80 kA breaker                        | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2666.12                           | Replace Yukon 138 kV breaker “Y-2(1B-BETHE)” with an 80 kA breaker   | APS (100%)   |
| b2666.13                           | Replace Yukon 138 kV breaker “Y-21(SHEPJ)” with an 80 kA breaker   | APS (100%)   |
| b2666.14                           | Replace Yukon 138 kV breaker “Y-22(SHEPHJT)” with an 80 kA breaker   | APS (100%)   |
| b2672                              | Change CT Ratio at Seneca Caverns from 120/1 to 160/1 and adjust relay settings accordingly  | APS (100%)   |
| b2688.3                            | Carroll Substation: Replace the Germantown 138 kV wave trap, upgrade the bus conductor and adjust CT ratios  | 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%) |
| b2689.3                            | Upgrade terminal equipment at structure 27A  | APS (100%)   |
| b2696                              | Upgrade 138 kV substation equipment at Butler, Shanor Manor and Krendale substations. New rating of line will be 353 MVA summer normal/422 MVA emergency | APS (100%)   |
| b2700                              | Remove existing Black Oak SPS  | APS (100%)   |
| b2743.6                            | Reconfigure the Ringgold 230 kV substation to double bus double breaker scheme   | 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%)                  |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2743.6.1                          | Replace the two Ringgold 230/138 kV transformers   | 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%) |
| b2743.7                            | Rebuild/Reconductor the Ringgold – Catocin 138 kV circuit and upgrade terminal equipment on both ends  | 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%) |
| b2747.1                            | Relocate the FirstEnergy Pratts 138 kV terminal CVTs at Gordonsville substation to allow for the installation of a new motor operated switch being installed by Dominion | APS (100%)  |
| b2763                              | Replace the breaker risers and wave trap at Bredinville 138 kV substation on the Cabrey Junction 138 kV terminal   | APS (100%)  |
| b2764                              | Upgrade Fairview 138 kV breaker risers and disconnect leads; Replace 500 CU breaker risers and 556 ACSR disconnect leads with 795 ACSR                                   | APS (100%)  |
| b2964.1                            | Replace terminal equipment at Pruntytown and Glen Falls 138 kV station   | APS (100%)  |
| b2964.2                            | Reconductor approximately 8.3 miles of the McAlpin - White Hall Junction 138 kV circuit  | APS (100%)  |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)    |
|------------------------------------|--|----------------------------|
| b2965                              | Reconductor the Charleroi – Allenport 138 kV line with 954 ACSR conductor. Replace breaker risers at Charleroi and Allenport   | APS (37.15%) / DL (62.85%) |
| b2966                              | Reconductor the Yukon – Smithton – Shepler Hill Jct 138 kV line with 795 ACSS conductor. Replace Line Disconnect Switch at Yukon   | APS (100%)                 |
| b2966.1                            | Reconductor the Yukon - Smithton - Shepler Hill Jct 138 kV line and replace terminal equipment as necessary to achieve required rating   | APS (100%)                 |
| b2967                              | Convert the existing 6 wire Butler - Shanor Manor - Krendale 138 kV line into two separate 138 kV lines. New lines will be Butler - Keisters and Butler - Shanor Manor - Krendale 138 kV | APS (100%)                 |
| b2970                              | Ringgold – Catoctin Solution   | APS (100%)                 |
| b2970.1                            | Install two new 230 kV positions at Ringgold for 230/138 kV transformers   | APS (100%)                 |
| b2970.2                            | Install new 230 kV position for Ringgold – Catoctin 230 kV line  | APS (100%)                 |
| b2970.3                            | Install one new 230 kV breaker at Catoctin substation  | APS (100%)                 |
| b2970.4                            | Install new 230/138 kV transformer at Catoctin substation. Convert Ringgold – Catoctin 138 kV line to 230 kV operation   | APS (100%)                 |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)          |
|------------------------------------|--|----------------------------------|
| b2970.5                            | Convert Garfield 138/12.5 kV substation to 230/12.5 kV   | APS (100%)                       |
| b2996                              | Construct new Flint Run 500/138 kV substation  | See sub-IDs for cost allocations |
| b2996.1                            | Construct a new 500/138 kV substation as a 4-breaker ring bus with expansion plans for double-breaker-double-bus on the 500 kV bus and breaker-and-a-half on the 138 kV bus to provide EHV source to the Marcellus shale load growth area. Projected load growth of additional 160 MVA to current plan of 280 MVA, for a total load of 440 MVA served from Waldo Run substation. Construct additional 3-breaker string at Waldo Run 138 kV bus. Relocate the Sherwood #2 line terminal to the new string. Construct two single circuit Flint Run - Waldo Run 138 kV lines using 795 ACSR (approximately 3 miles). After terminal relocation on new 3-breaker string at Waldo Run, terminate new Flint Run 138 kV lines onto the two open terminals | APS (100%)                       |
| b2996.2                            | Loop the Belmont – Harrison 500 kV line into and out of the new Flint Run 500 kV substation (less than 1 mile). Replace primary relaying and carrier sets on Belmont and Harrison 500 kV remote end substations  | APS (100%)                       |
| b2996.3                            | Upgrade two (2) existing 138 kV breakers (Rider 50 and #1/4 transformer breaker) at Glen Falls with 63 kA 3000A units  | APS (100%)                       |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)    |
|------------------------------------|--|----------------------------|
| b3005                              | Reconductor 3.1 mile 556 ACSR portion of Cabot to Butler 138 kV with 556 ACSS and upgrade terminal equipment. 3.1 miles of line will be reconducted for this project. The total length of the line is 7.75 miles   | APS (100%)                 |
| b3006                              | Replace four Yukon 500/138 kV transformers with three transformers with higher rating and reconfigure 500 kV bus   | APS (63.21%) / DL (36.79%) |
| b3007.1                            | Reconductor the Blairsville East to Social Hall 138 kV line and upgrade terminal equipment - AP portion. 4.8 miles total. The new conductor will be 636 ACSS replacing the existing 636 ACSR conductor. At Social Hall, meters, relays, bus conductor, a wave trap, circuit breaker and disconnects will be replaced | APS (100%)                 |
| b3010                              | Replace terminal equipment at Keystone and Cabot 500 kV buses. At Keystone, bus tubing and conductor, a wave trap, and meter will be replaced. At Cabot, a wave trap and bus conductor will be replaced  | APS (100%)                 |
| b3011.1                            | Construct new Route 51 substation and connect 10 138 kV lines to new substation  | DL (100%)                  |
| b3011.2                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Charleroi #2 138 kV line (New Yukon to Route 51 #4 138 kV line)   | APS (22.82%) / DL (77.18%) |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)     |
|------------------------------------|---|-----------------------------|
| b3011.3                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #1 138 kV line  | DL (100%)                   |
| b3011.4                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #2 138 kV line  | DL (100%)                   |
| b3011.5                            | Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #3 138 kV line  | APS (22.82%) / DL (77.18%)  |
| b3011.6                            | Upgrade remote end relays for Yukon – Allenport – Iron Bridge 138 kV line   | DL (100%)                   |
| b3012.1                            | Construct two new 138 kV ties with the single structure from APS’s new substation to Duquesne’s new substation. The estimated line length is approximately 4.7 miles. The line is planned to use multiple ACSS conductors per phase | ATSI (38.21%) / DL (61.79%) |
| b3012.3                            | Construct a new Elrama – Route 51 138 kV No.3 line: reconductor 4.7 miles of the existing line, and construct 1.5 miles of a new line to the reconducted portion. Install a new line terminal at APS Route 51 substation            | DL (100%)                   |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3013                              | Reconductor Vasco Tap to Edgewater Tap 138 kV line. 4.4 miles. The new conductor will be 336 ACSS replacing the existing 336 ACSR conductor | APS (100%)              |
| b3015.6                            | Reconductor Elrama to Mitchell 138 kV line – AP portion. 4.2 miles total. 2x 795 ACSS/TW 20/7   | DL (100%)               |
| b3015.8                            | Upgrade terminal equipment at Mitchell for Mitchell – Elrama 138 kV line  | APS (100%)              |
| b3028                              | Upgrade substation disconnect leads at William 138 kV substation  | APS (100%)              |
| b3051.1                            | Ronceverte cap bank and terminal upgrades   | APS (100%)              |
| b3052                              | Install a 138 kV capacitor (29.7 MVAR effective) at West Winchester 138 kV  | APS (100%)              |
| b3064.3                            | Upgrade line relaying at Piney Fork and Bethel Park for Piney For – Elrama 138 kV line and Bethel Park – Elrama 138 kV                      | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)     |
|------------------------------------|---|-----------------------------|
| b3068                              | Reconductor the Yukon – Westraver 138 kV line (2.8 miles), replace the line drops and relays at Yukon 138 kV and replace switches at Westraver 138 kV bus | APS (100%)                  |
| b3069                              | Reconductor the Westraver – Route 51 138 kV line (5.63 miles) and replace line switches at Westraver 138 kV bus   | APS (100%)                  |
| b3070                              | Reconductor the Yukon – Route 51 #1 138 kV line (8 miles), replace the line drops, relays and line disconnect switch at Yukon 138 kV bus                  | APS (100%)                  |
| b3071                              | Reconductor the Yukon – Route 51 #2 138 kV line (8 miles) and replace relays at Yukon 138 kV bus  | APS (100%)                  |
| b3072                              | Reconductor the Yukon – Route 51 #3 138 kV line (8 miles) and replace relays at Yukon 138 kV bus  | APS (100%)                  |
| b3074                              | Reconductor the 138 kV bus at Armstrong substation  | APS (100%)                  |
| b3075                              | Replace the 500/138 kV transformer breaker and reconductor 138 kV bus at Cabot substation   | APS (100%)                  |
| b3076                              | Reconductor the Edgewater – Loyalhanna 138 kV line (0.67 mile)  | APS (100%)                  |
| b3079                              | Replace the Wylie Ridge 500/345 kV transformer #7   | ATSI (72.30%) / DL (27.70%) |
| b3083                              | Reconductor the 138 kV bus at Butler and reconductor the 138 kV bus and replace line trap at Karns City   | APS (100%)                  |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)    |
|------------------------------------|--|----------------------------|
| b3128                              | Relocate 34.5 kV lines from generating station roof R. Paul Smith 138 kV station   | APS (100%)                 |
| b3214.1                            | Reconductor the Yukon – Smithton – Shepler Hill Jct 138 kV Line. Upgrade terminal equipment at Yukon and replace line relaying at Mitchell and Charleroi   | APS (12.21%) / DL (87.79%) |
| b3214.2                            | Reconductor the Smithton – Shepler Hill Jct 138 kV Line  | APS (4.74%) / DL (95.26%)  |
| b3230                              | At Enon substation install a second 138 kV, 28.8 MVAR nameplate, capacitor and the associated 138 kV capacitor switcher  | APS (100%)                 |
| b3240                              | Upgrade Cherry Run and Morgan terminals to make the transmission line the limiting component   | APS (100%)                 |
| b3241                              | Install 138 kV, 36 MVAR capacitor and a 5 uF reactor protected by a 138 kV capacitor switcher. Install a breaker on the 138 kV Junction terminal. Install a 138 kV 3.5 uF reactor on the existing Hardy 138 kV capacitor | APS (100%)                 |
| b3242                              | Reconfigure Stonewall 138 kV substation from its current configuration to a six-breaker, breaker-and-a-half layout and add two (2) 36 MVAR capacitors with capacitor switchers   | APS (100%)                 |
| b3318                              | Reconductor the Shanor Manor - Butler 138 kV line with an upgraded circuit breaker at Butler 138 kV station  | APS (100%)                 |
| b3325                              | Reconductor the Charleroi - Union 138 kV line and upgrade terminal equipment at Charleroi 138 kV station   | APS (100%)                 |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3681                              | Upgrade the Shingletown #82 230/46 kV Transformer circuit by installing a 230 kV breaker and disconnect switches, removing existing 230 kV switches, replacing 46 kV disconnect switches, replacing limiting substation conductor, and installing/replacing relays    | APS (100%)              |
| b3683                              | Reconductor the existing 556.5 ACSR line segments on the Messick Road – Ridgeley 138 kV line with 954 45/7 ACSR to achieve 308/376 MVA SN/SE and 349/445 MVA WN/WE ratings. Replace the remote end equipment for the line. The total length of the line is 5.02 miles | APS (100%)              |
| b3701                              | Replace terminal equipment at French's Mill and Junction 138 kV substations   | APS (100%)              |
| b3710                              | Reconductor AA2-161 to Yukon 138 kV Lines #1 and #2 with 954 ACSS conductor   | APS (100%)              |
| b3738                              | Replace limiting terminal equipment on Charleroi – Dry Run 138 kV line  | APS (100%)              |
| b3739                              | Replace limiting terminal equipment on Dry Run – Mitchell 138 kV line   | APS (100%)              |
| b3740                              | Replace limiting terminal equipment on Glen Falls – Bridgeport 138 kV line  | APS (100%)              |
| b3741                              | Replace limiting terminal equipment on Yukon - Charleroi #1 138 kV line   | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |  |  |            |
|-------|--|--|------------|
| b3742 | Replace limiting terminal equipment on Yukon - Charleroi #2 138 kV line  |  | APS (100%) |
| b3743 | At Bedington substation:<br>Replace substation conductor, wave trap, Current Transformers (CT's) and upgrade relaying<br>At Cherry Run substation:<br>Replace substation conductor, wave trap, CT's, disconnect switches, circuit breaker and upgrade relaying<br>At Marlowe substation: Replace substation conductor, wave trap, CT's and upgrade relaying  |  | APS (100%) |
| b3744 | Replace one span of 1272 ACSR from Krendale substation to structure 35 (approximately 630 feet)<br>Replace one span of 1272 ACSR from Shanor Manor to structure 21 (approximately 148 feet)<br>Replace 1272 ACSR risers at Krendale and Shanor Manor substations<br>Replace 1272 ACSR substation conductor at Krendale substation<br>Replace relaying at Krendale substation<br>Revise relay settings at Butler and Shanor Manor substations |  | APS (100%) |
| b3745 | Install redundant relaying at Carbon Center 230 kV substation  |  | APS (100%) |
| b3746 | Install redundant relaying at Meadow Brook 500 kV substation   |  | APS (100%) |
| b3747 | Install redundant relaying at Bedington 500 kV substation  |  | APS (100%) |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3761                              | Install 138 kV breaker on the Ridgway 138/46 kV #2 Transformer   | APS (100%)              |
| b3772                              | Reconductor 27.3 miles of the Messick Road – Morgan 138 kV line from 556 ACSR to 954 ACSR. At Messick Road substation, replace 138 kV wave trap, circuit breaker, CT's, disconnect switch, and substation conductor and upgrade relaying. At Morgan substation, upgrade relaying | APS (100%)              |
| b3773                              | Install 33 MVAR switched capacitor, 138 kV breaker, and associated relaying at McConnellsburg 138 kV substation  | APS (100%)              |
| b3717.3                            | Relay work at Springdale 138 kV station  | APS (100%)              |
| b3717.4                            | Transmission line work – a new transmission structure and necessary tower work to handle the change in tension at Cheswick 138 kV station  | APS (100%)              |
| b3781                              | Replace line drops to Doubs Transformer 3. New transformer rating: 721 MVA SN / 862 MVA SE   | APS (100%)              |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| <u>Required Transmission Enhancements</u> | <u>Annual Revenue Requirement</u>   | <u>Responsible Customer(s)</u>   |
|---|---|--|
| <u>b3800.8</u>                            | <u>Reconfigure Doubs 500 kV station and upgrade terminal equipment to new line</u>  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPSCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (13.16%) / BGE (0.79%) / Dominion (74.28%) / DPL (0.41%) / PECO (0.77%) / PEPSCO (10.59%)</u></p> |
| <u>b3800.9</u>                            | <u>Rebuild the existing Hunterstown - Carroll 115/138 kV Corridor as double circuit using 230 kV construction standards. New circuit will be operated at 230 kV. Existing circuit to remain at 115/138 kV</u> | <u>This upgrade ID is only for tracking purpose. Cost allocation details are available from b3800.10 ~ b3800.18</u>  |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                 |   |  |                                   |
|-----------------|---|--|-----------------------------------|
| <u>b3800.13</u> | <u>Rebuild the Germantown - Carroll 138 kV line to 230 kV double circuit construction (APS - PE Section)</u>                |  | <u>APS (82.49%) / ME (17.51%)</u> |
| <u>b3800.15</u> | <u>Construct new 230 kV Hunterstown - Carroll line (APS - PE Section)</u>   |  | <u>APS (99.86%) / ME (0.14%)</u>  |
| <u>b3800.16</u> | <u>Expand Carroll 230 kV substation to ring bus</u>   |  | <u>APS (99.86%) / ME (0.14%)</u>  |
| <u>b3800.17</u> | <u>Network upgrade at Carroll 230 kV substation</u>   |  | <u>APS (99.86%) / ME (0.14%)</u>  |
| <u>b3800.20</u> | <u>Fayetteville - Grand Point 138 kV - Replace line trap at Grand Point 138 kV station</u>                                  |  | <u>APS (100%)</u>                 |
| <u>b3800.21</u> | <u>Reid - Ringgold 138 kV line - Replace line trap, substation conductor, breaker, relaying and CTs at Ringgold station</u> |  | <u>APS (100%)</u>                 |
| <u>b3800.25</u> | <u>Taneytown 138 kV substation terminal upgrade</u>   |  | <u>APS (100%)</u>                 |

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| <p><u>b3800.101</u></p>            | <p><u>502 Junction substation two<br/>500 kV circuit breaker<br/>expansion</u></p> | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (25.59%) / BGE (9.79%) / Dominion (51.94%) / PEPCO (12.68%)</u></p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

| <u>Required Transmission Enhancements</u> | <u>Annual Revenue Requirement</u>  | <u>Responsible Customer(s)</u>  |
|---|--|---|
| <u>b3800.103</u>                          | <u>Rebuild approximately 16 miles of the Gore - Stonewall 138 kV line with 500 kV overbuild (502 Junction to Woodside 500 kV line section)</u> | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (25.59%) / BGE (9.79%) / Dominion (51.94%) / PEPCO (12.68%)</u></p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                         |  |  |  |
|-------------------------|--|--|--|
| <p><u>b3800.104</u></p> | <p><u>Rebuild approximately 15 miles of the Stonewall - Millville 138 kV line with 500 kV overbuild (502 Junction to Woodside 500 kV line section)</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (9.18%) / BGE (7.21%) / Dominion (72.52%) / PEPCO (11.09%)</u></p> |
|-------------------------|--|--|--|

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |  |  | <b><u>Load-Ratio Share Allocation:</u></b><br>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%) |
|------------------|--|--|---|
| <u>b3800.105</u> | <u>Rebuild approximately 6 miles of the Millville - Doubs 138 kV line with 500 kV overbuild (502 Junction to Woodside 500 kV line section)</u> |  | <b><u>DFAX Allocation:</u></b><br>APS (9.18%) / BGE (7.21%) / Dominion (72.52%) / PEPCO (11.09%)  |
| <u>b3800.111</u> | <u>Construct the Woodside - Stonewall 138 kV No. 1 line</u>  |  | <u>APS (100%)</u>   |
| <u>b3800.112</u> | <u>Construct the Woodside - Stonewall 138 kV No. 2 line</u>  |  | <u>APS (100%)</u>   |
| <u>b3800.114</u> | <u>Stonewall 138 kV substation two 138 kV breaker expansion</u>  |  | <u>APS (100%)</u>   |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3800.116                          | <p><u>Line work for terminating Doubs to Bismark line for Doubs side at Woodside 500 kV substation (FE Portion)</u></p> | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (27.49%) / BGE (9.83%) / Dominion (53.78%) / PEPCO (8.90%)</u></p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| <p><u>b3800.122</u></p>            | <p><u>Rebuild 500 kV line No. 514 from Doubs - Goose Creek 500 kV line. The Doubs - Goose Creek 500 kV line will be rebuilt and the Doubs - Dickerson 230 kV will be relocated and underbuilt on the same structure</u></p> | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (0.08%) / Dominion (99.90%) / PEPCO (0.02%)</u></p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| <p><u>b3800.123</u></p>            | <p><u>Doubs substation work - Re-terminate the rebuilt Doubs - Goose Creek 500 kV line in its existing bay, terminate the new Doubs - Aspen 500 kV line in the open bay at Doubs, Replace three 500 kV breakers, Replace 500 kV terminal equipment including disconnect switches, CTs and substation conductor &amp; Replace relaying (APS Portion)</u></p> | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (0.08%) / Dominion (99.90%) / PEPCO (0.02%)</u></p> |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

| <u>Required Transmission Enhancements</u> | <u>Annual Revenue Requirement</u>  | <u>Responsible Customer(s)</u>  |
|---|--|---|
| <u>b3800.124</u>                          | <u>New Doubs to Aspen 500 kV line (APS Portion)</u>  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (0.08%) / Dominion (99.90%) / PEPCO (0.02%)</u></p> |
| <u>b3800.125</u>                          | <u>Rebuild the Doubs - Dickerson 230 kV line. This will be underbuilt on the new Doubs - Goose Creek 500 kV line (APS Portion)</u> | <u>PEPCO (100%)</u>   |
| <u>b3800.126</u>                          | <u>Rebuild the Doubs - Aqueduct 230 kV line. This will be underbuilt on the new Doubs - Aspen 500 kV line (APS Portion)</u>        | <u>PEPCO (100%)</u>   |

\*Neptune Regional Transmission System, LLC

**Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |   |  |                     |
|------------------|---|--|---------------------|
| <u>b3800.127</u> | <u>Rebuild the Dickerson - Aqueduct 230 kV line. This will be underbuilt on the new Doubs - Aspen 500 kV line (APS Portion)</u> |  | <u>PEPCO (100%)</u> |
| <u>b3800.413</u> | <u>Replace Double Toll Gate 138 kV breaker MDT 138 OCB with a breaker rated 40 kA</u>   |  | <u>APS (100%)</u>   |
| <u>b3800.414</u> | <u>Replace Doubs 500 kV breaker DL-55 522LIN with a breaker rated 60 kA</u>   |  | <u>APS (100%)</u>   |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 17 – American Electric Power Service Corp.

Version 43.0.0  
Effective January 1, 2024  
(Accepted in Docket No. ER24-786-000)

**SCHEDULE 12 – APPENDIX A**

- (17) American Electric Power Service Corporation on behalf of its affiliate companies: AEP Appalachian Transmission Company, Inc.; AEP Indiana Michigan Transmission Company, Inc.; AEP Ohio Transmission Company, Inc.; AEP West Virginia Transmission Company, Inc.; Appalachian Power Company; Indiana Michigan Power Company; Kingsport Power Company; Ohio Power Company and Wheeling Power Company**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |  |
|---------|---|--|--|
| b1570.4 | Add a 345 kV breaker at Marysville station and a 0.1 mile 345 kV line extension from Marysville to the new 345/69 kV Dayton transformer   |  | AEP (100%)   |
| b1660.1 | Cloverdale: install 6-765 kV breakers, incremental work for 2 additional breakers, reconfigure and relocate miscellaneous facilities, establish 500 kV station and 500 kV tie with 765 kV station |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> AEP (<del>0.10</del><u>0.37</u>%) / BGE (<del>43.26</del><u>26.21</u>%) / Dayton (<del>0.01</del>%) / DEOK (<del>0.10</del><u>0.02</u>%) / EKPC (<del>0.06</del><u>0.01</u>%) / PEPCO (<del>56.48</del><u>36.09</u>%)</p> |

\*Neptune Regional Transmission System, LLC

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b1797.1                            | Reconductor the AEP portion of the Cloverdale - Lexington 500 kV line with 2-1780 ACSS                           | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPSCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> AEP (<del>0.28</del><u>0.06</u>%) / ATSI (<del>0.18</del>%) / BGE (<del>43.01</del><u>19.46</u>%) / Dayton (<del>0.07</del><u>0.02</u>%) / DEOK (<del>0.17</del><u>0.04</u>%) / Dominion (<del>53.61</del>%) / EKPC (<del>0.10</del><u>0.02</u>%) / PEPSCO (<del>56.19</del><u>26.79</u>%)</p> |
| b2055                              | Upgrade relay at Brues station   | AEP (100%)   |
| b2122.3                            | Upgrade terminal equipment at Howard on the Howard - Brookside 138 kV line to achieve ratings of 252/291 (SN/SE) | AEP (100%)   |
| b2122.4                            | Perform a sag study on the Howard - Brookside 138 kV line  | AEP (100%)   |
| b2229                              | Install a 300 MVAR reactor at Dequine 345 kV   | AEP (100%)   |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2230                              | Replace existing 150 MVAR reactor at Amos 765 kV substation on Amos - N. Proctorville - Hanging Rock with 300 MVAR reactor          | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPSCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> AEP (100%)</p> |
| b2231                              | Install 765 kV reactor breaker at Dumont 765 kV substation on the Dumont - Wilton Center line                                       | AEP (100%)   |
| b2232                              | Install 765 kV reactor breaker at Marysville 765 kV substation on the Marysville - Maliszewski line                                 | AEP (100%)   |
| b2233                              | Change transformer tap settings for the Baker 765/345 kV transformer  | AEP (100%)   |
| b2252                              | Loop the North Muskingum - Crooksville 138 kV line into AEP's Philo 138 kV station which lies approximately 0.4 miles from the line | AEP (100%)   |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2253                              | Install an 86.4 MVAR capacitor bank at Gorsuch 138 kV station in Ohio   | AEP (100%)              |
| b2254                              | Rebuild approximately 4.9 miles of Corner - Degussa 138 kV line in Ohio   | AEP (100%)              |
| b2255                              | Rebuild approximately 2.8 miles of Maliszewski - Polaris 138 kV line in Ohio  | AEP (100%)              |
| b2256                              | Upgrade approximately 36 miles of 138 kV through path facilities between Harrison 138 kV station and Ross 138 kV station in Ohio  | AEP (100%)              |
| b2257                              | Rebuild the Pokagon - Corey 69 kV line as a double circuit 138 kV line with one side at 69 kV and the other side as an express circuit between Pokagon and Corey stations | AEP (100%)              |
| b2258                              | Rebuild 1.41 miles of #2 CU 46 kV line between Tams Mountain - Slab Fork to 138 kV standards. The line will be strung with 1033 ACSR                                      | AEP (100%)              |
| b2259                              | Install a new 138/69 kV transformer at George Washington 138/69 kV substation to provide support to the 69 kV system in the area  | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s) |
|------------------------------------|---|--|-------------------------|
| b2286                              | Rebuild 4.7 miles of Muskingum River - Wolf Creek 138 kV line and remove the 138/138 kV transformer at Wolf Creek Station |  | AEP (100%)              |
| b2287                              | Loop in the Meadow Lake - Olive 345 kV circuit into Reynolds 765/345 kV station   |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2344.1                            | Establish a new 138/12 kV station, transfer and consolidate load from its Nicholasville and Marcellus 34.5 kV stations at this new station | AEP (100%)              |
| b2344.2                            | Tap the Hydramatic – Valley 138 kV circuit (~ structure 415), build a new 138 kV line (~3.75 miles) to this new station                    | AEP (100%)              |
| b2344.3                            | From this station, construct a new 138 kV line (~1.95 miles) to REA’s Marcellus station  | AEP (100%)              |
| b2344.4                            | From REA’s Marcellus station construct new 138 kV line (~2.35 miles) to a tap point on Valley – Hydramatic 138 kV ckt (~structure 434)     | AEP (100%)              |
| b2344.5                            | Retire sections of the 138 kV line in between structure 415 and 434 (~ 2.65 miles)   | AEP (100%)              |
| b2344.6                            | Retire AEP’s Marcellus 34.5/12 kV and Nicholasville 34.5/12 kV stations and also the Marcellus – Valley 34.5 kV line                       | AEP (100%)              |
| b2345.1                            | Construct a new 69 kV line from Hartford to Keeler (~8 miles)  | AEP (100%)              |
| b2345.2                            | Rebuild the 34.5 kV lines between Keeler - Sister Lakes and Glenwood tap switch to 69 kV (~12 miles)                                       | AEP (100%)              |

**American Electric Power Service Corporation on behalf of its affiliate companies: AEP Appalachian Transmission Company, Inc.; AEP Indiana Michigan Transmission Company, Inc.; AEP Ohio Transmission Company, Inc.; AEP West Virginia Transmission Company, Inc.; Appalachian Power Company; Indiana Michigan Power Company; Kingsport Power Company; Ohio Power Company and Wheeling Power Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2345.3 | Implement in - out at Keeler and Sister Lakes 34.5 kV stations  |  | AEP (100%) |
| b2345.4 | Retire Glenwood tap switch and construct a new Rothadew station. These new lines will continue to operate at 34.5 kV  |  | AEP (100%) |
| b2346   | Perform a sag study for Howard - North Bellville - Millwood 138 kV line including terminal equipment upgrades   |  | AEP (100%) |
| b2347   | Replace the North Delphos 600A switch. Rebuild approximately 18.7 miles of 138 kV line North Delphos - S073. Reconductor the line and replace the existing tower structures |  | AEP (100%) |
| b2348   | Construct a new 138 kV line from Richlands Station to intersect with the Hales Branch - Grassy Creek 138 kV circuit   |  | AEP (100%) |
| b2374   | Change the existing CT ratios of the existing equipment along Bearskin - Smith Mountain 138kV circuit   |  | AEP (100%) |
| b2375   | Change the existing CT ratios of the existing equipment along East Danville-Banister 138kV circuit  |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2376                              | Replace the Turner 138 kV breaker 'D'       | AEP (100%)              |
| b2377                              | Replace the North Newark 138 kV breaker 'P' | AEP (100%)              |
| b2378                              | Replace the Sporn 345 kV breaker 'DD'       | AEP (100%)              |
| b2379                              | Replace the Sporn 345 kV breaker 'DD2'      | AEP (100%)              |
| b2380                              | Replace the Muskingum 345 kV breaker 'SE'   | AEP (100%)              |
| b2381                              | Replace the East Lima 138 kV breaker 'E1'   | AEP (100%)              |
| b2382                              | Replace the Delco 138 kV breaker 'R'        | AEP (100%)              |
| b2383                              | Replace the Sporn 345 kV breaker 'AA2'      | AEP (100%)              |
| b2384                              | Replace the Sporn 345 kV breaker 'CC'       | AEP (100%)              |
| b2385                              | Replace the Sporn 345 kV breaker 'CC2'      | AEP (100%)              |
| b2386                              | Replace the Astor 138 kV breaker '102'      | AEP (100%)              |
| b2387                              | Replace the Muskingum 345 kV breaker 'SH'   | AEP (100%)              |
| b2388                              | Replace the Muskingum 345 kV breaker 'SI'   | AEP (100%)              |
| b2389                              | Replace the Hyatt 138 kV breaker '105N'     | AEP (100%)              |
| b2390                              | Replace the Muskingum 345 kV breaker 'SG'   | AEP (100%)              |
| b2391                              | Replace the Hyatt 138 kV breaker '101C'     | AEP (100%)              |
| b2392                              | Replace the Hyatt 138 kV breaker '104N'     | AEP (100%)              |
| b2393                              | Replace the Hyatt 138 kV breaker '104S'     | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |  |
|-------|---|--|--|
| b2394 | Replace the Sporn 345 kV breaker 'CC1'  |  | AEP (100%)   |
| b2409 | Install two 56.4 MVAR capacitor banks at the Melmore 138 kV station in Ohio   |  | AEP (100%)   |
| b2410 | Convert Hogan Mullin 34.5 kV line to 138 kV, establish 138 kV line between Jones Creek and Strawton, rebuild existing Mullin Elwood 34.5 kV and terminate line into Strawton station, retire Mullin station |  | AEP (100%)   |
| b2411 | Rebuild the 3/0 ACSR portion of the Hadley - Kroemer Tap 69 kV line utilizing 795 ACSR conductor  |  | AEP (100%)   |
| b2423 | Install a 300 MVAR shunt reactor at AEP's Wyoming 765 kV station  |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.76</del>5.82%) / ATSI (<del>8.04</del>7.49%) / BGE (<del>4.11</del>4.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.12</del>2.03%) / DEOK (<del>3.25</del>3.21%) / DL (<del>1.71</del>1.59%) / DPL (<del>2.60</del>2.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.89</del>2.35%) / JCPL (<del>3.86</del>3.59%) / ME (<del>1.90</del>1.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del>0.06%) / PECO (<del>5.40</del>5.11%) / PENELEC (<del>1.78</del>1.73%) / PEPSCO (<del>3.67</del>3.68%) / PPL (<del>4.72</del>4.43%) / PSEG (<del>6.39</del>5.99%) / RE (<del>0.26</del>0.24%)</p> <p><b>DFAX Allocation:</b><br/> AEP (100%)</p> |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2444   | Willow - Eureka 138 kV line: Reconductor 0.26 mile of 4/0 CU with 336 ACSS   |  | AEP (100%) |
| b2445   | Complete a sag study of Tidd - Mahans Lake 138 kV line   |  | AEP (100%) |
| b2449   | Rebuild the 7-mile 345 kV line between Meadow Lake and Reynolds 345 kV stations  |  | AEP (100%) |
| b2462   | Add two 138 kV circuit breakers at Fremont station to fix tower contingency '408 2'  |  | AEP (100%) |
| b2501   | Construct a new 138/69 kV Yager station by tapping 2-138 kV FE circuits (Nottingham-Cloverdale, Nottingham-Harmon)                     |  | AEP (100%) |
| b2501.2 | Build a new 138 kV line from new Yager station to Azalea station   |  | AEP (100%) |
| b2501.3 | Close the 138 kV loop back into Yager 138 kV by converting part of local 69 kV facilities to 138 kV                                    |  | AEP (100%) |
| b2501.4 | Build 2 new 69 kV exits to reinforce 69 kV facilities and upgrade conductor between Irish Run 69 kV Switch and Bowerstown 69 kV Switch |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2502.1 | Construct new 138 kV switching station Nottingham tapping 6-138 kV FE circuits (Holloway-Brookside, Holloway-Harmon #1 and #2, Holloway-Reeds, Holloway-New Stacy, Holloway-Cloverdale). Exit a 138 kV circuit from new station to Freebyrd station |  | AEP (100%) |
| b2502.2 | Convert Freebyrd 69 kV to 138 kV  |  | AEP (100%) |
| b2502.3 | Rebuild/convert Freebyrd-South Cadiz 69 kV circuit to 138 kV  |  | AEP (100%) |
| b2502.4 | Upgrade South Cadiz to 138 kV breaker and a half  |  | AEP (100%) |
| b2530   | Replace the Sporn 138 kV breaker 'G1' with 80 kA breaker  |  | AEP (100%) |
| b2531   | Replace the Sporn 138 kV breaker 'D' with 80 kA breaker   |  | AEP (100%) |
| b2532   | Replace the Sporn 138 kV breaker 'O1' with 80 kA breaker  |  | AEP (100%) |
| b2533   | Replace the Sporn 138 kV breaker 'P2' with 80 kA breaker  |  | AEP (100%) |
| b2534   | Replace the Sporn 138 kV breaker 'U' with 80 kA breaker   |  | AEP (100%) |
| b2535   | Replace the Sporn 138 kV breaker 'O' with 80 kA breaker   |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |            |
|-------|---|--|------------|
| b2536 | Replace the Sporn 138 kV breaker 'O2' with 80 kA breaker  |  | AEP (100%) |
| b2537 | Replace the Robinson Park 138 kV breakers A1, A2, B1, B2, C1, C2, D1, D2, E1, E2, and F1 with 63 kA breakers  |  | AEP (100%) |
| b2555 | Reconductor 0.5 miles Tiltonsville – Windsor 138 kV and string the vacant side of the 4.5 mile section using 556 ACSR in a six wire configuration   |  | AEP (100%) |
| b2556 | Install two 138 kV prop structures to increase the maximum operating temperature of the Clinch River- Clinch Field 138 kV line  |  | AEP (100%) |
| b2581 | Temporary operating procedure for delay of upgrade b1464. Open the Corner 138 kV circuit breaker 86 for an overload of the Corner – Washington MP 138 kV line. The tower contingency loss of Belmont – Trissler 138 kV and Belmont – Edgelawn 138 kV should be added to Operational contingency |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2591   | Construct a new 69 kV line approximately 2.5 miles from Colfax to Drewry's. Construct a new Drewry's station and install a new circuit breaker at Colfax station.               |  | AEP (100%) |
| b2592   | Rebuild existing East Coshocton – North Coshocton double circuit line which contains Newcomerstown – N. Coshocton 34.5 kV Circuit and Coshocton – North Coshocton 69 kV circuit |  | AEP (100%) |
| b2593   | Rebuild existing West Bellaire – Glencoe 69 kV line with 138 kV & 69 kV circuits and install 138/69 kV transformer at Glencoe Switch  |  | AEP (100%) |
| b2594   | Rebuild 1.0 mile of Brantley – Bridge Street 69 kV Line with 1033 ACSR overhead conductor   |  | AEP (100%) |
| b2595.1 | Rebuild 7.82 mile Elkhorn City – Haysi S.S 69 kV line utilizing 1033 ACSR built to 138 kV standards   |  | AEP (100%) |
| b2595.2 | Rebuild 5.18 mile Moss – Haysi SS 69 kV line utilizing 1033 ACSR built to 138 kV standards  |  | AEP (100%) |
| b2596   | Move load from the 34.5 kV bus to the 138 kV bus by installing a new 138/12 kV XF at New Carlisle station in Indiana  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2597   | Rebuild approximately 1 mi. section of Dragoon-Virgil Street 34.5 kV line between Dragoon and Dodge Tap switch and replace Dodge switch MOAB to increase thermal capability of Dragoon-Dodge Tap branch |  | AEP (100%) |
| b2598   | Rebuild approximately 1 mile section of the Kline-Virgil Street 34.5 kV line between Kline and Virgil Street tap. Replace MOAB switches at Beiger, risers at Kline, switches and bus at Virgil Street   |  | AEP (100%) |
| b2599   | Rebuild approximately 0.1 miles of 69 kV line between Albion and Albion tap   |  | AEP (100%) |
| b2600   | Rebuild Fremont – Pound line as 138 kV  |  | AEP (100%) |
| b2601   | Fremont Station Improvements  |  | AEP (100%) |
| b2601.1 | Replace MOAB towards Beaver Creek with 138 kV breaker   |  | AEP (100%) |
| b2601.2 | Replace MOAB towards Clinch River with 138 kV breaker   |  | AEP (100%) |
| b2601.3 | Replace 138 kV Breaker A with new bus-tie breaker   |  | AEP (100%) |
| b2601.4 | Re-use Breaker A as high side protection on transformer #1  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2601.5 | Install two (2) circuit switchers on high side of transformers # 2 and 3 at Fremont Station  |  | AEP (100%) |
| b2602.1 | Install 138 kV breaker E2 at North Proctorville  |  | AEP (100%) |
| b2602.2 | Construct 2.5 Miles of 138 kV 1033 ACSR from East Huntington to Darrah 138 kV substations  |  | AEP (100%) |
| b2602.3 | Install breaker on new line exit at Darrah towards East Huntington   |  | AEP (100%) |
| b2602.4 | Install 138 kV breaker on new line at East Huntington towards Darrah   |  | AEP (100%) |
| b2602.5 | Install 138 kV breaker at East Huntington towards North Proctorville   |  | AEP (100%) |
| b2603   | Boone Area Improvements  |  | AEP (100%) |
| b2603.1 | Purchase approximately a 200X300 station site near Slaughter Creek 46 kV station (Wilbur Station)  |  | AEP (100%) |
| b2603.2 | Install 3 138 kV circuit breakers, Cabin Creek to Hernshaw 138 kV circuit  |  | AEP (100%) |
| b2603.3 | Construct 1 mi. of double circuit 138 kV line on Wilbur – Boone 46 kV line with 1590 ACSS 54/19 conductor @ 482 Degree design temp. and 1-159 12/7 ACSR and one 86 Sq.MM. 0.646” OPGW Static wires |  | AEP (100%) |
| b2604   | Bellefonte Transformer Addition  |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2604.1                            | Remove approximately 11.32 miles of the 69 kV line between Millbrook Park and Franklin Furnace   | AEP (100%)              |
| b2604.2                            | At Millbrook Park station, add a new 138/69 kV Transformer #2 (90 MVA) with 3000 A 40 kA breakers on the high and low side. Replace the 600 A MOAB switch and add a 3000 A circuit switcher on the high side of Transformer #1 | AEP (100%)              |
| b2604.3                            | Replace Sciotoville 69 kV station with a new 138/12 kV in-out station (Cottrell) with 2000 A line MOABs facing Millbrook Park and East Wheelersburg 138 kV station   | AEP (100%)              |
| b2604.4                            | Tie Cottrell switch into the Millbrook Park – East Wheelersburg 138 kV circuit by constructing 0.50 mile of line using 795 ACSR 26/7 Drake (SE 359 MVA)  | AEP (100%)              |
| b2604.5                            | Install a new 2000 A 3-way PoP switch outside of Texas Eastern 138 kV substation (Sadiq switch)  | AEP (100%)              |
| b2604.6                            | Replace the Wheelersburg 69 kV station with a new 138/12 kV in-out station (Sweetgum) with a 3000 A 40 kA breaker facing Sadiq switch and a 2000 A 138 kV MOAB facing Althea   | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |  |  |            |
|----------|--|--|------------|
| b2604.7  | Build approximately 1.4 miles of new 138 kV line using 795 ACSR 26/7 Drake (SE 359 MVA) between the new Sadiq switch and the new Sweetgum 138 kV station   |  | AEP (100%) |
| b2604.8  | Remove the existing 69 kV Hayport Road switch  |  | AEP (100%) |
| b2604.9  | Rebuild approximately 2.3 miles along existing Right-Of-Way from Sweetgum to the Hayport Road switch 69 kV location as 138 kV single circuit and rebuild approximately 2.0 miles from the Hayport Road switch to Althea 69 kV with double circuit 138 kV construction, one side operated at 69 kV to continue service to K.O. Wheelersburg, using 795 ACSR 26/7 Drake (SE 359 MVA) |  | AEP (100%) |
| b2604.10 | Build a new station (Althea) with a 138/69 kV, 90 MVA transformer. The 138 kV side will have a single 2000 A 40 kA circuit breaker and the 69 kV side will be a 2000 A 40 kA three breaker ring bus  |  | AEP (100%) |
| b2604.11 | Remote end work at Hanging Rock, East Wheelersburg and North Haverhill 138 kV  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2605   | Rebuild and reconductor Kammer – George Washington 69 kV circuit and George Washington – Moundsville ckt #1, designed for 138 kV. Upgrade limiting equipment at remote ends and at tap stations |  | AEP (100%) |
| b2606   | Convert Bane – Hammondsville from 23 kV to 69 kV operation  |  | AEP (100%) |
| b2607   | Pine Gap Relay Limit Increase   |  | AEP (100%) |
| b2608   | Richlands Relay Upgrade   |  | AEP (100%) |
| b2609   | Thorofare – Goff Run – Powell Mountain 138 kV Build   |  | AEP (100%) |
| b2610   | Rebuild Pax Branch – Scaraboro as 138 kV  |  | AEP (100%) |
| b2611   | Skin Fork Area Improvements   |  | AEP (100%) |
| b2611.1 | New 138/46 kV station near Skin Fork and other components   |  | AEP (100%) |
| b2611.2 | Construct 3.2 miles of 1033 ACSR double circuit from new Station to cut into Sundial-Baileysville 138 kV line   |  | AEP (100%) |
| b2634.1 | Replace metering BCT on Tanners Creek CB T2 with a slip over CT with higher thermal rating in order to remove 1193 MVA limit on facility (Miami Fort-Tanners Creek 345 kV line)                 |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2643                              | Replace the Darrah 138 kV breaker 'L' with 40 kA rated breaker   | AEP (100%)   |
| b2645                              | Ohio Central 138 kV Loop   | AEP (100%)   |
| b2667                              | Replace the Muskingum 138 kV bus # 1 and 2   | AEP (100%)   |
| b2668                              | Reconductor Dequine to Meadow Lake 345 kV circuit #1 utilizing dual 954 ACSR 54/7 cardinal conductor   | AEP ( <del>99.8998.19%</del> ) / OVEC ( <del>0.111.81%</del> ) |
| b2668.1                            | Replace the bus/risers at Dequine 345 kV station   | AEP (100%)   |
| b2669                              | Install a second 345/138 kV transformer at Desoto  | AEP (100%)   |
| b2670                              | Replace switch at Elk Garden 138 kV substation (on the Elk Garden – Lebanon 138 kV circuit)  | AEP (100%)   |
| b2671                              | Replace/upgrade/add terminal equipment at Bradley, Mullensville, Pinnacle Creek, Itmann, and Tams Mountain 138 kV substations. Sag study on Mullens – Wyoming and Mullens – Tams Mt. 138 kV circuits | AEP (100%)   |

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| Required Transmission Enhancements | Annual Revenue Requirement                                     | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2687.1                            | Install a +/- 450 MVAR SVC at Jacksons Ferry 765 kV substation | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPSCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> AEP (100%)</p> |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2687.2                            | Install a 300 MVAR shunt line reactor on the Broadford end of the Broadford – Jacksons Ferry 765 kV line   | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPSCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> AEP (100%)</p> |
| b2697.1                            | Mitigate violations identified by sag study to operate Fieldale-Thornton-Franklin 138 kV overhead line conductor at its max. operating temperature. 6 potential line crossings to be addressed | AEP (100%)   |
| b2697.2                            | Replace terminal equipment at AEP’s Danville and East Danville substations to improve thermal capacity of Danville – East Danville 138 kV circuit  | AEP (100%)   |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2698   | Replace relays at AEP's Cloverdale and Jackson's Ferry substations to improve the thermal capacity of Cloverdale – Jackson's Ferry 765 kV line |  | AEP (100%) |
| b2701.1 | Construct Herlan station as breaker and a half configuration with 9-138 kV CB's on 4 strings and with 2-28.8 MVAR capacitor banks              |  | AEP (100%) |
| b2701.2 | Construct new 138 kV line from Herlan station to Blue Racer station. Estimated approx. 3.2 miles of 1234 ACSS/TW Yukon and OPGW                |  | AEP (100%) |
| b2701.3 | Install 1-138 kV CB at Blue Racer to terminate new Herlan circuit  |  | AEP (100%) |
| b2714   | Rebuild/upgrade line between Glencoe and Willow Grove Switch 69 kV   |  | AEP (100%) |
| b2715   | Build approximately 11.5 miles of 34.5 kV line with 556.5 ACSR 26/7 Dove conductor on wood poles from Flushing station to Smyrna station       |  | AEP (100%) |
| b2727   | Replace the South Canton 138 kV breakers 'K', 'J', 'J1', and 'J2' with 80 kA breakers  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2731   | Convert the Sunnyside – East Sparta – Malvern 23 kV sub-transmission network to 69 kV. The lines are already built to 69 kV standards  |  | AEP (100%) |
| b2733   | Replace South Canton 138 kV breakers ‘L’ and ‘L2’ with 80 kA rated breakers  |  | AEP (100%) |
| b2750.1 | Retire Betsy Layne 138/69/43 kV station and replace it with the greenfield Stanville station about a half mile north of the existing Betsy Layne station   |  | AEP (100%) |
| b2750.2 | Relocate the Betsy Layne capacitor bank to the Stanville 69 kV bus and increase the size to 14.4 MVAR  |  | AEP (100%) |
| b2753.1 | Replace existing George Washington station 138 kV yard with GIS 138 kV breaker and a half yard in existing station footprint. Install 138 kV revenue metering for new IPP connection             |  | AEP (100%) |
| b2753.2 | Replace Dilles Bottom 69/4 kV Distribution station as breaker and a half 138 kV yard design including AEP Distribution facilities but initial configuration will constitute a 3 breaker ring bus |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2753.3                            | Connect two 138 kV 6-wired circuits from “Point A” (currently de-energized and owned by FirstEnergy) in circuit positions previously designated Burger #1 & Burger #2 138 kV. Install interconnection settlement metering on both circuits exiting Holloway | AEP (100%)              |
| b2753.6                            | Build double circuit 138 kV line from Dilles Bottom to “Point A”. Tie each new AEP circuit in with a 6-wired line at Point A. This will create a Dilles Bottom – Holloway 138 kV circuit and a George Washington – Holloway 138 kV circuit                  | AEP (100%)              |
| b2753.7                            | Retire line sections (Dilles Bottom – Bellaire and Moundsville – Dilles Bottom 69 kV lines) south of FirstEnergy 138 kV line corridor, near “Point A”. Tie George Washington – Moundsville 69 kV circuit to George Washington – West Bellaire 69 kV circuit | AEP (100%)              |
| b2753.8                            | Rebuild existing 69 kV line as double circuit from George Washington – Dilles Bottom 138 kV. One circuit will cut into Dilles Bottom 138 kV initially and the other will go past with future plans to cut in  | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |  |
|---------|--|--|--|
| b2760   | Perform a Sag Study of the Saltville – Tazewell 138 kV line to increase the thermal rating of the line   |  | AEP (100%)   |
| b2761.2 | Perform a Sag Study of the Hazard – Wooten 161 kV line to increase the thermal rating of the line  |  | AEP (100%)   |
| b2761.3 | Rebuild the Hazard – Wooten 161 kV line utilizing 795 26/7 ACSR conductor (300 MVA rating)   |  | AEP (100%)   |
| b2762   | Perform a Sag Study of Nagel – West Kingsport 138 kV line to increase the thermal rating of the line   |  | AEP (100%)   |
| b2776   | Reconductor the entire Dequine – Meadow Lake 345 kV circuit #2   |  | AEP ( <del>99.89</del> <u>98.19</u> %) / OVEC ( <del>0.11</del> <u>1.81</u> %) |
| b2777   | Reconductor the entire Dequine – Eugene 345 kV circuit #1  |  | AEP ( <del>5.96</del> <u>100</u> %) / <del>EKPC (89.89%)</del> / OVEC (4.15%)  |
| b2779.1 | Construct a new 138 kV station, Campbell Road, tapping into the Grabill – South Hicksville 138 kV line   |  | AEP (100%)   |
| b2779.2 | Reconstruct sections of the Butler-N.Hicksville and Auburn-Butler 69 kV circuits as 138 kV double circuit and extend 138 kV from Campbell Road station |  | AEP (100%)   |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2779.3 | Construct a new 345/138 kV SDI Wilmington Station which will be sourced from Collingwood 345 kV and serve the SDI load at 345 kV and 138 kV, respectively  |  | AEP (100%) |
| b2779.4 | Loop 138 kV circuits in-out of the new SDI Wilmington 138 kV station resulting in a direct circuit to Auburn 138 kV and an indirect circuit to Auburn and Rob Park via Dunton Lake, and a circuit to Campbell Road; Reconductor 138 kV line section between Dunton Lake – SDI Wilmington |  | AEP (100%) |
| b2779.5 | Expand Auburn 138 kV bus   |  | AEP (100%) |
| b2779.6 | Construct a 345 kV ring bus at Dunton Lake to serve Steel Dynamics, Inc. (SDI) load at 345 kV via two (2) circuits   |  | AEP (100%) |
| b2779.7 | Retire Collingwood 345 kV station  |  | AEP (100%) |
| b2787   | Reconductor 0.53 miles (14 spans) of the Kaiser Jct. - Air Force Jct. Sw section of the Kaiser - Heath 69 kV circuit/line with 336 ACSR to match the rest of the circuit (73 MVA rating, 78% loading)  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |  |  |            |
|-------|--|--|------------|
| b2788 | Install a new 3-way 69 kV line switch to provide service to AEP's Barnesville distribution station. Remove a portion of the #1 copper T-Line from the 69 kV through-path |  | AEP (100%) |
| b2789 | Rebuild the Brues - Glendale Heights 69 kV line section (5 miles) with 795 ACSR (128 MVA rating, 43% loading)  |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2790                              | Install a 3 MVAR, 34.5 kV cap bank at Caldwell substation   | AEP (100%)              |
| b2791                              | Rebuild Tiffin – Howard, new transformer at Chatfield   | AEP (100%)              |
| b2791.1                            | Rebuild portions of the East Tiffin - Howard 69 kV line from East Tiffin to West Rockaway Switch (0.8 miles) using 795 ACSR Drake conductor (129 MVA rating, 50% loading)   | AEP (100%)              |
| b2791.2                            | Rebuild Tiffin - Howard 69 kV line from St. Stephen’s Switch to Hinesville (14.7 miles) using 795 ACSR Drake conductor (90 MVA rating, non-conductor limited, 38% loading)  | AEP (100%)              |
| b2791.3                            | New 138/69 kV transformer with 138/69 kV protection at Chatfield  | AEP (100%)              |
| b2791.4                            | New 138/69 kV protection at existing Chatfield transformer  | AEP (100%)              |
| b2792                              | Replace the Elliott transformer with a 130 MVA unit, reconductor 0.42 miles of the Elliott – Ohio University 69 kV line with 556 ACSR to match the rest of the line conductor (102 MVA rating, 73% loading) and rebuild 4 miles of the Clark Street – Strouds R | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2793                              | Energize the spare Fremont Center 138/69 kV 130 MVA transformer #3. Reduces overloaded facilities to 46% loading   | AEP (100%)              |
| b2794                              | Construct new 138/69/34 kV station and 1-34 kV circuit (designed for 69 kV) from new station to Decliff station, approximately 4 miles, with 556 ACSR conductor (51 MVA rating)                | AEP (100%)              |
| b2795                              | Install a 34.5 kV 4.8 MVAR capacitor bank at Killbuck 34.5 kV station  | AEP (100%)              |
| b2796                              | Rebuild the Malvern - Oneida Switch 69 kV line section with 795 ACSR (1.8 miles, 125 MVA rating, 55% loading)  | AEP (100%)              |
| b2797                              | Rebuild the Ohio Central - Conesville 69 kV line section (11.8 miles) with 795 ACSR conductor (128 MVA rating, 57% loading). Replace the 50 MVA Ohio Central 138/69 kV XFMR with a 90 MVA unit | AEP (100%)              |
| b2798                              | Install a 14.4 MVAR capacitor bank at West Hicksville station. Replace ground switch/MOAB at West Hicksville with a circuit switcher   | AEP (100%)              |
| b2799                              | Rebuild Valley - Almena, Almena - Hartford, Riverside - South Haven 69 kV lines. New line exit at Valley Station. New transformers at Almena and Hartford                                      | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2799.1                            | Rebuild 12 miles of Valley – Almena 69 kV line as a double circuit 138/69 kV line using 795 ACSR conductor (360 MVA rating) to introduce a new 138 kV source into the 69 kV load pocket around Almena station | AEP (100%)              |
| b2799.2                            | Rebuild 3.2 miles of Almena to Hartford 69 kV line using 795 ACSR conductor (90 MVA rating)   | AEP (100%)              |
| b2799.3                            | Rebuild 3.8 miles of Riverside – South Haven 69 kV line using 795 ACSR conductor (90 MVA rating)  | AEP (100%)              |
| b2799.4                            | At Valley station, add new 138 kV line exit with a 3000 A 40 kA breaker for the new 138 kV line to Almena and replace CB D with a 3000 A 40 kA breaker  | AEP (100%)              |
| b2799.5                            | At Almena station, install a 90 MVA 138/69 kV transformer with low side 3000 A 40 kA breaker and establish a new 138 kV line exit towards Valley  | AEP (100%)              |
| b2799.6                            | At Hartford station, install a second 90 MVA 138/69 kV transformer with a circuit switcher and 3000 A 40 kA low side breaker  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2817                              | Replace Delaware 138 kV breaker 'P' with a 40 kA breaker                         | AEP (100%)              |
| b2818                              | Replace West Huntington 138 kV breaker 'F' with a 40 kA breaker                  | AEP (100%)              |
| b2819                              | Replace Madison 138 kV breaker 'V' with a 63 kA breaker                          | AEP (100%)              |
| b2820                              | Replace Sterling 138 kV breaker 'G' with a 40 kA breaker                         | AEP (100%)              |
| b2821                              | Replace Morse 138 kV breakers '103', '104', '105', and '106' with 63 kA breakers | AEP (100%)              |
| b2822                              | Replace Clinton 138 kV breakers '105' and '107' with 63 kA breakers              | AEP (100%)              |
| b2826.1                            | Install 300 MVAR reactor at Ohio Central 345 kV substation                       | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |   |
|---------|--|--|---|
| b2826.2 | Install 300 MVAR reactor at West Bellaire 345 kV substation  |  | AEP (100%)  |
| b2831.1 | Upgrade the Tanner Creek – Miami Fort 345 kV circuit (AEP portion)   |  | <b>DFAX Allocation:</b><br>AEP ( <del>27.09</del> <u>24.63</u> %) / Dayton<br>( <del>38.64</del> <u>38.63</u> %) / DEOK<br>( <del>34.27</del> <u>36.74</u> %) |
| b2832   | Six wire the Kyger Creek – Sporn 345 kV circuits #1 and #2 and convert them to one circuit                                       |  | AEP (100%)  |
| b2833   | Reconductor the Maddox Creek – East Lima 345 kV circuit with 2-954 ACSS Cardinal conductor                                       |  | <b>DFAX Allocation:</b><br>AEP ( <del>76.06</del> <u>75.78</u> %) / Dayton<br>( <del>23.94</del> <u>24.22</u> %)  |
| b2834   | Reconductor and string open position and sixwire 6.2 miles of the Chemical – Capitol Hill 138 kV circuit                         |  | AEP (100%)  |
| b2872   | Replace the South Canton 138 kV breaker ‘K2’ with a 80 kA breaker  |  | AEP (100%)  |
| b2873   | Replace the South Canton 138 kV breaker “M” with a 80 kA breaker   |  | AEP (100%)  |
| b2874   | Replace the South Canton 138 kV breaker “M2” with a 80 kA breaker  |  | AEP (100%)  |
| b2878   | Upgrade the Clifty Creek 345 kV risers   |  | AEP (100%)  |
| b2880   | Rebuild approximately 4.77 miles of the Cannonsburg – South Neal 69 kV line section utilizing 795 ACSR conductor (90 MVA rating) |  | AEP (100%)  |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2881                              | Rebuild ~1.7 miles of the Dunn Hollow – London 46 kV line section utilizing 795 26/7 ACSR conductor (58 MVA rating, non-conductor limited)   | AEP (100%)              |
| b2882                              | Rebuild Reusens - Peakland Switch 69 kV line. Replace Peakland Switch  | AEP (100%)              |
| b2882.1                            | Rebuild the Reusens - Peakland Switch 69 kV line (approximately 0.8 miles) utilizing 795 ACSR conductor (86 MVA rating, non-conductor limited)   | AEP (100%)              |
| b2882.2                            | Replace existing Peakland S.S with new 3 way switch phase over phase structure   | AEP (100%)              |
| b2883                              | Rebuild the Craneco – Pardee – Three Forks – Skin Fork 46 kV line section (approximately 7.2 miles) utilizing 795 26/7 ACSR conductor (108 MVA rating)   | AEP (100%)              |
| b2884                              | Install a second transformer at Nagel station, comprised of 3 single phase 250 MVA 500/138 kV transformers. Presently, TVA operates their end of the Boone Dam – Holston 138 kV interconnection as normally open preemptively for the loss of the existing Nagel | AEP (100%)              |
| b2885                              | New delivery point for City of Jackson   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2885.1                            | Install a new Ironman Switch to serve a new delivery point requested by the City of Jackson for a load increase request   | AEP (100%)              |
| b2885.2                            | Install a new 138/69 kV station (Rhodes) to serve as a third source to the area to help relieve overloads caused by the customer load increase                      | AEP (100%)              |
| b2885.3                            | Replace Coalton Switch with a new three breaker ring bus (Heppner)  | AEP (100%)              |
| b2886                              | Install 90 MVA 138/69 kV transformer, new transformer high and low side 3000 A 40 kA CBs, and a 138 kV 40 kA bus tie breaker at West End Fostoria                   | AEP (100%)              |
| b2887                              | Add 2-138 kV CB's and relocate 2-138 kV circuit exits to different bays at Morse Road. Eliminate 3 terminal line by terminating Genoa - Morse circuit at Morse Road | AEP (100%)              |
| b2888                              | Retire Poston substation. Install new Lemaster substation   | AEP (100%)              |
| b2888.1                            | Remove and retire the Poston 138 kV station   | AEP (100%)              |
| b2888.2                            | Install a new greenfield station, Lemaster 138 kV Station, in the clear   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2888.3                            | Relocate the Trimble 69 kV AEP Ohio radial delivery point to 138 kV, to be served off of the Poston – Strouds Run – Crooksville 138 kV circuit via a new three-way switch. Retire the Poston - Trimble 69 kV line  | AEP (100%)              |
| b2889                              | Expand Cliffview station   | AEP (100%)              |
| b2889.1                            | Cliffview Station: Establish 138 kV bus. Install two 138/69 kV XFRs (130 MVA), six 138 kV CBs (40 kA 3000 A) and four 69 kV CBs (40 kA 3000 A)   | AEP (100%)              |
| b2889.2                            | Byllesby – Wythe 69 kV: Retire all 13.77 miles (1/0 CU) of this circuit (~4 miles currently in national forest)  | AEP (100%)              |
| b2889.3                            | Galax – Wythe 69 kV: Retire 13.53 miles (1/0 CU section) of line from Lee Highway down to Byllesby. This section is currently double circuited with Byllesby – Wythe 69 kV. Terminate the southern 3/0 ACSR section into the newly opened position at Byllesby | AEP (100%)              |
| b2889.4                            | Cliffview Line: Tap the existing Pipers Gap – Jubal Early 138 kV line section. Construct double circuit in/out (~2 miles) to newly established 138 kV bus, utilizing 795 26/7 ACSR conductor   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2890.1                            | Rebuild 23.55 miles of the East Cambridge – Smyrna 34.5 kV circuit with 795 ACSR conductor (128 MVA rating) and convert to 69 kV  | AEP (100%)              |
| b2890.2                            | East Cambridge: Install a 2000 A 69 kV 40 kA circuit breaker for the East Cambridge – Smyrna 69 kV circuit  | AEP (100%)              |
| b2890.3                            | Old Washington: Install 69 kV 2000 A two way phase over phase switch  | AEP (100%)              |
| b2890.4                            | Install 69 kV 2000 A two way phase over phase switch  | AEP (100%)              |
| b2891                              | Rebuild the Midland Switch to East Findlay 34.5 kV line (3.31 miles) with 795 ACSR (63 MVA rating) to match other conductor in the area   | AEP (100%)              |
| b2892                              | Install new 138/12 kV transformer with high side circuit switcher at Leon and a new 138 kV line exit towards Ripley. Establish 138 kV at the Ripley station with a new 138/69 kV 130 MVA transformer and move the distribution load to 138 kV service | AEP (100%)              |
| b2936.1                            | Rebuild approximately 6.7 miles of 69 kV line between Mottville and Pigeon River using 795 ACSR conductor (129 MVA rating). New construction will be designed to 138 kV standards but operated at 69 kV   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2936.2                            | Pigeon River Station: Replace existing MOAB Sw. 'W' with a new 69 kV 3000 A 40 kA breaker, and upgrade existing relays towards HMD station. Replace CB H with a 3000 A 40 kA breaker | AEP (100%)              |
| b2937                              | Replace the existing 636 ACSR 138 kV bus at Fletchers Ridge with a larger 954 ACSR conductor   | AEP (100%)              |
| b2938                              | Perform a sag mitigations on the Broadford – Wolf Hills 138 kV circuit to allow the line to operate to a higher maximum temperature  | AEP (100%)              |
| b2958.1                            | Cut George Washington – Tidd 138 kV circuit into Sand Hill and reconfigure Brues & Warton Hill line entrances  | AEP (100%)              |
| b2958.2                            | Add 2 138 kV 3000 A 40 kA breakers, disconnect switches, and update relaying at Sand Hill station  | AEP (100%)              |
| b2968                              | Upgrade existing 345 kV terminal equipment at Tanner Creek station   | AEP (100%)              |
| b2969                              | Replace terminal equipment on Maddox Creek - East Lima 345 kV circuit  | AEP (100%)              |
| b2976                              | Upgrade terminal equipment at Tanners Creek 345 kV station. Upgrade 345 kV bus and risers at Tanners Creek for the Dearborn circuit  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2988                              | Replace the Twin Branch 345 kV breaker “JM” with 63 kA breaker and associated substation works including switches, bus leads, control cable and new DICM | AEP (100%)              |
| b2993                              | Rebuild the Torrey – South Gambrinus Switch – Gambrinus Road 69 kV line section (1.3 miles) with 1033 ACSR ‘Curlew’ conductor and steel poles            | AEP (100%)              |
| b3000                              | Replace South Canton 138 kV breaker ‘N’ with an 80 kA breaker  | AEP (100%)              |
| b3001                              | Replace South Canton 138 kV breaker ‘N1’ with an 80 kA breaker   | AEP (100%)              |
| b3002                              | Replace South Canton 138 kV breaker ‘N2’ with an 80 kA breaker   | AEP (100%)              |
| b3036                              | Rebuild 15.6 miles of Haviland - North Delphos 138 kV line   | AEP (100%)              |
| b3037                              | Upgrades at the Natrium substation   | AEP (100%)              |
| b3038                              | Reconductor the Capitol Hill – Coco 138 kV line section  | AEP (100%)              |
| b3039                              | Line swaps at Muskingum 138 kV station   | AEP (100%)              |
| b3040.1                            | Rebuild Ravenswood – Racine tap 69 kV line section (~15 miles) to 69 kV standards, utilizing 795 26/7 ACSR conductor                                     | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3040.2                            | Rebuild existing Ripley – Ravenswood 69 kV circuit (~9 miles) to 69 kV standards, utilizing 795 26/7 ACSR conductor                              | AEP (100%)              |
| b3040.3                            | Install new 3-way phase over phase switch at Sarah Lane station to replace the retired switch at Cottageville                                    | AEP (100%)              |
| b3040.4                            | Install new 138/12 kV 20 MVA transformer at Polymer station to transfer load from Mill Run station to help address overload on the 69 kV network | AEP (100%)              |
| b3040.5                            | Retire Mill Run station  | AEP (100%)              |
| b3040.6                            | Install 28.8 MVAR cap bank at South Buffalo station  | AEP (100%)              |
| b3051.2                            | Adjust CT tap ratio at Ronceverte 138 kV   | AEP (100%)              |
| b3085                              | Reconductor Kammer – George Washington 138 kV line (approx. 0.08 mile). Replace the wave trap at Kammer 138 kV                                   | AEP (100%)              |
| b3086.1                            | Rebuild New Liberty – Findlay 34 kV line Str’s 1–37 (1.5 miles), utilizing 795 26/7 ACSR conductor   | AEP (100%)              |
| b3086.2                            | Rebuild New Liberty – North Baltimore 34 kV line Str’s 1-11 (0.5 mile), utilizing 795 26/7 ACSR conductor  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3086.3                            | Rebuild West Melrose – Whirlpool 34 kV line Str’s 55–80 (1 mile), utilizing 795 26/7 ACSR conductor   | AEP (100%)              |
| b3086.4                            | North Findlay station: Install a 138 kV 3000A 63kA line breaker and low side 34.5 kV 2000A 40 kA breaker, high side 138 kV circuit switcher on T1 | AEP (100%)              |
| b3086.5                            | Ebersole station: Install second 90 MVA 138/69/34 kV transformer. Install two low side (69 kV) 2000A 40 kA breakers for T1 and T2                 | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3095                              | Rebuild Lakin – Racine Tap 69 kV line section (9.2 miles) to 69 kV standards, utilizing 795 26/7 ACSR conductor  | AEP (100%)              |
| b3099                              | Install a 138 kV 3000A 40 kA circuit switcher on the high side of the existing 138/34.5 kV transformer No.5 at Holston station   | AEP (100%)              |
| b3100                              | Replace the 138 kV MOAB switcher “YY” with a new 138 kV circuit switcher on the high side of Chemical transformer No.6   | AEP (100%)              |
| b3101                              | Rebuild the 1/0 Cu. conductor sections (approx. 1.5 miles) of the Fort Robinson – Moccasin Gap 69 kV line section (approx. 5 miles) utilizing 556 ACSR conductor and upgrade existing relay trip limit (WN/WE: 63 MVA, line limited by remaining conductor sections) | AEP (100%)              |
| b3102                              | Replace existing 50 MVA 138/69 kV transformers #1 and #2 (both 1957 vintage) at Fremont station with new 130 MVA 138/69 kV transformers  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3103.1                            | Install a 138/69 kV transformer at Royerton station. Install a 69 kV bus with one 69 kV breaker toward Bosman station. Rebuild the 138 kV portion into a ring bus configuration built for future breaker and a half with four 138 kV breakers  | AEP (100%)              |
| b3103.2                            | Rebuild the Bosman/Strawboard station in the clear across the road to move it out of the flood plain and bring it up to 69 kV standards  | AEP (100%)              |
| b3103.3                            | Retire 138 kV breaker L at Delaware station and re-purpose 138 kV breaker M for the Jay line   | AEP (100%)              |
| b3103.4                            | Retire all 34.5 kV equipment at Hartford City station. Re-purpose breaker M for the Bosman line 69 kV exit   | AEP (100%)              |
| b3103.5                            | Rebuild the 138 kV portion of Jay station as a 6 breaker, breaker and a half station re-using the existing breakers "A", "B", and "G." Rebuild the 69 kV portion of this station as a 6 breaker ring bus re-using the 2 existing 69 kV breakers. Install a new 138/69 kV transformer | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3103.6                            | Rebuild the 69 kV Hartford City – Armstrong Cork line but instead of terminating it into Armstrong Cork, terminate it into Jay station   | AEP (100%)              |
| b3103.7                            | Build a new 69 kV line from Armstrong Cork – Jay station   | AEP (100%)              |
| b3103.8                            | Rebuild the 34.5 kV Delaware – Bosman line as the 69 kV Royerton – Strawboard line. Retire the line section from Royerton to Delaware stations   | AEP (100%)              |
| b3104                              | Perform a sag study on the Polaris – Westerville 138 kV line (approx. 3.6 miles) to increase the summer emergency rating to 310 MVA  | AEP (100%)              |
| b3105                              | Rebuild the Delaware – Hyatt 138 kV line (approx. 4.3 miles) along with replacing conductors at both Hyatt and Delaware substations  | AEP (100%)              |
| b3106                              | Perform a sag study (6.8 miles of line) to increase the SE rating to 310 MVA. Note that results from the sag study could cover a wide range of outcomes, from no work required to a complete rebuild | AEP (100%)              |
| b3109                              | Rebuild 5.2 miles Bethel – Sawmill 138 kV line including ADSS  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3112                              | Construct a single circuit 138 kV line (approx. 3.5 miles) from Amlin to Dublin using 1033 ACSR Curlew (296 MVA SN), convert Dublin station into a ring configuration, and re-terminating the Britton UG cable to Dublin station | AEP (100%)              |
| b3116                              | Replace existing Mullens 138/46 kV 30 MVA transformer No.4 and associated protective equipment with a new 138/46 kV 90 MVA transformer and associated protective equipment   | AEP (100%)              |
| b3119.1                            | Rebuild the Jay – Pennville 138 kV line as double circuit 138/69 kV. Build a new 9.8 mile single circuit 69 kV line from near Pennville station to North Portland station  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3119.2                            | Install three (3) 69 kV breakers to create the “U” string and add a low side breaker on the Jay transformer 2   | AEP (100%)              |
| b3119.3                            | Install two (2) 69 kV breakers at North Portland station to complete the ring and allow for the new line  | AEP (100%)              |
| b3129                              | At Conesville 138 kV station: Remove line leads to generating units, transfer plant AC service to existing station service feeds in Conesville 345/138 kV yard, and separate and reconfigure protection schemes | AEP (100%)              |
| b3131                              | At East Lima and Haviland 138 kV stations, replace line relays and wavetrap on the East Lima – Haviland 138 kV facility   | AEP (100%)              |
| b3131.1                            | Rebuild approximately 12.3 miles of remaining Lark conductor on the double circuit line between Haviland and East Lima with 1033 54/7 ACSR conductor  | AEP (100%)              |
| b3132                              | Rebuild 3.11 miles of the LaPorte Junction – New Buffalo 69 kV line with 795 ACSR   | AEP (100%)              |
| b3139                              | Rebuild the Garden Creek – Whetstone 69 kV line (approx. 4 miles)   | AEP (100%)              |
| b3140                              | Rebuild the Whetstone – Knox Creek 69 kV line (approx. 3.1 miles)   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3141                              | Rebuild the Knox Creek – Coal Creek 69 kV line (approx. 2.9 miles)   | AEP (100%)              |
| b3148.1                            | Rebuild the 46 kV Bradley – Scarbro line to 96 kV standards using 795 ACSR to achieve a minimum rate of 120 MVA. Rebuild the new line adjacent to the existing one leaving the old line in service until the work is completed       | AEP (100%)              |
| b3148.2                            | Bradley remote end station work, replace 46 kV bus, install new 12 MVAR capacitor bank   | AEP (100%)              |
| b3148.3                            | Replace the existing switch at Sun substation with a 2-way SCADA-controlled motor-operated air-breaker switch  | AEP (100%)              |
| b3148.4                            | Remote end work and associated equipment at Scarbro station  | AEP (100%)              |
| b3148.5                            | Retire Mt. Hope station and transfer load to existing Sun station  | AEP (100%)              |
| b3149                              | Rebuild the 2.3 mile Decatur – South Decatur 69 kV line using 556 ACSR   | AEP (100%)              |
| b3150                              | Rebuild Ferguson 69/12 kV station in the clear as the 138/12 kV Bear station and connect it to an approx. 1 mile double circuit 138 kV extension from the Aviation – Ellison Road 138 kV line to remove the load from the 69 kV line | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3151.1                            | Rebuild the 30 mile Gateway – Wallen 34.5 kV circuit as the 27 mile Gateway – Wallen 69 kV line   | AEP (100%)              |
| b3151.2                            | Retire approx. 3 miles of the Columbia – Whitley 34.5 kV line   | AEP (100%)              |
| b3151.3                            | At Gateway station, remove all 34.5 kV equipment and install one (1) 69 kV circuit breaker for the new Whitley line entrance  | AEP (100%)              |
| b3151.4                            | Rebuild Whitley as a 69 kV station with two (2) lines and one (1) bus tie circuit breaker   | AEP (100%)              |
| b3151.5                            | Replace the Union 34.5 kV switch with a 69 kV switch structure  | AEP (100%)              |
| b3151.6                            | Replace the Eel River 34.5 kV switch with a 69 kV switch structure  | AEP (100%)              |
| b3151.7                            | Install a 69 kV Bobay switch at Woodland station  | AEP (100%)              |
| b3151.8                            | Replace the Carroll and Churubusco 34.5 kV stations with the 69 kV Snapper station. Snapper station will have two (2) line circuit breakers, one (1) bus tie circuit breaker and a 14.4 MVAR cap bank | AEP (100%)              |
| b3151.9                            | Remove 34.5 kV circuit breaker “AD” at Wallen station   | AEP (100%)              |
| b3151.10                           | Rebuild the 2.5 miles of the Columbia – Gateway 69 kV line  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3151.11                           | Rebuild Columbia station in the clear as a 138/69 kV station with two (2) 138/69 kV transformers and 4-breaker ring buses on the high and low side. Station will reuse 69 kV breakers “J” & “K” and 138 kV breaker “D” | AEP (100%)              |
| b3151.12                           | Rebuild the 13 miles of the Columbia – Richland 69 kV line   | AEP (100%)              |
| b3151.13                           | Rebuild the 0.5 mile Whitley – Columbia City No.1 line as 69 kV  | AEP (100%)              |
| b3151.14                           | Rebuild the 0.5 mile Whitley – Columbia City No.2 line as 69 kV  | AEP (100%)              |
| b3151.15                           | Rebuild the 0.6 mile double circuit section of the Rob Park – South Hicksville / Rob Park – Diebold Road as 69 kV  | AEP (100%)              |
| b3160.1                            | Construct an approx. 2.4 miles double circuit 138 kV extension using 1033 ACSR (Aluminum Conductor Steel Reinforced) to connect Lake Head to the 138 kV network  | AEP (100%)              |
| b3160.2                            | Retire the approx.2.5 miles 34.5 kV Niles – Simplicity Tap line  | AEP (100%)              |
| b3160.3                            | Retire the approx.4.6 miles Lakehead 69 kV Tap   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s) |
|------------------------------------|---|--|-------------------------|
| b3160.4                            | Build new 138/69 kV drop down station to feed Lakehead with a 138 kV breaker, 138 kV switcher, 138/69 kV transformer and a 138 kV Motor-Operated Air Break                          |  | AEP (100%)              |
| b3160.5                            | Rebuild the approx. 1.2 miles Buchanan South 69 kV Radial Tap using 795 ACSR (Aluminum Conductor Steel Reinforced)  |  | AEP (100%)              |
| b3160.6                            | Rebuild the approx. 8.4 miles 69 kV Pletcher – Buchanan Hydro line as the approx. 9 miles Pletcher – Buchanan South 69 kV line using 795 ACSR (Aluminum Conductor Steel Reinforced) |  | AEP (100%)              |
| b3160.7                            | Install a PoP (Point-of-Presence) switch at Buchanan South station with 2 line MOABs (Motor-Operated Air Break)   |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement | Responsible Customer(s) |
|------------------------------------|----------------------------|-------------------------|
| <p>b3208</p>                       |                            | <p>AEP (100%)</p>       |
| <p>b3209</p>                       |                            | <p>AEP (100%)</p>       |
| <p>b3210</p>                       |                            | <p>AEP (100%)</p>       |
| <p>b3220</p>                       |                            | <p>AEP (100%)</p>       |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3243                              | Replace risers at the Bass 34.5 kV station  | AEP (100%)              |
| b3244                              | Rebuild approximately 9 miles of the Robinson Park – Harlan 69 kV line                      | AEP (100%)              |
| b3248                              | Install a low side 69 kV circuit breaker at the Albion 138/69 kV transformer #1             | AEP (100%)              |
| b3249                              | Rebuild the Chatfield – Melmore 138 kV line (approximately 10 miles) to 1033 ACSR conductor | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3253                              | Install a 3000A 40 kA 138 kV breaker on the high side of 138/69 kV transformer #5 at the Millbrook Park station. The transformer and associated bus protection will be upgraded accordingly | AEP (100%)              |
| b3255                              | Upgrade 795 AAC risers at the Sand Hill 138 kV station towards Cricket Switch with 1272 AAC   | AEP (100%)              |
| b3256                              | Upgrade 500 MCM Cu risers at Tidd 138 kV station towards Wheeling Steel; replace with 1272 AAC conductor  | AEP (100%)              |
| b3257                              | Replace two spans of 336.4 26/7 ACSR on the Twin Branch – AM General #2 34.5 kV circuit   | AEP (100%)              |
| b3258                              | Install a 3000A 63 kA 138 kV breaker on the high side of 138/69 kV transformer #2 at Wagenhals station. The transformer and associated bus protection will be upgraded accordingly          | AEP (100%)              |
| b3259                              | At West Millersburg station, replace the 138 kV MOAB on the West Millersburg – Wooster 138 kV line with a 3000A 40 kA breaker   | AEP (100%)              |
| b3261                              | Upgrade circuit breaker “R1” at Tanners Creek 345 kV. Install Transient Recovery Voltage capacitor to increase the rating from 50 kA to 63 kA   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3269                              | At West New Philadelphia station, add a high side 138 kV breaker on the 138/69 kV Transformer #2 along with a 138 kV breaker on the line towards Newcomerstown   | AEP (100%)              |
| b3270                              | Install 1.7 miles of 795 ACSR 138 kV conductor along the other side of Dragoon Tap 138 kV line, which is currently double circuit tower with one position open. Additionally, install a second 138/34.5 kV transformer at Dragoon, install a high side circuit switcher on the current transformer at the Dragoon Station, and install two (2) 138 kV line breakers on the Dragoon – Jackson 138 kV and Dragoon – Twin Branch 138 kV lines | AEP (100%)              |
| b3270.1                            | Replace Dragoon 34.5 kV breakers “B”, “C”, and “D” with 40 kA breakers   | AEP (100%)              |
| b3271                              | Install a 138 kV circuit breaker at Fremont station on the line towards Fremont Center and install a 9.6 MVAR 69 kV capacitor bank at Bloom Road station   | AEP (100%)              |
| b3272                              | Install two 138 kV circuit switchers on the high side of 138/34.5 kV Transformers #1 and #2 at Rockhill station  | AEP (100%)              |

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| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s) |
|--|----------------------------|-------------------------|
| b3273.1<br>Rebuild and convert the existing 17.6 miles East Leipsic – New Liberty 34.5 kV circuit to 138 kV using 795 ACSR   |                            | AEP (100%)              |
| b3273.2<br>Convert the existing 34.5 kV equipment to 138 kV and expand the existing McComb station to the north and east to allow for new equipment to be installed. Install two (2) new 138 kV box bays to allow for line positions and two (2) new 138/12 kV transformers  |                            | AEP (100%)              |
| b3273.3<br>Expand the existing East Leipsic 138 kV station to the north to allow for another 138 kV line exit to be installed. The new line exit will involve installing a new 138 kV circuit breaker, disconnect switches and the addition of a new dead end structure along with the extension of the existing 138 kV bus work |                            | AEP (100%)              |
| b3273.4<br>Add one (1) 138 kV circuit breaker and disconnect switches in order to add an additional line position at New Liberty 138 kV station. Install line relaying potential devices and retire the 34.5 kV breaker ‘F’  |                            | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3274                              | Rebuild approximately 8.9 miles of 69 kV line between Newcomerstown and Salt Fork Switch with 556 ACSR conductor  | AEP (100%)              |
| b3275.1                            | Rebuild the Kammer Station – Cresaps Switch 69 kV line, approximately 0.5 mile  | AEP (100%)              |
| b3275.2                            | Rebuild the Cresaps Switch – McElroy Station 69 kV, approximately 0.67 mile   | AEP (100%)              |
| b3275.3                            | Replace a single span of 4/0 ACSR from Moundsville - Natrium structure 93L to Carbon Tap switch 69 kV located between the Colombia Carbon and Conner Run stations. Remainder of the line is 336 ACSR                  | AEP (100%)              |
| b3275.4                            | Rebuild from Colombia Carbon to Columbia Carbon Tap structure 93N 69 kV, approximately 0.72 mile. The remainder of the line between Colombia Carbon Tap structure 93N and Natrium station is 336 ACSR and will remain | AEP (100%)              |
| b3275.5                            | Replace the Cresaps 69 kV 3-Way Phase-Over-Phase switch and structure with a new 1200A 3-Way switch and steel pole  | AEP (100%)              |
| b3275.6                            | Replace 477 MCM Alum bus and risers at McElroy 69 kV station  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3275.7                            | Replace Natrium 138 kV bus existing between CB-BT1 and along the 138 kV Main Bus #1 dropping to CBH1 from the 500 MCM conductors to a 1272 KCM AAC conductor. Replace the dead end clamp and strain insulators | AEP (100%)              |
| b3276.1                            | Rebuild the 2/0 Copper section of the Lancaster – South Lancaster 69 kV line, approximately 2.9 miles of the 3.2 miles total length with 556 ACSR conductor. The remaining section has a 336 ACSR conductor    | AEP (100%)              |
| b3276.2                            | Rebuild the 1/0 Copper section of the line between Lancaster Junction and Ralston station 69 kV, approximately 2.3 miles of the 3.1 miles total length   | AEP (100%)              |
| b3276.3                            | Rebuild the 2/0 Copper portion of the line between East Lancaster Tap and Lancaster 69 kV, approximately 0.81 mile   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b3278.1                            | Replace H.S. MOAB switches on the high side of the 138/69/34.5 kV transformer T1 with a H.S. circuit switcher at Saltville station   |  | AEP (100%)              |
| b3278.2                            | Replace existing 138/69/34.5 kV transformer T2 with a new 130 MVA 138/69/13 kV transformer at Meadowview station   |  | AEP (100%)              |
| b3279                              | Install a new 138 kV, 21.6 MVAR cap bank and circuit switcher at Apple Grove station   |  | AEP (100%)              |
| b3280                              | Rebuild the existing Cabin Creek – Kelly Creek 46 kV line (to Structure 366-44), approximately 4.4 miles. This section is double circuit with the existing Cabin Creek – London 46 kV line so a double circuit rebuild would be required |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s) |
|------------------------------------|---|--|-------------------------|
| b3282.1                            | Install a second 138 kV circuit utilizing 795 ACSR conductor on the open position of the existing double circuit towers from East Huntington – North Proctorville. Remove the existing 34.5 kV line from East Huntington – North Chesapeake and rebuild this section to 138 kV served from a new PoP switch off the new East Huntington – North Proctorville 138 kV #2 line |  | AEP (100%)              |
| b3282.2                            | Install a 138 kV 40 kA circuit breaker at North Proctorville station  |  | AEP (100%)              |
| b3282.3                            | Install a 138 kV 40 kA circuit breaker at East Huntington station   |  | AEP (100%)              |
| b3282.4                            | Convert the existing 34/12 kV North Chesapeake to a 138/12 kV station   |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3284                              | Rebuild approximately 5.44 miles of 69 kV line from Lock Lane to Point Pleasant   | AEP (100%)              |
| b3285                              | Replace the Meigs 69 kV 4/0 Cu station riser towards Gavin and rebuild the section of the Meigs – Hemlock 69 kV circuit from Meigs to approximately Structure #40 (about 4 miles) replacing the line conductor 4/0 ACSR with the line conductor size 556.5 ACSR | AEP (100%)              |
| b3286                              | Reconductor the first 3 spans from Merrimac station to Structure 464-3 of 3/0 ACSR conductor utilizing 336 ACSR on the existing Merrimac – Midway 69 kV circuit   | AEP (100%)              |
| b3287                              | Upgrade 69 kV risers at Moundsville station towards George Washington   | AEP (100%)              |
| b3289.1                            | Install high-side circuit switcher on 138/69/12 kV T5 at Roanoke station  | AEP (100%)              |
| b3289.2                            | Install high-side circuit switcher on 138/69/34.5 kV T1 at Huntington Court station   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3290.1                            | Build 9.4 miles of single circuit 69 kV line from Roselms to near East Ottoville 69 kV switch   | AEP (100%)              |
| b3290.2                            | Rebuild 7.5 miles of double circuit 69 kV line between East Ottoville switch and Kalida station (combining with the new Roselms to Kalida 69 kV circuit)          | AEP (100%)              |
| b3290.3                            | At Roselms switch, install a new three way 69 kV, 1200 A phase-over-phase switch, with sectionalizing capability  | AEP (100%)              |
| b3290.4                            | At Kalida 69 kV station, terminate the new line from Roselms switch. Move the CS XT2 from high side of T2 to the high side of T1. Remove existing T2 transformer  | AEP (100%)              |
| b3291                              | Replace the Russ St. 34.5 kV switch   | AEP (100%)              |
| b3292                              | Replace existing 69 kV capacitor bank at Stuart station with a 17.2 MVAR capacitor bank   | AEP (100%)              |
| b3293                              | Replace 2/0 Cu entrance span conductor on the South Upper Sandusky 69 kV line and 4/0 Cu Risers/Bus conductors on the Forest line at Upper Sandusky 69 kV station | AEP (100%)              |
| b3294                              | Replace existing 69 kV disconnect switches for circuit breaker "C" at Walnut Avenue station   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3295                              | Grundy 34.5 kV: Install a 34.5 kV 9.6 MVAR cap bank  | AEP (100%)              |
| b3296                              | Rebuild the overloaded portion of the Concord – Whitaker 34.5 kV line (1.13 miles). Rebuild is double circuit and will utilize 795 ACSR conductor                        | AEP (100%)              |
| b3297.1                            | Rebuild 4.23 miles of 69 kV line between Sawmill and Lazelle station, using 795 ACSR 26/7 conductor  | AEP (100%)              |
| b3297.2                            | Rebuild 1.94 miles of 69 kV line between Westerville and Genoa stations, using 795 ACSR 26/7 conductor   | AEP (100%)              |
| b3297.3                            | Replace risers and switchers at Lazelle, Westerville, and Genoa 69 kV stations. Upgrade associated relaying accordingly  | AEP (100%)              |
| b3298                              | Rebuild 0.8 mile of double circuit 69 kV line between South Toronto and West Toronto. Replace 219 ACSR with 556 ACSR   | AEP (100%)              |
| b3298.1                            | Replace the 69 kV breaker D at South Toronto station with 40 kA breaker  | AEP (100%)              |
| b3299                              | Rebuild 0.2 mile of the West End Fostoria - Lumberjack Switch 69 kV line with 556 ACSR (Dove) conductors. Replace jumpers on West End Fostoria line at Lumberjack Switch | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s) |
|------------------------------------|---|--|-------------------------|
| b3308                              | Reconductor and rebuild 1 span of T-line on the Fort Steuben – Sunset Blvd 69 kV branch with 556 ACSR   |  | AEP (100%)              |
| b3309                              | Rebuild 1.75 miles of the Greenlawn – East Tiffin line section of the Carothers – Greenlawn 69 kV circuit containing 133 ACSR conductor with 556 ACSR conductor. Upgrade relaying as required |  | AEP (100%)              |
| b3310.1                            | Rebuild 10.5 miles of the Howard – Willard 69 kV line utilizing 556 ACSR conductor  |  | AEP (100%)              |
| b3310.2                            | Upgrade relaying at Howard 69 kV station  |  | AEP (100%)              |
| b3310.3                            | Upgrade relaying at Willard 69 kV station   |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3312                              | Rebuild approximately 4 miles of existing 69 kV line between West Mount Vernon and Mount Vernon stations. Replace the existing 138/69 kV transformer at West Mount Vernon with a larger 90 MVA unit along with existing 69 kV breaker 'C' | AEP (100%)              |
| b3313                              | Add 40 kA circuit breakers on the low and high side of the East Lima 138/69 kV transformer  | AEP (100%)              |
| b3314.1                            | Install a new 138/69 kV 130 MVA transformer and associated protection at Elliot station   | AEP (100%)              |
| b3314.2                            | Perform work at Strouds Run station to retire 138/69/13 kV 33.6 MVA Transformer #1 and install a dedicated 138/13 KV distribution transformer   | AEP (100%)              |
| b3315                              | Upgrade relaying on Mark Center – South Hicksville 69 kV line and replace Mark Center cap bank with a 7.7 MVAR unit   | AEP (100%)              |
| b3320                              | Replace the CT at Don Marquis 345 kV station  | AEP (100%)              |
| b3336                              | Rebuild 6 miles Benton Harbor - Riverside 138 kV double circuit extension   | AEP (100%)              |
| b3337                              | Replace the one (1) Hyatt 138 kV breaker “AB1” (101N) with 3000 A, 63 kA interrupting breaker   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3338                              | Replace the two (2) Kenny 138 kV breakers, "102" (SC-3) and "106" (SC-4), each with a 3000 A, 63 kA interrupting breaker  | AEP (100%)              |
| b3339                              | Replace the one (1) Canal 138 kV breaker "3" with 3000 A, 63 kA breaker   | AEP (100%)              |
| b3342                              | Replace the 2156 ACSR and 2874 ACSR bus and risers with 2-bundled 2156 ACSR at Muskingum River 345 kV station to address loading issues on Muskingum - Waterford 345 kV line  | AEP (100%)              |
| b3343                              | Rebuild approximately 0.3 miles of the overloaded 69 kV line between Albion - Philips Switch and Philips Switch - Brimfield Switch with 556 ACSR conductor  | AEP (100%)              |
| b3344.1                            | Install two (2) 138 kV circuit breakers in the M and N strings in the breaker-and-a-half configuration in West Kingsport station 138 kV yard to allow the Clinch River - Moreland Dr. 138 kV to cut in the West Kingsport station | AEP (100%)              |
| b3344.2                            | Upgrade remote end relaying at Riverport 138 kV station due to the line cut in at West Kingsport station  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3345.1                            | Rebuild approximately 4.2 miles of overloaded sections of the 69 kV line between Salt Fork switch and Leatherwood switch with 556 ACSR   | AEP (100%)              |
| b3345.2                            | Update relay settings at Broom Road station  | AEP (100%)              |
| b3346.1                            | Rebuild approximately 3.5 miles of overloaded 69 kV line between North Delphos – East Delphos – Elida Road switch station. This includes approximately 1.1 miles of double circuit line that makes up a portion of the North Delphos – South Delphos 69 kV line and the North Delphos – East Delphos 69 kV line. Approximately 2.4 miles of single circuit line will also be rebuilt between the double circuit portion to East Delphos station and from East Delphos to Elida Road switch station | AEP (100%)              |
| b3346.2                            | Replace the line entrance spans at South Delphos station to eliminate the overloaded 4/0 Copper and 4/0 ACSR conductor   | AEP (100%)              |
| b3347.1                            | Rebuild approximately 20 miles of 69 kV line between Bancroft and Milton stations with 556 ACSR conductor  | AEP (100%)              |
| b3347.2                            | Replace the jumpers around Hurrican switch with 556 ACSR   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3347.3                            | Replace the jumpers around Teays switch with 556 ACSR   | AEP (100%)              |
| b3347.4                            | Update relay settings at Winfield station to coordinate with remote ends on line rebuild  | AEP (100%)              |
| b3347.5                            | Update relay settings at Bancroft station to coordinate with remote ends on line rebuild  | AEP (100%)              |
| b3347.6                            | Update relay settings at Milton station to coordinate with remote ends on line rebuild  | AEP (100%)              |
| b3347.7                            | Update relay settings at Putnam Village station to coordinate with remote ends on line rebuild  | AEP (100%)              |
| b3348.1                            | Construct a 138 kV single bus station (Tin Branch) consisting of a 138 kV box bay with a distribution transformer and 12 kV distribution bay. Two 138 kV lines will feed this station (from Logan and Sprigg stations), and distribution will have one 12 kV feed. Install two 138 kV circuit breakers on the line exits. Install 138 kV circuit switcher for the new transformer | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b3348.2 | Construct a new 138/46/12 kV Argyle station to replace Dehue 46 kV station. Install a 138 kV ring bus using a breaker-and-a-half configuration, with an autotransformer with a 46 kV feed and a distribution transformer with a 12 kV distribution bay. Two 138 kV lines will feed this station (from Logan and Wyoming stations). There will also be a 46 kV feed from this station to Becco station. Distribution will have two 12 kV feeds. Retire Dehue 46 kV station in its entirety |  | AEP (100%) |
| b3348.3 | Bring the Logan – Sprigg #2 138 kV circuit in and out of Tin Branch station by constructing approximately 1.75 miles of new overhead double circuit 138 kV line. Double circuit T3 series lattice towers will be used along with 795,000 cm ACSR 26/7 conductor. One shield wire will be conventional 7 #8 ALUMOWELD, and one shield wire will be optical ground wire (OPGW)  |  | AEP (100%) |
| b3348.4 | Logan-Wyoming No. 1 circuit in and out of the proposed Argyle 46 kV station. Double circuit T3 series lattice towers will be used along with 795,000 cm ACSR 26/7 conductor. One shield wire will be conventional 7 #8 ALUMOWELD, and one shield wire will be OPGW  |  | AEP (100%) |
| b3348.5 | Rebuild approximately 10 miles of 46 kV line between Becco and the new Argyle 46 kV substation. Retire approximately 16 miles of 46 kV line between the new Argyle substation and Chauncey station  |  | AEP (100%) |
| b3348.6 | Adjust relay settings due to new line terminations and retirements at Logan, Wyoming, Sprigg, Becco and Chauncey stations   |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b3350.1 | Replace Bellefonte 69 kV breakers C, G, I, Z, AB and JJ in place. The new 69 kV breakers to be rated at 3000 A 40 kA                             |  | AEP (100%) |
| b3350.2 | Upgrade remote end relaying at Point Pleasant, Coalton and South Point 69 kV substations   |  | AEP (100%) |
| b3351   | Replace the 69 kV in-line switches at Monterey 69 kV substation  |  | AEP (100%) |
| b3354   | Replace circuit breakers '42' and '43' at Bexley station with 3000 A, 40 kA 69 kV breakers (operated at 40 kV), slab, control cables and jumpers |  | AEP (100%) |
| b3355   | Replace circuit breakers 'A' and 'B' at South Side Lima station with 1200 A, 25 kA 34.5 kV breakers, slab, control cables and jumpers            |  | AEP (100%) |
| b3356   | Replace circuit breaker 'H' at West End Fostoria station with 3000 A, 40 kA 69 kV breaker, slab, control cables and jumpers                      |  | AEP (100%) |
| b3357   | Replace circuit breakers 'C', 'E,' and 'L' at Natrium station with 3000 A, 40 kA 69 kV breakers, slab, control cables and jumpers                |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |            |
|-------|---|--|------------|
| b3358 | Install a 69 kV 11.5 MVAR capacitor at Biers Run 69 kV station  |  | AEP (100%) |
| b3359 | Rebuild approximately 2.3 miles of the existing North Van Wert Sw. – Van Wert 69 kV line utilizing 556 ACSR conductor   |  | AEP (100%) |
| b3362 | Rebuild approximately 3.1 miles of the overloaded conductor on the existing Oertels Corner – North Portsmouth 69 kV line utilizing 556 ACSR   |  | AEP (100%) |
| b3731 | Replace 40 kV breaker J at McComb 138 kV station with a new 3000A 40 kA breaker   |  | AEP (100%) |
| b3732 | Install a 6 MVAR, 34.5 kV cap bank at Morgan Run station  |  | AEP (100%) |
| b3733 | Rebuild the 1.8 mile 69 kV line between Summerhill and Willow Grove Switch. Replace 4/0 ACSR conductor with 556 ACSR  |  | AEP (100%) |
| b3734 | Install a 7.7 MVAR, 69 kV cap bank at both Otway station and Rosemount station  |  | AEP (100%) |
| b3735 | Terminate the existing Broadford – Wolf Hills #1 138 kV line into Abingdon 138 kV Station. This line currently bypasses the existing Abingdon 138 kV station; Install two new 138 kV circuit breakers on each new line exit towards Broadford and towards Wolf Hills #1 station; Install one new 138 kV circuit breaker on line exit towards South Abingdon station for standard bus sectionalizing |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |   |  |            |
|----------|---|--|------------|
| b3736.1  | Establish 69 kV bus and new 69 kV line Circuit Breaker at Dorton substation   |  | AEP (100%) |
| b3736.2  | At Breaks substation, reuse 72 kV breaker A as the new 69 kV line breaker   |  | AEP (100%) |
| b3736.3  | Rebuild approximately 16.7 miles Dorton – Breaks 46 kV line to 69 kV line   |  | AEP (100%) |
| b3736.4  | Retire approximately 17.2 miles Cedar Creek – Elwood 46 kV line   |  | AEP (100%) |
| b3736.5  | Retire approximately 6.2 miles Henry Clay – Elwood 46 kV line section   |  | AEP (100%) |
| b3736.6  | Retire Henry Clay 46 kV substation and replace with Poor Bottom 69 kV station. Install a new 0.7 mile double circuit extension to Poor Bottom 69 kV station |  | AEP (100%) |
| b3736.7  | Retire Draffin substation and replace with a new substation. Install a new 0.25 mile double circuit extension to New Draffin substation                     |  | AEP (100%) |
| b3736.8  | Remote end work at Jenkins substation   |  | AEP (100%) |
| b3736.9  | Provide transition fiber to Dorton, Breaks, Poor Bottom, Jenkins and New Draffin 69 kV substations  |  | AEP (100%) |
| b3736.10 | Henry Clay switch station retirement  |  | AEP (100%) |
| b3736.11 | Cedar Creek substation work   |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |   |  |            |
|----------|---|--|------------|
| b3736.12 | Breaks substation 46 kV equipment retirement  |  | AEP (100%) |
| b3736.13 | Retire Pike 29 switch station and Rob Fork switch station   |  | AEP (100%) |
| b3736.14 | Serve Pike 29 and Rob Fork substation customers from nearby 34 kV distribution sources                      |  | AEP (100%) |
| b3736.15 | Poor Bottom 69 kV substation install  |  | AEP (100%) |
| b3736.16 | Henry Clay 46 kV substation retirement  |  | AEP (100%) |
| b3736.17 | New Draffin 69 kV substation install  |  | AEP (100%) |
| b3736.18 | Draffin 46 kV substation retirement   |  | AEP (100%) |
| b3763    | Replace the Jug Street 138 kV breakers M, N, BC, BD, BE, BF, D, H, J, L, BG, BH, BJ, BK with 80 KA breakers |  | AEP (100%) |
| b3764    | Replace the Hyatt 138 kV breakers AB1 and AD1 with 63 kA breakers   |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b3766.1 | Hayes – New Westville 138 kV line: Build approximately 0.19 miles of 138 kV line to the Indiana/ Ohio State line to connect to AES’s line portion of the Hayes – New Westville 138 kV line with the conductor size 795 ACSR26/7 Drake. This sub-ID includes the cost of line construction and Right of Way (ROW) |  | AEP (100%) |
| b3766.2 | Hayes – Hodgin 138 kV line: Build approximately 0.05 mile of 138 kV line with the conductor size 795 ACSR26/7 Drake. This sub-ID includes the line construction, ROW, and fiber  |  | AEP (100%) |
| b3766.3 | Hayes 138 kV: Build a new 4-138 kV circuit breaker ring bus. This sub-ID includes the cost of new station construction, property purchase, metering, station fiber and the College Corner – Randolph 138 kV line connection  |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3775.6                            | Perform sag study mitigation work on the Dumont – Stillwell 345 kV line (remove a center-pivot irrigation system from under the line, allowing for the normal and emergency ratings of the line to increase) | <p><b>Reliability Driver:</b><br/>AEP (12.38%) / ComEd (87.62%)</p> <p><b>Market Efficiency Driver:</b><br/>AEC (0.87%) / AEP (24.07%) / APS (3.95%) / ATSI (11.04%) / BGE (4.30%) / Dayton (3.52%) / DEOK (5.35%) / Dominion (20.09%) / DPL (1.73%) / DL (2.11%) / ECP** (0.17%) / EKPC (1.73%) / HTP*** (0.07%) / JCPL (1.98%) / ME (1.63%) / NEPTUNE* (0.43%) / OVEC (0.07%) / PECO (3.59%) / PENELEC (1.68%) / PEPCO (3.91%) / PPL (3.64%) / PSEG (3.93%) / RE (0.14%)</p> |

\*Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3775.7                            | Upgrade the limiting element at Stillwell or Dumont substation to increase the rating of the Stillwell – Dumont 345 kV line to match conductor rating | <p><b>Reliability Driver:</b><br/>AEP (12.38%) / Dayton (87.62%)</p> <p><b>Market Efficiency Driver:</b><br/>AEC (0.87%) / AEP (24.07%) / APS (3.95%) / ATSI (11.04%) / BGE (4.30%) / Dayton (3.52%) / DEOK (5.35%) / Dominion (20.09%) / DPL (1.73%) / DL (2.11%) / ECP** (0.17%) / EKPC (1.73%) / HTP*** (0.07%) / JCPL (1.98%) / ME (1.63%) / NEPTUNE* (0.43%) / OVEC (0.07%) / PECO (3.59%) / PENELEC (1.68%) / PEPCO (3.91%) / PPL (3.64%) / PSEG (3.93%) / RE (0.14%)</p> |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |  |  |  |
|----------|--|--|--|
| b3775.10 | Perform a sag study on the Olive – University Park 345 kV line to increase the operating temperature to 225 F. Remediation work includes two tower replacements on the line. |  | <p><b>Reliability Driver:</b><br/>AEP (100%)</p> <p><b>Market Efficiency Driver:</b><br/>AEC (0.87%) / AEP (24.07%) / APS (3.95%) / ATSI (11.04%) / BGE (4.30%) / Dayton (3.52%) / DEOK (5.35%) / Dominion (20.09%) / DPL (1.73%) / DL (2.11%) / ECP** (0.17%) / EKPC (1.73%) / HTP*** (0.07%) / JCPL (1.98%) / ME (1.63%) / NEPTUNE* (0.43%) / OVEC (0.07%) / PECO (3.59%) / PENELEC (1.68%) / PEPCO (3.91%) / PPL (3.64%) / PSEG (3.93%) / RE (0.14%)</p>                    |
| b3775.11 | Upgrade the limiting element at Stillwell substation to increase the rating of the Stillwell – Dumont 345 kV line to match conductor rating                                  |  | <p><b>Reliability Driver:</b><br/>AEP (12.38%) / ComEd (87.62%)</p> <p><b>Market Efficiency Driver:</b><br/>AEC (0.87%) / AEP (24.07%) / APS (3.95%) / ATSI (11.04%) / BGE (4.30%) / Dayton (3.52%) / DEOK (5.35%) / Dominion (20.09%) / DPL (1.73%) / DL (2.11%) / ECP** (0.17%) / EKPC (1.73%) / HTP*** (0.07%) / JCPL (1.98%) / ME (1.63%) / NEPTUNE* (0.43%) / OVEC (0.07%) / PECO (3.59%) / PENELEC (1.68%) / PEPCO (3.91%) / PPL (3.64%) / PSEG (3.93%) / RE (0.14%)</p> |

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

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PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 17 – American Electric Power Service Corp.

Version 44.0.0  
Effective April 9, 2024  
(Accepted in Docket No. ER24-843-000)

**SCHEDULE 12 – APPENDIX A**

- (17) **American Electric Power Service Corporation on behalf of its affiliate companies: AEP Appalachian Transmission Company, Inc.; AEP Indiana Michigan Transmission Company, Inc.; AEP Ohio Transmission Company, Inc.; AEP West Virginia Transmission Company, Inc.; Appalachian Power Company; Indiana Michigan Power Company; Kingsport Power Company; Ohio Power Company and Wheeling Power Company**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b1570.4                            | Add a 345 kV breaker at Marysville station and a 0.1 mile 345 kV line extension from Marysville to the new 345/69 kV Dayton transformer   | AEP (100%)  |
| b1660.1                            | Cloverdale: install 6-765 kV breakers, incremental work for 2 additional breakers, reconfigure and relocate miscellaneous facilities, establish 500 kV station and 500 kV tie with 765 kV station | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     AEP (0.10%) / BGE (43.26%) / DEOK (0.10%) / EKPC (0.06%) / PEPCO (56.48%)</p> |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b1797.1                            | Reconductor the AEP portion of the Cloverdale - Lexington 500 kV line with 2-1780 ACSS                           | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/> AEP ( 0.28%) / ATSI (0.18%) / BGE (43.01%) / Dayton (0.07%) / DEOK (0.17%) / EKPC (0.10%) / PEPCO (56.19%)</p> |
| b2055                              | Upgrade relay at Brues station   | AEP (100%)   |
| b2122.3                            | Upgrade terminal equipment at Howard on the Howard - Brookside 138 kV line to achieve ratings of 252/291 (SN/SE) | AEP (100%)   |
| b2122.4                            | Perform a sag study on the Howard - Brookside 138 kV line  | AEP (100%)   |
| b2229                              | Install a 300 MVAR reactor at Dequine 345 kV   | AEP (100%)   |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2230                              | Replace existing 150 MVAR reactor at Amos 765 kV substation on Amos - N. Proctorville - Hanging Rock with 300 MVAR reactor          | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     AEP (100%)</p> |
| b2231                              | Install 765 kV reactor breaker at Dumont 765 kV substation on the Dumont - Wilton Center line                                       | AEP (100%)   |
| b2232                              | Install 765 kV reactor breaker at Marysville 765 kV substation on the Marysville - Maliszewski line                                 | AEP (100%)   |
| b2233                              | Change transformer tap settings for the Baker 765/345 kV transformer  | AEP (100%)   |
| b2252                              | Loop the North Muskingum - Crooksville 138 kV line into AEP's Philo 138 kV station which lies approximately 0.4 miles from the line | AEP (100%)   |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2253                              | Install an 86.4 MVAR capacitor bank at Gorsuch 138 kV station in Ohio   | AEP (100%)              |
| b2254                              | Rebuild approximately 4.9 miles of Corner - Degussa 138 kV line in Ohio   | AEP (100%)              |
| b2255                              | Rebuild approximately 2.8 miles of Maliszewski - Polaris 138 kV line in Ohio  | AEP (100%)              |
| b2256                              | Upgrade approximately 36 miles of 138 kV through path facilities between Harrison 138 kV station and Ross 138 kV station in Ohio  | AEP (100%)              |
| b2257                              | Rebuild the Pokagon - Corey 69 kV line as a double circuit 138 kV line with one side at 69 kV and the other side as an express circuit between Pokagon and Corey stations | AEP (100%)              |
| b2258                              | Rebuild 1.41 miles of #2 CU 46 kV line between Tams Mountain - Slab Fork to 138 kV standards. The line will be strung with 1033 ACSR                                      | AEP (100%)              |
| b2259                              | Install a new 138/69 kV transformer at George Washington 138/69 kV substation to provide support to the 69 kV system in the area  | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2286                              | Rebuild 4.7 miles of Muskingum River - Wolf Creek 138 kV line and remove the 138/138 kV transformer at Wolf Creek Station | AEP (100%)              |
| b2287                              | Loop in the Meadow Lake - Olive 345 kV circuit into Reynolds 765/345 kV station   | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2344.1 | Establish a new 138/12 kV station, transfer and consolidate load from its Nicholasville and Marcellus 34.5 kV stations at this new station |  | AEP (100%) |
| b2344.2 | Tap the Hydramatic – Valley 138 kV circuit (~ structure 415), build a new 138 kV line (~3.75 miles) to this new station                    |  | AEP (100%) |
| b2344.3 | From this station, construct a new 138 kV line (~1.95 miles) to REA’s Marcellus station  |  | AEP (100%) |
| b2344.4 | From REA’s Marcellus station construct new 138 kV line (~2.35 miles) to a tap point on Valley – Hydramatic 138 kV ckt (~structure 434)     |  | AEP (100%) |
| b2344.5 | Retire sections of the 138 kV line in between structure 415 and 434 (~ 2.65 miles)   |  | AEP (100%) |
| b2344.6 | Retire AEP’s Marcellus 34.5/12 kV and Nicholasville 34.5/12 kV stations and also the Marcellus – Valley 34.5 kV line                       |  | AEP (100%) |
| b2345.1 | Construct a new 69 kV line from Hartford to Keeler (~8 miles)  |  | AEP (100%) |
| b2345.2 | Rebuild the 34.5 kV lines between Keeler - Sister Lakes and Glenwood tap switch to 69 kV (~12 miles)                                       |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2345.3 | Implement in - out at Keeler and Sister Lakes 34.5 kV stations  |  | AEP (100%) |
| b2345.4 | Retire Glenwood tap switch and construct a new Rothadew station. These new lines will continue to operate at 34.5 kV  |  | AEP (100%) |
| b2346   | Perform a sag study for Howard - North Bellville - Millwood 138 kV line including terminal equipment upgrades   |  | AEP (100%) |
| b2347   | Replace the North Delphos 600A switch. Rebuild approximately 18.7 miles of 138 kV line North Delphos - S073. Reconductor the line and replace the existing tower structures |  | AEP (100%) |
| b2348   | Construct a new 138 kV line from Richlands Station to intersect with the Hales Branch - Grassy Creek 138 kV circuit   |  | AEP (100%) |
| b2374   | Change the existing CT ratios of the existing equipment along Bearskin - Smith Mountain 138kV circuit   |  | AEP (100%) |
| b2375   | Change the existing CT ratios of the existing equipment along East Danville-Banister 138kV circuit  |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement                  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2376                              | Replace the Turner 138 kV breaker 'D'       | AEP (100%)              |
| b2377                              | Replace the North Newark 138 kV breaker 'P' | AEP (100%)              |
| b2378                              | Replace the Sporn 345 kV breaker 'DD'       | AEP (100%)              |
| b2379                              | Replace the Sporn 345 kV breaker 'DD2'      | AEP (100%)              |
| b2380                              | Replace the Muskingum 345 kV breaker 'SE'   | AEP (100%)              |
| b2381                              | Replace the East Lima 138 kV breaker 'E1'   | AEP (100%)              |
| b2382                              | Replace the Delco 138 kV breaker 'R'        | AEP (100%)              |
| b2383                              | Replace the Sporn 345 kV breaker 'AA2'      | AEP (100%)              |
| b2384                              | Replace the Sporn 345 kV breaker 'CC'       | AEP (100%)              |
| b2385                              | Replace the Sporn 345 kV breaker 'CC2'      | AEP (100%)              |
| b2386                              | Replace the Astor 138 kV breaker '102'      | AEP (100%)              |
| b2387                              | Replace the Muskingum 345 kV breaker 'SH'   | AEP (100%)              |
| b2388                              | Replace the Muskingum 345 kV breaker 'SI'   | AEP (100%)              |
| b2389                              | Replace the Hyatt 138 kV breaker '105N'     | AEP (100%)              |
| b2390                              | Replace the Muskingum 345 kV breaker 'SG'   | AEP (100%)              |
| b2391                              | Replace the Hyatt 138 kV breaker '101C'     | AEP (100%)              |
| b2392                              | Replace the Hyatt 138 kV breaker '104N'     | AEP (100%)              |
| b2393                              | Replace the Hyatt 138 kV breaker '104S'     | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2394                              | Replace the Sporn 345 kV breaker 'CC1'  | AEP (100%)   |
| b2409                              | Install two 56.4 MVAR capacitor banks at the Melmore 138 kV station in Ohio   | AEP (100%)   |
| b2410                              | Convert Hogan Mullin 34.5 kV line to 138 kV, establish 138 kV line between Jones Creek and Strawton, rebuild existing Mullin Elwood 34.5 kV and terminate line into Strawton station, retire Mullin station | AEP (100%)   |
| b2411                              | Rebuild the 3/0 ACSR portion of the Hadley - Kroemer Tap 69 kV line utilizing 795 ACSR conductor  | AEP (100%)   |
| b2423                              | Install a 300 MVAR shunt reactor at AEP's Wyoming 765 kV station  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/> AEP (100%)</p> |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2444   | Willow - Eureka 138 kV line: Reconductor 0.26 mile of 4/0 CU with 336 ACSS   |  | AEP (100%) |
| b2445   | Complete a sag study of Tidd - Mahans Lake 138 kV line   |  | AEP (100%) |
| b2449   | Rebuild the 7-mile 345 kV line between Meadow Lake and Reynolds 345 kV stations  |  | AEP (100%) |
| b2462   | Add two 138 kV circuit breakers at Fremont station to fix tower contingency '408_2'  |  | AEP (100%) |
| b2501   | Construct a new 138/69 kV Yager station by tapping 2-138 kV FE circuits (Nottingham-Cloverdale, Nottingham-Harmon)                     |  | AEP (100%) |
| b2501.2 | Build a new 138 kV line from new Yager station to Azalea station   |  | AEP (100%) |
| b2501.3 | Close the 138 kV loop back into Yager 138 kV by converting part of local 69 kV facilities to 138 kV                                    |  | AEP (100%) |
| b2501.4 | Build 2 new 69 kV exits to reinforce 69 kV facilities and upgrade conductor between Irish Run 69 kV Switch and Bowerstown 69 kV Switch |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2502.1 | Construct new 138 kV switching station Nottingham tapping 6-138 kV FE circuits (Holloway-Brookside, Holloway-Harmon #1 and #2, Holloway-Reeds, Holloway-New Stacy, Holloway-Cloverdale). Exit a 138 kV circuit from new station to Freebyrd station |  | AEP (100%) |
| b2502.2 | Convert Freebyrd 69 kV to 138 kV  |  | AEP (100%) |
| b2502.3 | Rebuild/convert Freebyrd-South Cadiz 69 kV circuit to 138 kV  |  | AEP (100%) |
| b2502.4 | Upgrade South Cadiz to 138 kV breaker and a half  |  | AEP (100%) |
| b2530   | Replace the Sporn 138 kV breaker 'G1' with 80 kA breaker  |  | AEP (100%) |
| b2531   | Replace the Sporn 138 kV breaker 'D' with 80 kA breaker   |  | AEP (100%) |
| b2532   | Replace the Sporn 138 kV breaker 'O1' with 80 kA breaker  |  | AEP (100%) |
| b2533   | Replace the Sporn 138 kV breaker 'P2' with 80 kA breaker  |  | AEP (100%) |
| b2534   | Replace the Sporn 138 kV breaker 'U' with 80 kA breaker   |  | AEP (100%) |
| b2535   | Replace the Sporn 138 kV breaker 'O' with 80 kA breaker   |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |            |
|-------|---|--|------------|
| b2536 | Replace the Sporn 138 kV breaker 'O2' with 80 kA breaker  |  | AEP (100%) |
| b2537 | Replace the Robinson Park 138 kV breakers A1, A2, B1, B2, C1, C2, D1, D2, E1, E2, and F1 with 63 kA breakers  |  | AEP (100%) |
| b2555 | Reconductor 0.5 miles Tiltonsville – Windsor 138 kV and string the vacant side of the 4.5 mile section using 556 ACSR in a six wire configuration   |  | AEP (100%) |
| b2556 | Install two 138 kV prop structures to increase the maximum operating temperature of the Clinch River- Clinch Field 138 kV line  |  | AEP (100%) |
| b2581 | Temporary operating procedure for delay of upgrade b1464. Open the Corner 138 kV circuit breaker 86 for an overload of the Corner – Washington MP 138 kV line. The tower contingency loss of Belmont – Trissler 138 kV and Belmont – Edgelawn 138 kV should be added to Operational contingency |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2591   | Construct a new 69 kV line approximately 2.5 miles from Colfax to Drewry's. Construct a new Drewry's station and install a new circuit breaker at Colfax station.               |  | AEP (100%) |
| b2592   | Rebuild existing East Coshocton – North Coshocton double circuit line which contains Newcomerstown – N. Coshocton 34.5 kV Circuit and Coshocton – North Coshocton 69 kV circuit |  | AEP (100%) |
| b2593   | Rebuild existing West Bellaire – Glencoe 69 kV line with 138 kV & 69 kV circuits and install 138/69 kV transformer at Glencoe Switch  |  | AEP (100%) |
| b2594   | Rebuild 1.0 mile of Brantley – Bridge Street 69 kV Line with 1033 ACSR overhead conductor   |  | AEP (100%) |
| b2595.1 | Rebuild 7.82 mile Elkhorn City – Haysi S.S 69 kV line utilizing 1033 ACSR built to 138 kV standards   |  | AEP (100%) |
| b2595.2 | Rebuild 5.18 mile Moss – Haysi SS 69 kV line utilizing 1033 ACSR built to 138 kV standards  |  | AEP (100%) |
| b2596   | Move load from the 34.5 kV bus to the 138 kV bus by installing a new 138/12 kV XF at New Carlisle station in Indiana  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2597   | Rebuild approximately 1 mi. section of Dragoon-Virgil Street 34.5 kV line between Dragoon and Dodge Tap switch and replace Dodge switch MOAB to increase thermal capability of Dragoon-Dodge Tap branch |  | AEP (100%) |
| b2598   | Rebuild approximately 1 mile section of the Kline-Virgil Street 34.5 kV line between Kline and Virgil Street tap. Replace MOAB switches at Beiger, risers at Kline, switches and bus at Virgil Street   |  | AEP (100%) |
| b2599   | Rebuild approximately 0.1 miles of 69 kV line between Albion and Albion tap   |  | AEP (100%) |
| b2600   | Rebuild Fremont – Pound line as 138 kV  |  | AEP (100%) |
| b2601   | Fremont Station Improvements  |  | AEP (100%) |
| b2601.1 | Replace MOAB towards Beaver Creek with 138 kV breaker   |  | AEP (100%) |
| b2601.2 | Replace MOAB towards Clinch River with 138 kV breaker   |  | AEP (100%) |
| b2601.3 | Replace 138 kV Breaker A with new bus-tie breaker   |  | AEP (100%) |
| b2601.4 | Re-use Breaker A as high side protection on transformer #1  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2601.5 | Install two (2) circuit switchers on high side of transformers # 2 and 3 at Fremont Station  |  | AEP (100%) |
| b2602.1 | Install 138 kV breaker E2 at North Proctorville  |  | AEP (100%) |
| b2602.2 | Construct 2.5 Miles of 138 kV 1033 ACSR from East Huntington to Darrah 138 kV substations  |  | AEP (100%) |
| b2602.3 | Install breaker on new line exit at Darrah towards East Huntington   |  | AEP (100%) |
| b2602.4 | Install 138 kV breaker on new line at East Huntington towards Darrah   |  | AEP (100%) |
| b2602.5 | Install 138 kV breaker at East Huntington towards North Proctorville   |  | AEP (100%) |
| b2603   | Boone Area Improvements  |  | AEP (100%) |
| b2603.1 | Purchase approximately a 200X300 station site near Slaughter Creek 46 kV station (Wilbur Station)  |  | AEP (100%) |
| b2603.2 | Install 3 138 kV circuit breakers, Cabin Creek to Hernshaw 138 kV circuit  |  | AEP (100%) |
| b2603.3 | Construct 1 mi. of double circuit 138 kV line on Wilbur – Boone 46 kV line with 1590 ACSS 54/19 conductor @ 482 Degree design temp. and 1-159 12/7 ACSR and one 86 Sq.MM. 0.646” OPGW Static wires |  | AEP (100%) |
| b2604   | Bellefonte Transformer Addition  |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2604.1                            | Remove approximately 11.32 miles of the 69 kV line between Millbrook Park and Franklin Furnace   | AEP (100%)              |
| b2604.2                            | At Millbrook Park station, add a new 138/69 kV Transformer #2 (90 MVA) with 3000 A 40 kA breakers on the high and low side. Replace the 600 A MOAB switch and add a 3000 A circuit switcher on the high side of Transformer #1 | AEP (100%)              |
| b2604.3                            | Replace Sciotoville 69 kV station with a new 138/12 kV in-out station (Cottrell) with 2000 A line MOABs facing Millbrook Park and East Wheelersburg 138 kV station   | AEP (100%)              |
| b2604.4                            | Tie Cottrell switch into the Millbrook Park – East Wheelersburg 138 kV circuit by constructing 0.50 mile of line using 795 ACSR 26/7 Drake (SE 359 MVA)  | AEP (100%)              |
| b2604.5                            | Install a new 2000 A 3-way PoP switch outside of Texas Eastern 138 kV substation (Sadiq switch)  | AEP (100%)              |
| b2604.6                            | Replace the Wheelersburg 69 kV station with a new 138/12 kV in-out station (Sweetgum) with a 3000 A 40 kA breaker facing Sadiq switch and a 2000 A 138 kV MOAB facing Althea   | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |  |  |            |
|----------|--|--|------------|
| b2604.7  | Build approximately 1.4 miles of new 138 kV line using 795 ACSR 26/7 Drake (SE 359 MVA) between the new Sadiq switch and the new Sweetgum 138 kV station   |  | AEP (100%) |
| b2604.8  | Remove the existing 69 kV Hayport Road switch  |  | AEP (100%) |
| b2604.9  | Rebuild approximately 2.3 miles along existing Right-Of-Way from Sweetgum to the Hayport Road switch 69 kV location as 138 kV single circuit and rebuild approximately 2.0 miles from the Hayport Road switch to Althea 69 kV with double circuit 138 kV construction, one side operated at 69 kV to continue service to K.O. Wheelersburg, using 795 ACSR 26/7 Drake (SE 359 MVA) |  | AEP (100%) |
| b2604.10 | Build a new station (Althea) with a 138/69 kV, 90 MVA transformer. The 138 kV side will have a single 2000 A 40 kA circuit breaker and the 69 kV side will be a 2000 A 40 kA three breaker ring bus  |  | AEP (100%) |
| b2604.11 | Remote end work at Hanging Rock, East Wheelersburg and North Haverhill 138 kV  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2605   | Rebuild and reconductor Kammer – George Washington 69 kV circuit and George Washington – Moundsville ckt #1, designed for 138 kV. Upgrade limiting equipment at remote ends and at tap stations |  | AEP (100%) |
| b2606   | Convert Bane – Hammondsville from 23 kV to 69 kV operation  |  | AEP (100%) |
| b2607   | Pine Gap Relay Limit Increase   |  | AEP (100%) |
| b2608   | Richlands Relay Upgrade   |  | AEP (100%) |
| b2609   | Thorofare – Goff Run – Powell Mountain 138 kV Build   |  | AEP (100%) |
| b2610   | Rebuild Pax Branch – Scaraboro as 138 kV  |  | AEP (100%) |
| b2611   | Skin Fork Area Improvements   |  | AEP (100%) |
| b2611.1 | New 138/46 kV station near Skin Fork and other components   |  | AEP (100%) |
| b2611.2 | Construct 3.2 miles of 1033 ACSR double circuit from new Station to cut into Sundial-Baileysville 138 kV line   |  | AEP (100%) |
| b2634.1 | Replace metering BCT on Tanners Creek CB T2 with a slip over CT with higher thermal rating in order to remove 1193 MVA limit on facility (Miami Fort-Tanners Creek 345 kV line)                 |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)     |
|------------------------------------|--|-----------------------------|
| b2643                              | Replace the Darrah 138 kV breaker 'L' with 40 kA rated breaker   | AEP (100%)                  |
| b2645                              | Ohio Central 138 kV Loop   | AEP (100%)                  |
| b2667                              | Replace the Muskingum 138 kV bus # 1 and 2   | AEP (100%)                  |
| b2668                              | Reconductor Dequine to Meadow Lake 345 kV circuit #1 utilizing dual 954 ACSR 54/7 cardinal conductor   | AEP (99.89%) / OVEC (0.11%) |
| b2668.1                            | Replace the bus/risers at Dequine 345 kV station   | AEP (100%)                  |
| b2669                              | Install a second 345/138 kV transformer at Desoto  | AEP (100%)                  |
| b2670                              | Replace switch at Elk Garden 138 kV substation (on the Elk Garden – Lebanon 138 kV circuit)  | AEP (100%)                  |
| b2671                              | Replace/upgrade/add terminal equipment at Bradley, Mullensville, Pinnacle Creek, Itmann, and Tams Mountain 138 kV substations. Sag study on Mullens – Wyoming and Mullens – Tams Mt. 138 kV circuits | AEP (100%)                  |

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| Required Transmission Enhancements | Annual Revenue Requirement                                     | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2687.1                            | Install a +/- 450 MVAR SVC at Jacksons Ferry 765 kV substation | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     AEP (100%)</p> |

\*Neptune Regional Transmission System, LLC

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2687.2                            | Install a 300 MVAR shunt line reactor on the Broadford end of the Broadford – Jacksons Ferry 765 kV line   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     AEP (100%)</p> |
| b2697.1                            | Mitigate violations identified by sag study to operate Fieldale-Thornton-Franklin 138 kV overhead line conductor at its max. operating temperature. 6 potential line crossings to be addressed | AEP (100%)   |
| b2697.2                            | Replace terminal equipment at AEP’s Danville and East Danville substations to improve thermal capacity of Danville – East Danville 138 kV circuit  | AEP (100%)   |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2698   | Replace relays at AEP's Cloverdale and Jackson's Ferry substations to improve the thermal capacity of Cloverdale – Jackson's Ferry 765 kV line |  | AEP (100%) |
| b2701.1 | Construct Herlan station as breaker and a half configuration with 9-138 kV CB's on 4 strings and with 2-28.8 MVAR capacitor banks              |  | AEP (100%) |
| b2701.2 | Construct new 138 kV line from Herlan station to Blue Racer station. Estimated approx. 3.2 miles of 1234 ACSS/TW Yukon and OPGW                |  | AEP (100%) |
| b2701.3 | Install 1-138 kV CB at Blue Racer to terminate new Herlan circuit  |  | AEP (100%) |
| b2714   | Rebuild/upgrade line between Glencoe and Willow Grove Switch 69 kV   |  | AEP (100%) |
| b2715   | Build approximately 11.5 miles of 34.5 kV line with 556.5 ACSR 26/7 Dove conductor on wood poles from Flushing station to Smyrna station       |  | AEP (100%) |
| b2727   | Replace the South Canton 138 kV breakers 'K', 'J', 'J1', and 'J2' with 80 kA breakers  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2731   | Convert the Sunnyside – East Sparta – Malvern 23 kV sub-transmission network to 69 kV. The lines are already built to 69 kV standards  |  | AEP (100%) |
| b2733   | Replace South Canton 138 kV breakers ‘L’ and ‘L2’ with 80 kA rated breakers  |  | AEP (100%) |
| b2750.1 | Retire Betsy Layne 138/69/43 kV station and replace it with the greenfield Stanville station about a half mile north of the existing Betsy Layne station   |  | AEP (100%) |
| b2750.2 | Relocate the Betsy Layne capacitor bank to the Stanville 69 kV bus and increase the size to 14.4 MVAR  |  | AEP (100%) |
| b2753.1 | Replace existing George Washington station 138 kV yard with GIS 138 kV breaker and a half yard in existing station footprint. Install 138 kV revenue metering for new IPP connection             |  | AEP (100%) |
| b2753.2 | Replace Dilles Bottom 69/4 kV Distribution station as breaker and a half 138 kV yard design including AEP Distribution facilities but initial configuration will constitute a 3 breaker ring bus |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b2753.3 | Connect two 138 kV 6-wired circuits from “Point A” (currently de-energized and owned by FirstEnergy) in circuit positions previously designated Burger #1 & Burger #2 138 kV. Install interconnection settlement metering on both circuits exiting Holloway |  | AEP (100%) |
| b2753.6 | Build double circuit 138 kV line from Dilles Bottom to “Point A”. Tie each new AEP circuit in with a 6-wired line at Point A. This will create a Dilles Bottom – Holloway 138 kV circuit and a George Washington – Holloway 138 kV circuit                  |  | AEP (100%) |
| b2753.7 | Retire line sections (Dilles Bottom – Bellaire and Moundsville – Dilles Bottom 69 kV lines) south of FirstEnergy 138 kV line corridor, near “Point A”. Tie George Washington – Moundsville 69 kV circuit to George Washington – West Bellaire 69 kV circuit |  | AEP (100%) |
| b2753.8 | Rebuild existing 69 kV line as double circuit from George Washington – Dilles Bottom 138 kV. One circuit will cut into Dilles Bottom 138 kV initially and the other will go past with future plans to cut in  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |  |
|---------|--|--|--|
| b2760   | Perform a Sag Study of the Saltville – Tazewell 138 kV line to increase the thermal rating of the line   |  | AEP (100%)                                 |
| b2761.2 | Perform a Sag Study of the Hazard – Wooten 161 kV line to increase the thermal rating of the line  |  | AEP (100%)                                 |
| b2761.3 | Rebuild the Hazard – Wooten 161 kV line utilizing 795 26/7 ACSR conductor (300 MVA rating)   |  | AEP (100%)                                 |
| b2762   | Perform a Sag Study of Nagel – West Kingsport 138 kV line to increase the thermal rating of the line   |  | AEP (100%)                                 |
| b2776   | Reconductor the entire Dequine – Meadow Lake 345 kV circuit #2   |  | AEP (99.89%) / OVEC (0.11%)                |
| b2777   | Reconductor the entire Dequine – Eugene 345 kV circuit #1  |  | AEP (5.96%) / EKPC (89.89%) / OVEC (4.15%) |
| b2779.1 | Construct a new 138 kV station, Campbell Road, tapping into the Grabill – South Hicksville 138 kV line   |  | AEP (100%)                                 |
| b2779.2 | Reconstruct sections of the Butler-N.Hicksville and Auburn-Butler 69 kV circuits as 138 kV double circuit and extend 138 kV from Campbell Road station |  | AEP (100%)                                 |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b2779.3 | Construct a new 345/138 kV SDI Wilmington Station which will be sourced from Collingwood 345 kV and serve the SDI load at 345 kV and 138 kV, respectively  |  | AEP (100%) |
| b2779.4 | Loop 138 kV circuits in-out of the new SDI Wilmington 138 kV station resulting in a direct circuit to Auburn 138 kV and an indirect circuit to Auburn and Rob Park via Dunton Lake, and a circuit to Campbell Road; Reconductor 138 kV line section between Dunton Lake – SDI Wilmington |  | AEP (100%) |
| b2779.5 | Expand Auburn 138 kV bus   |  | AEP (100%) |
| b2779.6 | Construct a 345 kV ring bus at Dunton Lake to serve Steel Dynamics, Inc. (SDI) load at 345 kV via two (2) circuits   |  | AEP (100%) |
| b2779.7 | Retire Collingwood 345 kV station  |  | AEP (100%) |
| b2787   | Reconductor 0.53 miles (14 spans) of the Kaiser Jct. - Air Force Jct. Sw section of the Kaiser - Heath 69 kV circuit/line with 336 ACSR to match the rest of the circuit (73 MVA rating, 78% loading)  |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |  |  |            |
|-------|--|--|------------|
| b2788 | Install a new 3-way 69 kV line switch to provide service to AEP's Barnesville distribution station. Remove a portion of the #1 copper T-Line from the 69 kV through-path |  | AEP (100%) |
| b2789 | Rebuild the Brues - Glendale Heights 69 kV line section (5 miles) with 795 ACSR (128 MVA rating, 43% loading)  |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2790                              | Install a 3 MVAR, 34.5 kV cap bank at Caldwell substation   | AEP (100%)              |
| b2791                              | Rebuild Tiffin – Howard, new transformer at Chatfield   | AEP (100%)              |
| b2791.1                            | Rebuild portions of the East Tiffin - Howard 69 kV line from East Tiffin to West Rockaway Switch (0.8 miles) using 795 ACSR Drake conductor (129 MVA rating, 50% loading)   | AEP (100%)              |
| b2791.2                            | Rebuild Tiffin - Howard 69 kV line from St. Stephen’s Switch to Hinesville (14.7 miles) using 795 ACSR Drake conductor (90 MVA rating, non-conductor limited, 38% loading)  | AEP (100%)              |
| b2791.3                            | New 138/69 kV transformer with 138/69 kV protection at Chatfield  | AEP (100%)              |
| b2791.4                            | New 138/69 kV protection at existing Chatfield transformer  | AEP (100%)              |
| b2792                              | Replace the Elliott transformer with a 130 MVA unit, reconductor 0.42 miles of the Elliott – Ohio University 69 kV line with 556 ACSR to match the rest of the line conductor (102 MVA rating, 73% loading) and rebuild 4 miles of the Clark Street – Strouds R | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2793                              | Energize the spare Fremont Center 138/69 kV 130 MVA transformer #3. Reduces overloaded facilities to 46% loading   | AEP (100%)              |
| b2794                              | Construct new 138/69/34 kV station and 1-34 kV circuit (designed for 69 kV) from new station to Decliff station, approximately 4 miles, with 556 ACSR conductor (51 MVA rating)                | AEP (100%)              |
| b2795                              | Install a 34.5 kV 4.8 MVAR capacitor bank at Killbuck 34.5 kV station  | AEP (100%)              |
| b2796                              | Rebuild the Malvern - Oneida Switch 69 kV line section with 795 ACSR (1.8 miles, 125 MVA rating, 55% loading)  | AEP (100%)              |
| b2797                              | Rebuild the Ohio Central - Conesville 69 kV line section (11.8 miles) with 795 ACSR conductor (128 MVA rating, 57% loading). Replace the 50 MVA Ohio Central 138/69 kV XFMR with a 90 MVA unit | AEP (100%)              |
| b2798                              | Install a 14.4 MVAR capacitor bank at West Hicksville station. Replace ground switch/MOAB at West Hicksville with a circuit switcher   | AEP (100%)              |
| b2799                              | Rebuild Valley - Almena, Almena - Hartford, Riverside - South Haven 69 kV lines. New line exit at Valley Station. New transformers at Almena and Hartford                                      | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2799.1                            | Rebuild 12 miles of Valley – Almena 69 kV line as a double circuit 138/69 kV line using 795 ACSR conductor (360 MVA rating) to introduce a new 138 kV source into the 69 kV load pocket around Almena station | AEP (100%)              |
| b2799.2                            | Rebuild 3.2 miles of Almena to Hartford 69 kV line using 795 ACSR conductor (90 MVA rating)   | AEP (100%)              |
| b2799.3                            | Rebuild 3.8 miles of Riverside – South Haven 69 kV line using 795 ACSR conductor (90 MVA rating)  | AEP (100%)              |
| b2799.4                            | At Valley station, add new 138 kV line exit with a 3000 A 40 kA breaker for the new 138 kV line to Almena and replace CB D with a 3000 A 40 kA breaker  | AEP (100%)              |
| b2799.5                            | At Almena station, install a 90 MVA 138/69 kV transformer with low side 3000 A 40 kA breaker and establish a new 138 kV line exit towards Valley  | AEP (100%)              |
| b2799.6                            | At Hartford station, install a second 90 MVA 138/69 kV transformer with a circuit switcher and 3000 A 40 kA low side breaker  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2817                              | Replace Delaware 138 kV breaker 'P' with a 40 kA breaker                         | AEP (100%)              |
| b2818                              | Replace West Huntington 138 kV breaker 'F' with a 40 kA breaker                  | AEP (100%)              |
| b2819                              | Replace Madison 138 kV breaker 'V' with a 63 kA breaker                          | AEP (100%)              |
| b2820                              | Replace Sterling 138 kV breaker 'G' with a 40 kA breaker                         | AEP (100%)              |
| b2821                              | Replace Morse 138 kV breakers '103', '104', '105', and '106' with 63 kA breakers | AEP (100%)              |
| b2822                              | Replace Clinton 138 kV breakers '105' and '107' with 63 kA breakers              | AEP (100%)              |
| b2826.1                            | Install 300 MVAR reactor at Ohio Central 345 kV substation                       | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |  |
|---------|--|--|--|
| b2826.2 | Install 300 MVAR reactor at West Bellaire 345 kV substation  |  | AEP (100%)   |
| b2831.1 | Upgrade the Tanner Creek – Miami Fort 345 kV circuit (AEP portion)   |  | <b>DFAX Allocation:</b><br>AEP (27.09%) / Dayton (38.64%)<br>/ DEOK (34.27%) |
| b2832   | Six wire the Kyger Creek – Sporn 345 kV circuits #1 and #2 and convert them to one circuit                                       |  | AEP (100%)   |
| b2833   | Reconductor the Maddox Creek – East Lima 345 kV circuit with 2-954 ACSS Cardinal conductor                                       |  | <b>DFAX Allocation:</b><br>AEP (76.06%) / Dayton (23.94%)                    |
| b2834   | Reconductor and string open position and sixwire 6.2 miles of the Chemical – Capitol Hill 138 kV circuit                         |  | AEP (100%)   |
| b2872   | Replace the South Canton 138 kV breaker ‘K2’ with a 80 kA breaker  |  | AEP (100%)   |
| b2873   | Replace the South Canton 138 kV breaker “M” with a 80 kA breaker   |  | AEP (100%)   |
| b2874   | Replace the South Canton 138 kV breaker “M2” with a 80 kA breaker  |  | AEP (100%)   |
| b2878   | Upgrade the Clifty Creek 345 kV risers   |  | AEP (100%)   |
| b2880   | Rebuild approximately 4.77 miles of the Cannonsburg – South Neal 69 kV line section utilizing 795 ACSR conductor (90 MVA rating) |  | AEP (100%)   |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2881                              | Rebuild ~1.7 miles of the Dunn Hollow – London 46 kV line section utilizing 795 26/7 ACSR conductor (58 MVA rating, non-conductor limited)   | AEP (100%)              |
| b2882                              | Rebuild Reusens - Peakland Switch 69 kV line. Replace Peakland Switch  | AEP (100%)              |
| b2882.1                            | Rebuild the Reusens - Peakland Switch 69 kV line (approximately 0.8 miles) utilizing 795 ACSR conductor (86 MVA rating, non-conductor limited)   | AEP (100%)              |
| b2882.2                            | Replace existing Peakland S.S with new 3 way switch phase over phase structure   | AEP (100%)              |
| b2883                              | Rebuild the Craneco – Pardee – Three Forks – Skin Fork 46 kV line section (approximately 7.2 miles) utilizing 795 26/7 ACSR conductor (108 MVA rating)   | AEP (100%)              |
| b2884                              | Install a second transformer at Nagel station, comprised of 3 single phase 250 MVA 500/138 kV transformers. Presently, TVA operates their end of the Boone Dam – Holston 138 kV interconnection as normally open preemptively for the loss of the existing Nagel | AEP (100%)              |
| b2885                              | New delivery point for City of Jackson   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2885.1                            | Install a new Ironman Switch to serve a new delivery point requested by the City of Jackson for a load increase request   | AEP (100%)              |
| b2885.2                            | Install a new 138/69 kV station (Rhodes) to serve as a third source to the area to help relieve overloads caused by the customer load increase                      | AEP (100%)              |
| b2885.3                            | Replace Coalton Switch with a new three breaker ring bus (Heppner)  | AEP (100%)              |
| b2886                              | Install 90 MVA 138/69 kV transformer, new transformer high and low side 3000 A 40 kA CBs, and a 138 kV 40 kA bus tie breaker at West End Fostoria                   | AEP (100%)              |
| b2887                              | Add 2-138 kV CB's and relocate 2-138 kV circuit exits to different bays at Morse Road. Eliminate 3 terminal line by terminating Genoa - Morse circuit at Morse Road | AEP (100%)              |
| b2888                              | Retire Poston substation. Install new Lemaster substation   | AEP (100%)              |
| b2888.1                            | Remove and retire the Poston 138 kV station   | AEP (100%)              |
| b2888.2                            | Install a new greenfield station, Lemaster 138 kV Station, in the clear   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2888.3                            | Relocate the Trimble 69 kV AEP Ohio radial delivery point to 138 kV, to be served off of the Poston – Strouds Run – Crooksville 138 kV circuit via a new three-way switch. Retire the Poston - Trimble 69 kV line  | AEP (100%)              |
| b2889                              | Expand Cliffview station   | AEP (100%)              |
| b2889.1                            | Cliffview Station: Establish 138 kV bus. Install two 138/69 kV XFRs (130 MVA), six 138 kV CBs (40 kA 3000 A) and four 69 kV CBs (40 kA 3000 A)   | AEP (100%)              |
| b2889.2                            | Byllesby – Wythe 69 kV: Retire all 13.77 miles (1/0 CU) of this circuit (~4 miles currently in national forest)  | AEP (100%)              |
| b2889.3                            | Galax – Wythe 69 kV: Retire 13.53 miles (1/0 CU section) of line from Lee Highway down to Byllesby. This section is currently double circuited with Byllesby – Wythe 69 kV. Terminate the southern 3/0 ACSR section into the newly opened position at Byllesby | AEP (100%)              |
| b2889.4                            | Cliffview Line: Tap the existing Pipers Gap – Jubal Early 138 kV line section. Construct double circuit in/out (~2 miles) to newly established 138 kV bus, utilizing 795 26/7 ACSR conductor   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2890.1                            | Rebuild 23.55 miles of the East Cambridge – Smyrna 34.5 kV circuit with 795 ACSR conductor (128 MVA rating) and convert to 69 kV  | AEP (100%)              |
| b2890.2                            | East Cambridge: Install a 2000 A 69 kV 40 kA circuit breaker for the East Cambridge – Smyrna 69 kV circuit  | AEP (100%)              |
| b2890.3                            | Old Washington: Install 69 kV 2000 A two way phase over phase switch  | AEP (100%)              |
| b2890.4                            | Install 69 kV 2000 A two way phase over phase switch  | AEP (100%)              |
| b2891                              | Rebuild the Midland Switch to East Findlay 34.5 kV line (3.31 miles) with 795 ACSR (63 MVA rating) to match other conductor in the area   | AEP (100%)              |
| b2892                              | Install new 138/12 kV transformer with high side circuit switcher at Leon and a new 138 kV line exit towards Ripley. Establish 138 kV at the Ripley station with a new 138/69 kV 130 MVA transformer and move the distribution load to 138 kV service | AEP (100%)              |
| b2936.1                            | Rebuild approximately 6.7 miles of 69 kV line between Mottville and Pigeon River using 795 ACSR conductor (129 MVA rating). New construction will be designed to 138 kV standards but operated at 69 kV   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2936.2                            | Pigeon River Station: Replace existing MOAB Sw. 'W' with a new 69 kV 3000 A 40 kA breaker, and upgrade existing relays towards HMD station. Replace CB H with a 3000 A 40 kA breaker | AEP (100%)              |
| b2937                              | Replace the existing 636 ACSR 138 kV bus at Fletchers Ridge with a larger 954 ACSR conductor   | AEP (100%)              |
| b2938                              | Perform a sag mitigations on the Broadford – Wolf Hills 138 kV circuit to allow the line to operate to a higher maximum temperature  | AEP (100%)              |
| b2958.1                            | Cut George Washington – Tidd 138 kV circuit into Sand Hill and reconfigure Brues & Warton Hill line entrances  | AEP (100%)              |
| b2958.2                            | Add 2 138 kV 3000 A 40 kA breakers, disconnect switches, and update relaying at Sand Hill station  | AEP (100%)              |
| b2968                              | Upgrade existing 345 kV terminal equipment at Tanner Creek station   | AEP (100%)              |
| b2969                              | Replace terminal equipment on Maddox Creek - East Lima 345 kV circuit  | AEP (100%)              |
| b2976                              | Upgrade terminal equipment at Tanners Creek 345 kV station. Upgrade 345 kV bus and risers at Tanners Creek for the Dearborn circuit  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b2988                              | Replace the Twin Branch 345 kV breaker “JM” with 63 kA breaker and associated substation works including switches, bus leads, control cable and new DICM | AEP (100%)              |
| b2993                              | Rebuild the Torrey – South Gambrinus Switch – Gambrinus Road 69 kV line section (1.3 miles) with 1033 ACSR ‘Curlew’ conductor and steel poles            | AEP (100%)              |
| b3000                              | Replace South Canton 138 kV breaker ‘N’ with an 80 kA breaker  | AEP (100%)              |
| b3001                              | Replace South Canton 138 kV breaker ‘N1’ with an 80 kA breaker   | AEP (100%)              |
| b3002                              | Replace South Canton 138 kV breaker ‘N2’ with an 80 kA breaker   | AEP (100%)              |
| b3036                              | Rebuild 15.6 miles of Haviland - North Delphos 138 kV line   | AEP (100%)              |
| b3037                              | Upgrades at the Natrium substation   | AEP (100%)              |
| b3038                              | Reconductor the Capitol Hill – Coco 138 kV line section  | AEP (100%)              |
| b3039                              | Line swaps at Muskingum 138 kV station   | AEP (100%)              |
| b3040.1                            | Rebuild Ravenswood – Racine tap 69 kV line section (~15 miles) to 69 kV standards, utilizing 795 26/7 ACSR conductor                                     | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3040.2                            | Rebuild existing Ripley – Ravenswood 69 kV circuit (~9 miles) to 69 kV standards, utilizing 795 26/7 ACSR conductor                              | AEP (100%)              |
| b3040.3                            | Install new 3-way phase over phase switch at Sarah Lane station to replace the retired switch at Cottageville                                    | AEP (100%)              |
| b3040.4                            | Install new 138/12 kV 20 MVA transformer at Polymer station to transfer load from Mill Run station to help address overload on the 69 kV network | AEP (100%)              |
| b3040.5                            | Retire Mill Run station  | AEP (100%)              |
| b3040.6                            | Install 28.8 MVAR cap bank at South Buffalo station  | AEP (100%)              |
| b3051.2                            | Adjust CT tap ratio at Ronceverte 138 kV   | AEP (100%)              |
| b3085                              | Reconductor Kammer – George Washington 138 kV line (approx. 0.08 mile). Replace the wave trap at Kammer 138 kV                                   | AEP (100%)              |
| b3086.1                            | Rebuild New Liberty – Findlay 34 kV line Str's 1–37 (1.5 miles), utilizing 795 26/7 ACSR conductor   | AEP (100%)              |
| b3086.2                            | Rebuild New Liberty – North Baltimore 34 kV line Str's 1-11 (0.5 mile), utilizing 795 26/7 ACSR conductor  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3086.3                            | Rebuild West Melrose – Whirlpool 34 kV line Str’s 55–80 (1 mile), utilizing 795 26/7 ACSR conductor   | AEP (100%)              |
| b3086.4                            | North Findlay station: Install a 138 kV 3000A 63kA line breaker and low side 34.5 kV 2000A 40 kA breaker, high side 138 kV circuit switcher on T1 | AEP (100%)              |
| b3086.5                            | Ebersole station: Install second 90 MVA 138/69/34 kV transformer. Install two low side (69 kV) 2000A 40 kA breakers for T1 and T2                 | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3095                              | Rebuild Lakin – Racine Tap 69 kV line section (9.2 miles) to 69 kV standards, utilizing 795 26/7 ACSR conductor  | AEP (100%)              |
| b3099                              | Install a 138 kV 3000A 40 kA circuit switcher on the high side of the existing 138/34.5 kV transformer No.5 at Holston station   | AEP (100%)              |
| b3100                              | Replace the 138 kV MOAB switcher “YY” with a new 138 kV circuit switcher on the high side of Chemical transformer No.6   | AEP (100%)              |
| b3101                              | Rebuild the 1/0 Cu. conductor sections (approx. 1.5 miles) of the Fort Robinson – Moccasin Gap 69 kV line section (approx. 5 miles) utilizing 556 ACSR conductor and upgrade existing relay trip limit (WN/WE: 63 MVA, line limited by remaining conductor sections) | AEP (100%)              |
| b3102                              | Replace existing 50 MVA 138/69 kV transformers #1 and #2 (both 1957 vintage) at Fremont station with new 130 MVA 138/69 kV transformers  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b3103.1                            | Install a 138/69 kV transformer at Royerton station. Install a 69 kV bus with one 69 kV breaker toward Bosman station. Rebuild the 138 kV portion into a ring bus configuration built for future breaker and a half with four 138 kV breakers  |  | AEP (100%)              |
| b3103.2                            | Rebuild the Bosman/Strawboard station in the clear across the road to move it out of the flood plain and bring it up to 69 kV standards  |  | AEP (100%)              |
| b3103.3                            | Retire 138 kV breaker L at Delaware station and re-purpose 138 kV breaker M for the Jay line   |  | AEP (100%)              |
| b3103.4                            | Retire all 34.5 kV equipment at Hartford City station. Re-purpose breaker M for the Bosman line 69 kV exit   |  | AEP (100%)              |
| b3103.5                            | Rebuild the 138 kV portion of Jay station as a 6 breaker, breaker and a half station re-using the existing breakers "A", "B", and "G." Rebuild the 69 kV portion of this station as a 6 breaker ring bus re-using the 2 existing 69 kV breakers. Install a new 138/69 kV transformer |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3103.6                            | Rebuild the 69 kV Hartford City – Armstrong Cork line but instead of terminating it into Armstrong Cork, terminate it into Jay station   | AEP (100%)              |
| b3103.7                            | Build a new 69 kV line from Armstrong Cork – Jay station   | AEP (100%)              |
| b3103.8                            | Rebuild the 34.5 kV Delaware – Bosman line as the 69 kV Royerton – Strawboard line. Retire the line section from Royerton to Delaware stations   | AEP (100%)              |
| b3104                              | Perform a sag study on the Polaris – Westerville 138 kV line (approx. 3.6 miles) to increase the summer emergency rating to 310 MVA  | AEP (100%)              |
| b3105                              | Rebuild the Delaware – Hyatt 138 kV line (approx. 4.3 miles) along with replacing conductors at both Hyatt and Delaware substations  | AEP (100%)              |
| b3106                              | Perform a sag study (6.8 miles of line) to increase the SE rating to 310 MVA. Note that results from the sag study could cover a wide range of outcomes, from no work required to a complete rebuild | AEP (100%)              |
| b3109                              | Rebuild 5.2 miles Bethel – Sawmill 138 kV line including ADSS  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3112                              | Construct a single circuit 138 kV line (approx. 3.5 miles) from Amlin to Dublin using 1033 ACSR Curlew (296 MVA SN), convert Dublin station into a ring configuration, and re-terminating the Britton UG cable to Dublin station | AEP (100%)              |
| b3116                              | Replace existing Mullens 138/46 kV 30 MVA transformer No.4 and associated protective equipment with a new 138/46 kV 90 MVA transformer and associated protective equipment   | AEP (100%)              |
| b3119.1                            | Rebuild the Jay – Pennville 138 kV line as double circuit 138/69 kV. Build a new 9.8 mile single circuit 69 kV line from near Pennville station to North Portland station  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3119.2                            | Install three (3) 69 kV breakers to create the “U” string and add a low side breaker on the Jay transformer 2   | AEP (100%)              |
| b3119.3                            | Install two (2) 69 kV breakers at North Portland station to complete the ring and allow for the new line  | AEP (100%)              |
| b3129                              | At Conesville 138 kV station: Remove line leads to generating units, transfer plant AC service to existing station service feeds in Conesville 345/138 kV yard, and separate and reconfigure protection schemes | AEP (100%)              |
| b3131                              | At East Lima and Haviland 138 kV stations, replace line relays and wavetrap on the East Lima – Haviland 138 kV facility   | AEP (100%)              |
| b3131.1                            | Rebuild approximately 12.3 miles of remaining Lark conductor on the double circuit line between Haviland and East Lima with 1033 54/7 ACSR conductor  | AEP (100%)              |
| b3132                              | Rebuild 3.11 miles of the LaPorte Junction – New Buffalo 69 kV line with 795 ACSR   | AEP (100%)              |
| b3139                              | Rebuild the Garden Creek – Whetstone 69 kV line (approx. 4 miles)   | AEP (100%)              |
| b3140                              | Rebuild the Whetstone – Knox Creek 69 kV line (approx. 3.1 miles)   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3141                              | Rebuild the Knox Creek – Coal Creek 69 kV line (approx. 2.9 miles)   | AEP (100%)              |
| b3148.1                            | Rebuild the 46 kV Bradley – Scarbro line to 96 kV standards using 795 ACSR to achieve a minimum rate of 120 MVA. Rebuild the new line adjacent to the existing one leaving the old line in service until the work is completed       | AEP (100%)              |
| b3148.2                            | Bradley remote end station work, replace 46 kV bus, install new 12 MVAR capacitor bank   | AEP (100%)              |
| b3148.3                            | Replace the existing switch at Sun substation with a 2-way SCADA-controlled motor-operated air-breaker switch  | AEP (100%)              |
| b3148.4                            | Remote end work and associated equipment at Scarbro station  | AEP (100%)              |
| b3148.5                            | Retire Mt. Hope station and transfer load to existing Sun station  | AEP (100%)              |
| b3149                              | Rebuild the 2.3 mile Decatur – South Decatur 69 kV line using 556 ACSR   | AEP (100%)              |
| b3150                              | Rebuild Ferguson 69/12 kV station in the clear as the 138/12 kV Bear station and connect it to an approx. 1 mile double circuit 138 kV extension from the Aviation – Ellison Road 138 kV line to remove the load from the 69 kV line | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3151.1                            | Rebuild the 30 mile Gateway – Wallen 34.5 kV circuit as the 27 mile Gateway – Wallen 69 kV line   | AEP (100%)              |
| b3151.2                            | Retire approx. 3 miles of the Columbia – Whitley 34.5 kV line   | AEP (100%)              |
| b3151.3                            | At Gateway station, remove all 34.5 kV equipment and install one (1) 69 kV circuit breaker for the new Whitley line entrance  | AEP (100%)              |
| b3151.4                            | Rebuild Whitley as a 69 kV station with two (2) lines and one (1) bus tie circuit breaker   | AEP (100%)              |
| b3151.5                            | Replace the Union 34.5 kV switch with a 69 kV switch structure  | AEP (100%)              |
| b3151.6                            | Replace the Eel River 34.5 kV switch with a 69 kV switch structure  | AEP (100%)              |
| b3151.7                            | Install a 69 kV Bobay switch at Woodland station  | AEP (100%)              |
| b3151.8                            | Replace the Carroll and Churubusco 34.5 kV stations with the 69 kV Snapper station. Snapper station will have two (2) line circuit breakers, one (1) bus tie circuit breaker and a 14.4 MVAR cap bank | AEP (100%)              |
| b3151.9                            | Remove 34.5 kV circuit breaker “AD” at Wallen station   | AEP (100%)              |
| b3151.10                           | Rebuild the 2.5 miles of the Columbia – Gateway 69 kV line  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3151.11                           | Rebuild Columbia station in the clear as a 138/69 kV station with two (2) 138/69 kV transformers and 4-breaker ring buses on the high and low side. Station will reuse 69 kV breakers “J” & “K” and 138 kV breaker “D” | AEP (100%)              |
| b3151.12                           | Rebuild the 13 miles of the Columbia – Richland 69 kV line   | AEP (100%)              |
| b3151.13                           | Rebuild the 0.5 mile Whitley – Columbia City No.1 line as 69 kV  | AEP (100%)              |
| b3151.14                           | Rebuild the 0.5 mile Whitley – Columbia City No.2 line as 69 kV  | AEP (100%)              |
| b3151.15                           | Rebuild the 0.6 mile double circuit section of the Rob Park – South Hicksville / Rob Park – Diebold Road as 69 kV  | AEP (100%)              |
| b3160.1                            | Construct an approx. 2.4 miles double circuit 138 kV extension using 1033 ACSR (Aluminum Conductor Steel Reinforced) to connect Lake Head to the 138 kV network  | AEP (100%)              |
| b3160.2                            | Retire the approx.2.5 miles 34.5 kV Niles – Simplicity Tap line  | AEP (100%)              |
| b3160.3                            | Retire the approx.4.6 miles Lakehead 69 kV Tap   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s) |
|------------------------------------|---|--|-------------------------|
| b3160.4                            | Build new 138/69 kV drop down station to feed Lakehead with a 138 kV breaker, 138 kV switcher, 138/69 kV transformer and a 138 kV Motor-Operated Air Break                          |  | AEP (100%)              |
| b3160.5                            | Rebuild the approx. 1.2 miles Buchanan South 69 kV Radial Tap using 795 ACSR (Aluminum Conductor Steel Reinforced)  |  | AEP (100%)              |
| b3160.6                            | Rebuild the approx. 8.4 miles 69 kV Pletcher – Buchanan Hydro line as the approx. 9 miles Pletcher – Buchanan South 69 kV line using 795 ACSR (Aluminum Conductor Steel Reinforced) |  | AEP (100%)              |
| b3160.7                            | Install a PoP (Point-of-Presence) switch at Buchanan South station with 2 line MOABs (Motor-Operated Air Break)   |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| <p>b3208</p>                       | <p>Retire approximately 38 miles of the 44 mile Clifford – Scottsville 46 kV circuit. Build new 138 kV “in and out” to two new distribution stations to serve the load formerly served by Phoenix, Shipman, Schuyler (AEP), and Rockfish stations. Construct new 138 kV lines from Joshua Falls – Riverville (approx. 10 miles) and Riverville – Gladstone (approx. 5 miles). Install required station upgrades at Joshua Falls, Riverville and Gladstone stations to accommodate the new 138 kV circuits. Rebuild Reusen – Monroe 69 kV (approx. 4 miles)</p> | <p>AEP (100%)</p>       |
| <p>b3209</p>                       | <p>Rebuild the 10.5 mile Berne – South Decatur 69 kV line using 556 ACSR</p>   | <p>AEP (100%)</p>       |
| <p>b3210</p>                       | <p>Replace approx. 0.7 mile Beatty – Galloway 69 kV line with 4000 kcmil XLPE cable</p>  | <p>AEP (100%)</p>       |
| <p>b3220</p>                       | <p>Install 14.4 MVAR capacitor bank at Whitewood 138 kV</p>  | <p>AEP (100%)</p>       |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3243                              | Replace risers at the Bass 34.5 kV station  | AEP (100%)              |
| b3244                              | Rebuild approximately 9 miles of the Robinson Park – Harlan 69 kV line                      | AEP (100%)              |
| b3248                              | Install a low side 69 kV circuit breaker at the Albion 138/69 kV transformer #1             | AEP (100%)              |
| b3249                              | Rebuild the Chatfield – Melmore 138 kV line (approximately 10 miles) to 1033 ACSR conductor | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3253                              | Install a 3000A 40 kA 138 kV breaker on the high side of 138/69 kV transformer #5 at the Millbrook Park station. The transformer and associated bus protection will be upgraded accordingly | AEP (100%)              |
| b3255                              | Upgrade 795 AAC risers at the Sand Hill 138 kV station towards Cricket Switch with 1272 AAC   | AEP (100%)              |
| b3256                              | Upgrade 500 MCM Cu risers at Tidd 138 kV station towards Wheeling Steel; replace with 1272 AAC conductor  | AEP (100%)              |
| b3257                              | Replace two spans of 336.4 26/7 ACSR on the Twin Branch – AM General #2 34.5 kV circuit   | AEP (100%)              |
| b3258                              | Install a 3000A 63 kA 138 kV breaker on the high side of 138/69 kV transformer #2 at Wagenhals station. The transformer and associated bus protection will be upgraded accordingly          | AEP (100%)              |
| b3259                              | At West Millersburg station, replace the 138 kV MOAB on the West Millersburg – Wooster 138 kV line with a 3000A 40 kA breaker   | AEP (100%)              |
| b3261                              | Upgrade circuit breaker “R1” at Tanners Creek 345 kV. Install Transient Recovery Voltage capacitor to increase the rating from 50 kA to 63 kA   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3269                              | At West New Philadelphia station, add a high side 138 kV breaker on the 138/69 kV Transformer #2 along with a 138 kV breaker on the line towards Newcomerstown   | AEP (100%)              |
| b3270                              | Install 1.7 miles of 795 ACSR 138 kV conductor along the other side of Dragoon Tap 138 kV line, which is currently double circuit tower with one position open. Additionally, install a second 138/34.5 kV transformer at Dragoon, install a high side circuit switcher on the current transformer at the Dragoon Station, and install two (2) 138 kV line breakers on the Dragoon – Jackson 138 kV and Dragoon – Twin Branch 138 kV lines | AEP (100%)              |
| b3270.1                            | Replace Dragoon 34.5 kV breakers “B”, “C”, and “D” with 40 kA breakers   | AEP (100%)              |
| b3271                              | Install a 138 kV circuit breaker at Fremont station on the line towards Fremont Center and install a 9.6 MVAR 69 kV capacitor bank at Bloom Road station   | AEP (100%)              |
| b3272                              | Install two 138 kV circuit switchers on the high side of 138/34.5 kV Transformers #1 and #2 at Rockhill station  | AEP (100%)              |

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| Required Transmission Enhancements   | Annual Revenue Requirement | Responsible Customer(s) |
|--|----------------------------|-------------------------|
| b3273.1<br>Rebuild and convert the existing 17.6 miles East Leipsic – New Liberty 34.5 kV circuit to 138 kV using 795 ACSR   |                            | AEP (100%)              |
| b3273.2<br>Convert the existing 34.5 kV equipment to 138 kV and expand the existing McComb station to the north and east to allow for new equipment to be installed. Install two (2) new 138 kV box bays to allow for line positions and two (2) new 138/12 kV transformers  |                            | AEP (100%)              |
| b3273.3<br>Expand the existing East Leipsic 138 kV station to the north to allow for another 138 kV line exit to be installed. The new line exit will involve installing a new 138 kV circuit breaker, disconnect switches and the addition of a new dead end structure along with the extension of the existing 138 kV bus work |                            | AEP (100%)              |
| b3273.4<br>Add one (1) 138 kV circuit breaker and disconnect switches in order to add an additional line position at New Liberty 138 kV station. Install line relaying potential devices and retire the 34.5 kV breaker ‘F’  |                            | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3274                              | Rebuild approximately 8.9 miles of 69 kV line between Newcomerstown and Salt Fork Switch with 556 ACSR conductor  | AEP (100%)              |
| b3275.1                            | Rebuild the Kammer Station – Cresaps Switch 69 kV line, approximately 0.5 mile  | AEP (100%)              |
| b3275.2                            | Rebuild the Cresaps Switch – McElroy Station 69 kV, approximately 0.67 mile   | AEP (100%)              |
| b3275.3                            | Replace a single span of 4/0 ACSR from Moundsville - Natrium structure 93L to Carbon Tap switch 69 kV located between the Colombia Carbon and Conner Run stations. Remainder of the line is 336 ACSR                  | AEP (100%)              |
| b3275.4                            | Rebuild from Colombia Carbon to Columbia Carbon Tap structure 93N 69 kV, approximately 0.72 mile. The remainder of the line between Colombia Carbon Tap structure 93N and Natrium station is 336 ACSR and will remain | AEP (100%)              |
| b3275.5                            | Replace the Cresaps 69 kV 3-Way Phase-Over-Phase switch and structure with a new 1200A 3-Way switch and steel pole  | AEP (100%)              |
| b3275.6                            | Replace 477 MCM Alum bus and risers at McElroy 69 kV station  | AEP (100%)              |

**American Electric Power Service Corporation on behalf of its affiliate companies: AEP Appalachian Transmission Company, Inc.; AEP Indiana Michigan Transmission Company, Inc.; AEP Ohio Transmission Company, Inc.; AEP West Virginia Transmission Company, Inc.; Appalachian Power Company; Indiana Michigan Power Company; Kingsport Power Company; Ohio Power Company and Wheeling Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3275.7                            | Replace Natrium 138 kV bus existing between CB-BT1 and along the 138 kV Main Bus #1 dropping to CBH1 from the 500 MCM conductors to a 1272 KCM AAC conductor. Replace the dead end clamp and strain insulators | AEP (100%)              |
| b3276.1                            | Rebuild the 2/0 Copper section of the Lancaster – South Lancaster 69 kV line, approximately 2.9 miles of the 3.2 miles total length with 556 ACSR conductor. The remaining section has a 336 ACSR conductor    | AEP (100%)              |
| b3276.2                            | Rebuild the 1/0 Copper section of the line between Lancaster Junction and Ralston station 69 kV, approximately 2.3 miles of the 3.1 miles total length   | AEP (100%)              |
| b3276.3                            | Rebuild the 2/0 Copper portion of the line between East Lancaster Tap and Lancaster 69 kV, approximately 0.81 mile   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b3278.1                            | Replace H.S. MOAB switches on the high side of the 138/69/34.5 kV transformer T1 with a H.S. circuit switcher at Saltville station   |  | AEP (100%)              |
| b3278.2                            | Replace existing 138/69/34.5 kV transformer T2 with a new 130 MVA 138/69/13 kV transformer at Meadowview station   |  | AEP (100%)              |
| b3279                              | Install a new 138 kV, 21.6 MVAR cap bank and circuit switcher at Apple Grove station   |  | AEP (100%)              |
| b3280                              | Rebuild the existing Cabin Creek – Kelly Creek 46 kV line (to Structure 366-44), approximately 4.4 miles. This section is double circuit with the existing Cabin Creek – London 46 kV line so a double circuit rebuild would be required |  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3282.1                            | Install a second 138 kV circuit utilizing 795 ACSR conductor on the open position of the existing double circuit towers from East Huntington – North Proctorville. Remove the existing 34.5 kV line from East Huntington – North Chesapeake and rebuild this section to 138 kV served from a new PoP switch off the new East Huntington – North Proctorville 138 kV #2 line | AEP (100%)              |
| b3282.2                            | Install a 138 kV 40 kA circuit breaker at North Proctorville station  | AEP (100%)              |
| b3282.3                            | Install a 138 kV 40 kA circuit breaker at East Huntington station   | AEP (100%)              |
| b3282.4                            | Convert the existing 34/12 kV North Chesapeake to a 138/12 kV station   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3284                              | Rebuild approximately 5.44 miles of 69 kV line from Lock Lane to Point Pleasant   | AEP (100%)              |
| b3285                              | Replace the Meigs 69 kV 4/0 Cu station riser towards Gavin and rebuild the section of the Meigs – Hemlock 69 kV circuit from Meigs to approximately Structure #40 (about 4 miles) replacing the line conductor 4/0 ACSR with the line conductor size 556.5 ACSR | AEP (100%)              |
| b3286                              | Reconductor the first 3 spans from Merrimac station to Structure 464-3 of 3/0 ACSR conductor utilizing 336 ACSR on the existing Merrimac – Midway 69 kV circuit   | AEP (100%)              |
| b3287                              | Upgrade 69 kV risers at Moundsville station towards George Washington   | AEP (100%)              |
| b3289.1                            | Install high-side circuit switcher on 138/69/12 kV T5 at Roanoke station  | AEP (100%)              |
| b3289.2                            | Install high-side circuit switcher on 138/69/34.5 kV T1 at Huntington Court station   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3290.1                            | Build 9.4 miles of single circuit 69 kV line from Roselms to near East Ottoville 69 kV switch   | AEP (100%)              |
| b3290.2                            | Rebuild 7.5 miles of double circuit 69 kV line between East Ottoville switch and Kalida station (combining with the new Roselms to Kalida 69 kV circuit)          | AEP (100%)              |
| b3290.3                            | At Roselms switch, install a new three way 69 kV, 1200 A phase-over-phase switch, with sectionalizing capability  | AEP (100%)              |
| b3290.4                            | At Kalida 69 kV station, terminate the new line from Roselms switch. Move the CS XT2 from high side of T2 to the high side of T1. Remove existing T2 transformer  | AEP (100%)              |
| b3291                              | Replace the Russ St. 34.5 kV switch   | AEP (100%)              |
| b3292                              | Replace existing 69 kV capacitor bank at Stuart station with a 17.2 MVAR capacitor bank   | AEP (100%)              |
| b3293                              | Replace 2/0 Cu entrance span conductor on the South Upper Sandusky 69 kV line and 4/0 Cu Risers/Bus conductors on the Forest line at Upper Sandusky 69 kV station | AEP (100%)              |
| b3294                              | Replace existing 69 kV disconnect switches for circuit breaker "C" at Walnut Avenue station   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3295                              | Grundy 34.5 kV: Install a 34.5 kV 9.6 MVAR cap bank  | AEP (100%)              |
| b3296                              | Rebuild the overloaded portion of the Concord – Whitaker 34.5 kV line (1.13 miles). Rebuild is double circuit and will utilize 795 ACSR conductor                        | AEP (100%)              |
| b3297.1                            | Rebuild 4.23 miles of 69 kV line between Sawmill and Lazelle station, using 795 ACSR 26/7 conductor  | AEP (100%)              |
| b3297.2                            | Rebuild 1.94 miles of 69 kV line between Westerville and Genoa stations, using 795 ACSR 26/7 conductor   | AEP (100%)              |
| b3297.3                            | Replace risers and switchers at Lazelle, Westerville, and Genoa 69 kV stations. Upgrade associated relaying accordingly  | AEP (100%)              |
| b3298                              | Rebuild 0.8 mile of double circuit 69 kV line between South Toronto and West Toronto. Replace 219 ACSR with 556 ACSR   | AEP (100%)              |
| b3298.1                            | Replace the 69 kV breaker D at South Toronto station with 40 kA breaker  | AEP (100%)              |
| b3299                              | Rebuild 0.2 mile of the West End Fostoria - Lumberjack Switch 69 kV line with 556 ACSR (Dove) conductors. Replace jumpers on West End Fostoria line at Lumberjack Switch | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3308                              | Reconductor and rebuild 1 span of T-line on the Fort Steuben – Sunset Blvd 69 kV branch with 556 ACSR   | AEP (100%)              |
| b3309                              | Rebuild 1.75 miles of the Greenlawn – East Tiffin line section of the Carothers – Greenlawn 69 kV circuit containing 133 ACSR conductor with 556 ACSR conductor. Upgrade relaying as required | AEP (100%)              |
| b3310.1                            | Rebuild 10.5 miles of the Howard – Willard 69 kV line utilizing 556 ACSR conductor  | AEP (100%)              |
| b3310.2                            | Upgrade relaying at Howard 69 kV station  | AEP (100%)              |
| b3310.3                            | Upgrade relaying at Willard 69 kV station   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3312                              | Rebuild approximately 4 miles of existing 69 kV line between West Mount Vernon and Mount Vernon stations. Replace the existing 138/69 kV transformer at West Mount Vernon with a larger 90 MVA unit along with existing 69 kV breaker 'C' | AEP (100%)              |
| b3313                              | Add 40 kA circuit breakers on the low and high side of the East Lima 138/69 kV transformer  | AEP (100%)              |
| b3314.1                            | Install a new 138/69 kV 130 MVA transformer and associated protection at Elliot station   | AEP (100%)              |
| b3314.2                            | Perform work at Strouds Run station to retire 138/69/13 kV 33.6 MVA Transformer #1 and install a dedicated 138/13 KV distribution transformer   | AEP (100%)              |
| b3315                              | Upgrade relaying on Mark Center – South Hicksville 69 kV line and replace Mark Center cap bank with a 7.7 MVAR unit   | AEP (100%)              |
| b3320                              | Replace the CT at Don Marquis 345 kV station  | AEP (100%)              |
| b3336                              | Rebuild 6 miles Benton Harbor - Riverside 138 kV double circuit extension   | AEP (100%)              |
| b3337                              | Replace the one (1) Hyatt 138 kV breaker “AB1” (101N) with 3000 A, 63 kA interrupting breaker   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3338                              | Replace the two (2) Kenny 138 kV breakers, "102" (SC-3) and "106" (SC-4), each with a 3000 A, 63 kA interrupting breaker  | AEP (100%)              |
| b3339                              | Replace the one (1) Canal 138 kV breaker "3" with 3000 A, 63 kA breaker   | AEP (100%)              |
| b3342                              | Replace the 2156 ACSR and 2874 ACSR bus and risers with 2-bundled 2156 ACSR at Muskingum River 345 kV station to address loading issues on Muskingum - Waterford 345 kV line  | AEP (100%)              |
| b3343                              | Rebuild approximately 0.3 miles of the overloaded 69 kV line between Albion - Philips Switch and Philips Switch - Brimfield Switch with 556 ACSR conductor  | AEP (100%)              |
| b3344.1                            | Install two (2) 138 kV circuit breakers in the M and N strings in the breaker-and-a-half configuration in West Kingsport station 138 kV yard to allow the Clinch River - Moreland Dr. 138 kV to cut in the West Kingsport station | AEP (100%)              |
| b3344.2                            | Upgrade remote end relaying at Riverport 138 kV station due to the line cut in at West Kingsport station  | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3345.1                            | Rebuild approximately 4.2 miles of overloaded sections of the 69 kV line between Salt Fork switch and Leatherwood switch with 556 ACSR   | AEP (100%)              |
| b3345.2                            | Update relay settings at Broom Road station  | AEP (100%)              |
| b3346.1                            | Rebuild approximately 3.5 miles of overloaded 69 kV line between North Delphos – East Delphos – Elida Road switch station. This includes approximately 1.1 miles of double circuit line that makes up a portion of the North Delphos – South Delphos 69 kV line and the North Delphos – East Delphos 69 kV line. Approximately 2.4 miles of single circuit line will also be rebuilt between the double circuit portion to East Delphos station and from East Delphos to Elida Road switch station | AEP (100%)              |
| b3346.2                            | Replace the line entrance spans at South Delphos station to eliminate the overloaded 4/0 Copper and 4/0 ACSR conductor   | AEP (100%)              |
| b3347.1                            | Rebuild approximately 20 miles of 69 kV line between Bancroft and Milton stations with 556 ACSR conductor  | AEP (100%)              |
| b3347.2                            | Replace the jumpers around Hurrican switch with 556 ACSR   | AEP (100%)              |

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| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3347.3                            | Replace the jumpers around Teays switch with 556 ACSR   | AEP (100%)              |
| b3347.4                            | Update relay settings at Winfield station to coordinate with remote ends on line rebuild  | AEP (100%)              |
| b3347.5                            | Update relay settings at Bancroft station to coordinate with remote ends on line rebuild  | AEP (100%)              |
| b3347.6                            | Update relay settings at Milton station to coordinate with remote ends on line rebuild  | AEP (100%)              |
| b3347.7                            | Update relay settings at Putnam Village station to coordinate with remote ends on line rebuild  | AEP (100%)              |
| b3348.1                            | Construct a 138 kV single bus station (Tin Branch) consisting of a 138 kV box bay with a distribution transformer and 12 kV distribution bay. Two 138 kV lines will feed this station (from Logan and Sprigg stations), and distribution will have one 12 kV feed. Install two 138 kV circuit breakers on the line exits. Install 138 kV circuit switcher for the new transformer | AEP (100%)              |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |            |
|---------|---|--|------------|
| b3348.2 | Construct a new 138/46/12 kV Argyle station to replace Dehue 46 kV station. Install a 138 kV ring bus using a breaker-and-a-half configuration, with an autotransformer with a 46 kV feed and a distribution transformer with a 12 kV distribution bay. Two 138 kV lines will feed this station (from Logan and Wyoming stations). There will also be a 46 kV feed from this station to Becco station. Distribution will have two 12 kV feeds. Retire Dehue 46 kV station in its entirety |  | AEP (100%) |
| b3348.3 | Bring the Logan – Sprigg #2 138 kV circuit in and out of Tin Branch station by constructing approximately 1.75 miles of new overhead double circuit 138 kV line. Double circuit T3 series lattice towers will be used along with 795,000 cm ACSR 26/7 conductor. One shield wire will be conventional 7 #8 ALUMOWELD, and one shield wire will be optical ground wire (OPGW)  |  | AEP (100%) |
| b3348.4 | Logan-Wyoming No. 1 circuit in and out of the proposed Argyle 46 kV station. Double circuit T3 series lattice towers will be used along with 795,000 cm ACSR 26/7 conductor. One shield wire will be conventional 7 #8 ALUMOWELD, and one shield wire will be OPGW  |  | AEP (100%) |
| b3348.5 | Rebuild approximately 10 miles of 46 kV line between Becco and the new Argyle 46 kV substation. Retire approximately 16 miles of 46 kV line between the new Argyle substation and Chauncey station  |  | AEP (100%) |
| b3348.6 | Adjust relay settings due to new line terminations and retirements at Logan, Wyoming, Sprigg, Becco and Chauncey stations   |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b3350.1 | Replace Bellefonte 69 kV breakers C, G, I, Z, AB and JJ in place. The new 69 kV breakers to be rated at 3000 A 40 kA                             |  | AEP (100%) |
| b3350.2 | Upgrade remote end relaying at Point Pleasant, Coalton and South Point 69 kV substations   |  | AEP (100%) |
| b3351   | Replace the 69 kV in-line switches at Monterey 69 kV substation  |  | AEP (100%) |
| b3354   | Replace circuit breakers '42' and '43' at Bexley station with 3000 A, 40 kA 69 kV breakers (operated at 40 kV), slab, control cables and jumpers |  | AEP (100%) |
| b3355   | Replace circuit breakers 'A' and 'B' at South Side Lima station with 1200 A, 25 kA 34.5 kV breakers, slab, control cables and jumpers            |  | AEP (100%) |
| b3356   | Replace circuit breaker 'H' at West End Fostoria station with 3000 A, 40 kA 69 kV breaker, slab, control cables and jumpers                      |  | AEP (100%) |
| b3357   | Replace circuit breakers 'C', 'E,' and 'L' at Natrium station with 3000 A, 40 kA 69 kV breakers, slab, control cables and jumpers                |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |            |
|-------|---|--|------------|
| b3358 | Install a 69 kV 11.5 MVAR capacitor at Biers Run 69 kV station  |  | AEP (100%) |
| b3359 | Rebuild approximately 2.3 miles of the existing North Van Wert Sw. – Van Wert 69 kV line utilizing 556 ACSR conductor   |  | AEP (100%) |
| b3362 | Rebuild approximately 3.1 miles of the overloaded conductor on the existing Oertels Corner – North Portsmouth 69 kV line utilizing 556 ACSR   |  | AEP (100%) |
| b3731 | Replace 40 kV breaker J at McComb 138 kV station with a new 3000A 40 kA breaker   |  | AEP (100%) |
| b3732 | Install a 6 MVAR, 34.5 kV cap bank at Morgan Run station  |  | AEP (100%) |
| b3733 | Rebuild the 1.8 mile 69 kV line between Summerhill and Willow Grove Switch. Replace 4/0 ACSR conductor with 556 ACSR  |  | AEP (100%) |
| b3734 | Install a 7.7 MVAR, 69 kV cap bank at both Otway station and Rosemount station  |  | AEP (100%) |
| b3735 | Terminate the existing Broadford – Wolf Hills #1 138 kV line into Abingdon 138 kV Station. This line currently bypasses the existing Abingdon 138 kV station; Install two new 138 kV circuit breakers on each new line exit towards Broadford and towards Wolf Hills #1 station; Install one new 138 kV circuit breaker on line exit towards South Abingdon station for standard bus sectionalizing |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |   |  |            |
|----------|---|--|------------|
| b3736.1  | Establish 69 kV bus and new 69 kV line Circuit Breaker at Dorton substation   |  | AEP (100%) |
| b3736.2  | At Breaks substation, reuse 72 kV breaker A as the new 69 kV line breaker   |  | AEP (100%) |
| b3736.3  | Rebuild approximately 16.7 miles Dorton – Breaks 46 kV line to 69 kV line   |  | AEP (100%) |
| b3736.4  | Retire approximately 17.2 miles Cedar Creek – Elwood 46 kV line   |  | AEP (100%) |
| b3736.5  | Retire approximately 6.2 miles Henry Clay – Elwood 46 kV line section   |  | AEP (100%) |
| b3736.6  | Retire Henry Clay 46 kV substation and replace with Poor Bottom 69 kV station. Install a new 0.7 mile double circuit extension to Poor Bottom 69 kV station |  | AEP (100%) |
| b3736.7  | Retire Draffin substation and replace with a new substation. Install a new 0.25 mile double circuit extension to New Draffin substation                     |  | AEP (100%) |
| b3736.8  | Remote end work at Jenkins substation   |  | AEP (100%) |
| b3736.9  | Provide transition fiber to Dorton, Breaks, Poor Bottom, Jenkins and New Draffin 69 kV substations  |  | AEP (100%) |
| b3736.10 | Henry Clay switch station retirement  |  | AEP (100%) |
| b3736.11 | Cedar Creek substation work   |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |   |  |            |
|----------|---|--|------------|
| b3736.12 | Breaks substation 46 kV equipment retirement  |  | AEP (100%) |
| b3736.13 | Retire Pike 29 switch station and Rob Fork switch station   |  | AEP (100%) |
| b3736.14 | Serve Pike 29 and Rob Fork substation customers from nearby 34 kV distribution sources                      |  | AEP (100%) |
| b3736.15 | Poor Bottom 69 kV substation install  |  | AEP (100%) |
| b3736.16 | Henry Clay 46 kV substation retirement  |  | AEP (100%) |
| b3736.17 | New Draffin 69 kV substation install  |  | AEP (100%) |
| b3736.18 | Draffin 46 kV substation retirement   |  | AEP (100%) |
| b3763    | Replace the Jug Street 138 kV breakers M, N, BC, BD, BE, BF, D, H, J, L, BG, BH, BJ, BK with 80 KA breakers |  | AEP (100%) |
| b3764    | Replace the Hyatt 138 kV breakers AB1 and AD1 with 63 kA breakers   |  | AEP (100%) |

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |            |
|---------|--|--|------------|
| b3766.1 | Hayes – New Westville 138 kV line: Build approximately 0.19 miles of 138 kV line to the Indiana/ Ohio State line to connect to AES’s line portion of the Hayes – New Westville 138 kV line with the conductor size 795 ACSR26/7 Drake. This sub-ID includes the cost of line construction and Right of Way (ROW) |  | AEP (100%) |
| b3766.2 | Hayes – Hodgin 138 kV line: Build approximately 0.05 mile of 138 kV line with the conductor size 795 ACSR26/7 Drake. This sub-ID includes the line construction, ROW, and fiber  |  | AEP (100%) |
| b3766.3 | Hayes 138 kV: Build a new 4-138 kV circuit breaker ring bus. This sub-ID includes the cost of new station construction, property purchase, metering, station fiber and the College Corner – Randolph 138 kV line connection  |  | AEP (100%) |

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| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3775.6                            | Perform sag study mitigation work on the Dumont – Stillwell 345 kV line (remove a center-pivot irrigation system from under the line, allowing for the normal and emergency ratings of the line to increase) | <p><b>Reliability Driver:</b><br/>AEP (12.38%) / ComEd (87.62%)</p> <p><b>Market Efficiency Driver:</b><br/>AEC (0.87%) / AEP (24.07%) / APS (3.95%) / ATSI (11.04%) / BGE (4.30%) / Dayton (3.52%) / DEOK (5.35%) / Dominion (20.09%) / DPL (1.73%) / DL (2.11%) / ECP** (0.17%) / EKPC (1.73%) / HTP*** (0.07%) / JCPL (1.98%) / ME (1.63%) / NEPTUNE* (0.43%) / OVEC (0.07%) / PECO (3.59%) / PENELEC (1.68%) / PEPCO (3.91%) / PPL (3.64%) / PSEG (3.93%) / RE (0.14%)</p> |

\*Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

**AEP Service Corporation on behalf of its Affiliate Companies: AEP Appalachian Transmission Company, Inc.; AEP Indiana Michigan Transmission Company; AEP Ohio Transmission Company; AEP West Virginia Transmission Company; Appalachian Power Company; Indiana Michigan Power Company; Kingsport Power Company; Ohio Power Company and Wheeling Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3775.7                            | Upgrade the limiting element at Stillwell or Dumont substation to increase the rating of the Stillwell – Dumont 345 kV line to match conductor rating | <p><b>Reliability Driver:</b><br/>AEP (12.38%) / Dayton (87.62%)</p> <p><b>Market Efficiency Driver:</b><br/>AEC (0.87%) / AEP (24.07%) / APS (3.95%) / ATSI (11.04%) / BGE (4.30%) / Dayton (3.52%) / DEOK (5.35%) / Dominion (20.09%) / DPL (1.73%) / DL (2.11%) / ECP** (0.17%) / EKPC (1.73%) / HTP*** (0.07%) / JCPL (1.98%) / ME (1.63%) / NEPTUNE* (0.43%) / OVEC (0.07%) / PECO (3.59%) / PENELEC (1.68%) / PEPCO (3.91%) / PPL (3.64%) / PSEG (3.93%) / RE (0.14%)</p> |

\*Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

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Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |  |  |  |
|----------|--|--|--|
| b3775.10 | Perform a sag study on the Olive – University Park 345 kV line to increase the operating temperature to 225 F. Remediation work includes two tower replacements on the line. |  | <p><b>Reliability Driver:</b><br/>AEP (100%)</p> <p><b>Market Efficiency Driver:</b><br/>AEC (0.87%) / AEP (24.07%) / APS (3.95%) / ATSI (11.04%) / BGE (4.30%) / Dayton (3.52%) / DEOK (5.35%) / Dominion (20.09%) / DPL (1.73%) / DL (2.11%) / ECP** (0.17%) / EKPC (1.73%) / HTP*** (0.07%) / JCPL (1.98%) / ME (1.63%) / NEPTUNE* (0.43%) / OVEC (0.07%) / PECO (3.59%) / PENELEC (1.68%) / PEPCO (3.91%) / PPL (3.64%) / PSEG (3.93%) / RE (0.14%)</p>                    |
| b3775.11 | Upgrade the limiting element at Stillwell substation to increase the rating of the Stillwell – Dumont 345 kV line to match conductor rating                                  |  | <p><b>Reliability Driver:</b><br/>AEP (12.38%) / ComEd (87.62%)</p> <p><b>Market Efficiency Driver:</b><br/>AEC (0.87%) / AEP (24.07%) / APS (3.95%) / ATSI (11.04%) / BGE (4.30%) / Dayton (3.52%) / DEOK (5.35%) / Dominion (20.09%) / DPL (1.73%) / DL (2.11%) / ECP** (0.17%) / EKPC (1.73%) / HTP*** (0.07%) / JCPL (1.98%) / ME (1.63%) / NEPTUNE* (0.43%) / OVEC (0.07%) / PECO (3.59%) / PENELEC (1.68%) / PEPCO (3.91%) / PPL (3.64%) / PSEG (3.93%) / RE (0.14%)</p> |

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

\*\*\*Hudson Transmission Partners, LLC

**AEP Service Corporation on behalf of its Affiliate Companies: AEP Appalachian Transmission Company, Inc.; AEP Indiana Michigan Transmission Company; AEP Ohio Transmission Company; AEP West Virginia Transmission Company; Appalachian Power Company; Indiana Michigan Power Company; Kingsport Power Company; Ohio Power Company and Wheeling Power Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|                  |  |  |  |
|------------------|--|--|--|
| <p>b3800.100</p> | <p><u>Establish a new 500 kV breaker position for the low-side of the existing 765/500 kV transformer at Cloverdale Station. The new position will be between two new 500 kV circuit breakers located in a new breaker string, electrically converting the 500 kV yard to “double-bus double-breaker” configuration.</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>AEP (100%)</u></p> |
|------------------|--|--|--|

\*Neptune Regional Transmission System, LLC

**AEP Service Corporation on behalf of its Affiliate Companies: AEP Appalachian Transmission Company, Inc.; AEP Indiana Michigan Transmission Company; AEP Ohio Transmission Company; AEP West Virginia Transmission Company; Appalachian Power Company; Indiana Michigan Power Company; Kingsport Power Company; Ohio Power Company and Wheeling Power Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|                         |   |  |   |
|-------------------------|---|--|---|
| <p><u>b3800.121</u></p> | <p><u>Kammer to 502 Junction 500 kV line: Conduct LIDAR Sag Study to assess SE rating and needed upgrades</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPSCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>AEP (21.66%) / APS (0.01%) / BGE (7.14%) / DEOK (0.01%) / Dominion (62.25%) / PEPSCO (8.93%)</u></p> |
|-------------------------|---|--|---|

\*Neptune Regional Transmission System, LLC

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 20 – Virginia Elec. and Power Co.

Version 39.0.0  
Effective January 1, 2024  
(Accepted in Docket No. ER24-786-000)

**SCHEDULE 12 – APPENDIX A**

**(20) Virginia Electric and Power Company**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1698.7                            | Replace Loudoun 230 kV breaker '203052' with 63 kA rating   | Dominion (100%)         |
| b1696.1                            | Replace the Idylwood 230 kV '25112' breaker with 50 kA breaker  | Dominion (100%)         |
| b1696.2                            | Replace the Idylwood 230 kV '209712' breaker with 50 kA 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 63 kA breaker  | Dominion (100%)  |
| b2369                              | Replace the Brambleton 230 kV breaker '213702' with 63 kA breaker  | Dominion (100%)  |
| b2370                              | Replace the Brambleton 230 kV breaker 'H302' with 63 kA 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 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPSCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<del>83.98</del><u>52.14</u>%) / Dominion (<del>16.02</del><u>20.63</u>%) / <u>PEPCO (27.23%)</u></p> |
| b2397                              | Replace the Beaumeade 230 kV breaker '2079T2116' with 63 kA  | Dominion (100%)  |
| b2398                              | Replace the Beaumeade 230 kV breaker '2079T2130' with 63 kA  | Dominion (100%)  |
| b2399                              | Replace the Beaumeade 230 kV breaker '208192' with 63 kA   | Dominion (100%)  |
| b2400                              | Replace the Beaumeade 230 kV breaker '209592' with 63 kA   | Dominion (100%)  |
| b2401                              | Replace the Beaumeade 230 kV breaker '211692' with 63 kA   | Dominion (100%)  |
| b2402                              | Replace the Beaumeade 230 kV breaker '227T2130' with 63 kA   | 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 Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)                                       |
|------------------------------------|---|---|
| b2403                              | Replace the Beaumeade 230 kV breaker '274T2130' with 63 kA  | Dominion (100%)   |
| b2404                              | Replace the Beaumeade 230 kV breaker '227T2095' with 63 kA  | Dominion (100%)   |
| b2405                              | Replace the Pleasant view 230 kV breaker '203T274' with 63 kA   | 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 50 kA   | Dominion (100%)   |
| b2443.2                            | Replace the Ox 230 kV breaker '206342' with 63 kA breaker   | Dominion (100%)   |
| b2443.3                            | Glebe – Station C PAR   | <b>DFAX Allocation:</b><br>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 63 kA 230 kV breakers with 19 80 kA 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 Transmission Enhancements | 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 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.)

| Required Transmission 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 | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>           Dominion (100%)</p> |
| 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 50 kA breaker   | Dominion (100%)  |
| b2543                              | Replace the Loudoun 500 kV ‘H2T584’ breaker with a 50 kA 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%)  |

\*Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2582                              | Rebuild the Elmont – Cunningham 500 kV line   | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP<br/>           (<del>13.68</del><u>14.29</u>%) / APS<br/>           (<del>5.76</del><u>5.82</u>%) / ATSI<br/>           (<del>8.04</del><u>7.49</u>%) / BGE<br/>           (<del>4.11</del><u>4.01</u>%) / ComEd<br/>           (<del>13.39</del><u>14.06</u>%) / Dayton<br/>           (<del>2.12</del><u>2.03</u>%) / DEOK<br/>           (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%)<br/>           / DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/>           (<del>13.32</del><u>13.89</u>%) / EKPC<br/>           (<del>1.89</del><u>2.35</u>%) / JCPL<br/>           (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%)<br/>           / NEPTUNE* (0.42%) / OVEC<br/>           (<del>0.08</del><u>0.06</u>%) / PECO<br/>           (<del>5.40</del><u>5.11</u>%) / PENELEC<br/>           (<del>1.78</del><u>1.73</u>%) / PEPSCO<br/>           (<del>3.67</del><u>3.68</u>%) / PPL<br/>           (<del>4.72</del><u>4.43</u>%) / PSEG<br/>           (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> <u>APS (6.21%)</u> / BGE<br/>           (<del>5.71</del><u>4.78</u>%) / Dominion<br/>           (<del>84.43</del><u>81.73</u>%) / PEPSCO<br/>           (<del>9.86</del><u>7.28</u>%)</p> |
| b2583                              | Install 500 kV breaker at Ox Substation to remove Ox Tx#1 from H1T561 breaker failure outage  | Dominion (100%)   |
| b2584                              | Relocate the Bremono load (transformer #5) to #2028 (Bremono-Charlottesville 230 kV) line and Cartersville distribution station to #2027 (Bremono-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%) |
|-------|---|--|-----------------|

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

Required Transmission Enhancements    Annual 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 Transmission Enhancements    Annual 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 Transmission Enhancements | Annual 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 Transmission Enhancements | Annual 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%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2665                              | Rebuild the Cunningham – Dooms 500 kV line  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (<u>10.07</u>%) / BGE (<del>9.35</del><u>6.58</u>%) / Dominion (<del>73.04</del><u>72.51</u>%) / PEPCO (<del>17.61</del><u>10.84</u>%)</p> |
| b2686                              | Pratts Area Improvement   | Dominion (100%)   |
| b2686.1                            | Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW | Dominion (100%)   |
| b2686.2                            | 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%)   |
| b2686.4                            | Replace the Remington CT 230 kV breaker “2114T2155” with a 63 kA breaker                        | 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<br>– Somerset 115 kV circuit  |  | Dominion (100%) |
| b2686.14 | Upgrading sections of the Mitchell<br>– Mt. Run 115 kV circuit |  | Dominion (100%) |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| 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 50 kA breaker   | Dominion (100%)   |
| b2729                              | Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorn, 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%) |

\* Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2744                              | Rebuild the Carson – Rogers Rd 500 kV circuit  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP<br/>                     (<del>13.68</del><u>14.29</u>%) / APS<br/>                     (<del>5.76</del><u>5.82</u>%) / ATSI<br/>                     (<del>8.04</del><u>7.49</u>%) / BGE<br/>                     (<del>4.11</del><u>4.01</u>%) / ComEd<br/>                     (<del>13.39</del><u>14.06</u>%) / Dayton<br/>                     (<del>2.12</del><u>2.03</u>%) / DEOK<br/>                     (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%)<br/>                     / DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/>                     (<del>13.32</del><u>13.89</u>%) / EKPC<br/>                     (<del>1.89</del><u>2.35</u>%) / JCPL<br/>                     (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%)<br/>                     / NEPTUNE* (0.42%) / OVEC<br/>                     (<del>0.08</del><u>0.06</u>%) / PECO<br/>                     (<del>5.40</del><u>5.11</u>%) / PENELEC<br/>                     (<del>1.78</del><u>1.73</u>%) / PEPCO<br/>                     (<del>3.67</del><u>3.68</u>%) / PPL<br/>                     (<del>4.72</del><u>4.43</u>%) / PSEG<br/>                     (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     BGE (<del>4.27</del>%) / Dominion<br/>                     (<del>90.13</del><u>100.00</u>%) / PEPCO<br/>                     (<del>5.60</del>%)</p> |
| 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%)  |

\*Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

| Required Transmission 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 500 kV           | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP<br/>           (<del>13.68</del><u>14.29</u>%) / APS<br/>           (<del>5.76</del><u>5.82</u>%) / ATSI<br/>           (<del>8.04</del><u>7.49</u>%) / BGE<br/>           (<del>4.11</del><u>4.01</u>%) / ComEd<br/>           (<del>13.39</del><u>14.06</u>%) / Dayton<br/>           (<del>2.12</del><u>2.03</u>%) / DEOK<br/>           (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%)<br/>           / DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/>           (<del>13.32</del><u>13.89</u>%) / EKPC<br/>           (<del>1.89</del><u>2.35</u>%) / JCPL<br/>           (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%)<br/>           / NEPTUNE* (0.42%) / OVEC<br/>           (<del>0.08</del><u>0.06</u>%) / PECO<br/>           (<del>5.40</del><u>5.11</u>%) / PENELEC<br/>           (<del>1.78</del><u>1.73</u>%) / PEPSCO<br/>           (<del>3.67</del><u>3.68</u>%) / PPL<br/>           (<del>4.72</del><u>4.43</u>%) / PSEG<br/>           (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>           Dominion (100%)</p> |

|       |  |  |  |
|-------|--|--|--|
| b2759 | Rebuild Line #550 Mt. Storm<br>– Valley 500 kV |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP<br/> (<del>13.68</del><u>14.29</u>%) / APS<br/> (<del>5.76</del><u>5.82</u>%) / ATSI<br/> (<del>8.04</del><u>7.49</u>%) / BGE<br/> (<del>4.11</del><u>4.01</u>%) / ComEd<br/> (<del>13.39</del><u>14.06</u>%) / Dayton<br/> (<del>2.12</del><u>2.03</u>%) / DEOK<br/> (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%)<br/> / DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/> (<del>13.32</del><u>13.89</u>%) / EKPC<br/> (<del>1.89</del><u>2.35</u>%) / JCPL<br/> (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%)<br/> / NEPTUNE* (0.42%) / OVEC<br/> (<del>0.08</del><u>0.06</u>%) / PECO<br/> (<del>5.40</del><u>5.11</u>%) / PENELEC<br/> (<del>1.78</del><u>1.73</u>%) / PEPCO<br/> (<del>3.67</del><u>3.68</u>%) / PPL<br/> (<del>4.72</del><u>4.43</u>%) / PSEG<br/> (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> APS (<del>47.87</del><u>40.03</u>%) / DL<br/> (<del>1.02</del><u>3.91</u>%) / Dominion<br/> (<del>9.20</del><u>49.41</u>%) / EKPC<br/> (<del>13.57</del><u>6.65</u>%) / <del>PEPCO</del><br/> (<del>28.34</del>%)</p> |
|-------|--|--|--|

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission 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 115 kV                   | Dominion (100%)         |
| b2815                              | Build a new Pinewood 115 kV switching station at the tap serving North Doswell DP with a 115 kV four breaker ring bus  | Dominion (100%)         |
| b2842                              | Update the nameplate for Mount Storm 500 kV "57272" to be 50 kA breaker  | Dominion (100%)         |
| b2843                              | Replace the Mount Storm 500 kV "G2TY" with 50 kA breaker   | Dominion (100%)         |
| b2844                              | Replace the Mount Storm 500 kV "G2TZ" with 50 kA breaker   | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2845                              | Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50 kA breaker  | Dominion (100%)         |
| b2846                              | Update the nameplate for Mount Storm 500 kV "SX172" to be 50 kA breaker   | Dominion (100%)         |
| b2847                              | Update the nameplate for Mount Storm 500 kV "Y72" to be 50 kA breaker   | Dominion (100%)         |
| b2848                              | Replace the Mount Storm 500 kV "Z72" with 50 kA 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 Transmission 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 | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.76</del>5.82%) / ATSI (<del>8.04</del>7.49%) / BGE (<del>4.11</del>4.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.12</del>2.03%) / DEOK (<del>3.25</del>3.21%) / DL (<del>1.71</del>1.59%) / DPL (<del>2.60</del>2.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.89</del>2.35%) / JCPL (<del>3.86</del>3.59%) / ME (<del>1.90</del>1.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del>0.06%) / PECO (<del>5.40</del>5.11%) / PENELEC (<del>1.78</del>1.73%) / PEPSCO (<del>3.67</del>3.68%) / PPL (<del>4.72</del>4.43%) / PSEG (<del>6.39</del>5.99%) / RE (<del>0.26</del>0.24%)</p> <p><b>DFAX Allocation:</b><br/> Dominion (100%)</p> |
| 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  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                       | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2960.1                            | Replace fixed series capacitors on 500 kV Line #547 at Lexington | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP<br/>           (<del>13.68</del><u>14.29</u>%) / APS<br/>           (<del>5.76</del><u>5.82</u>%) / ATSI<br/>           (<del>8.04</del><u>7.49</u>%) / BGE<br/>           (<del>4.11</del><u>4.01</u>%) / ComEd<br/>           (<del>13.39</del><u>14.06</u>%) / Dayton<br/>           (<del>2.12</del><u>2.03</u>%) / DEOK<br/>           (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%)<br/>           / DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/>           (<del>13.32</del><u>13.89</u>%) / EKPC<br/>           (<del>1.89</del><u>2.35</u>%) / JCPL<br/>           (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%)<br/>           / NEPTUNE* (0.42%) / OVEC<br/>           (<del>0.08</del><u>0.06</u>%) / PECO<br/>           (<del>5.40</del><u>5.11</u>%) / PENELEC<br/>           (<del>1.78</del><u>1.73</u>%) / PEPCO<br/>           (<del>3.67</del><u>3.68</u>%) / PPL<br/>           (<del>4.72</del><u>4.43</u>%) / PSEG<br/>           (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> <del>BGE (40.11%) / DEOK</del><br/>           (<del>0.71</del><u>7.57</u>%) / Dominion<br/>           (<del>9.30</del><u>8.85</u>%) / EKPC<br/>           (<del>0.43</del><u>3.58</u>%) / <del>PEPCO</del><br/>           (<u>49.45</u>%)</p> |

\*Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2960.2                            | Replace fixed series capacitors on 500 kV Line #548 at Valley  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> <del>BGE (3.77%)</del> / DEOK (<del>8.84</del><u>6.54</u>%) / Dominion (<del>78.84</del><u>91.29</u>%) / EKPC (<del>3.90</del><u>2.17</u>%) / <del>PEPCO (4.65%)</del></p> |
| 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 63 kA breaker   | Dominion (100%)   |
| b2962.2                            | Replace the NIVO 230 kV breaker “2116T2130” with 63 kA 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%)   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2978                              | Install 2-125 MVAR STATCOMs at Rawlings and 1-125 MVAR STATCOM at Clover 500 kV substations   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del><u>14.29</u>%) / APS (<del>5.76</del><u>5.82</u>%) / ATSI (<del>8.04</del><u>7.49</u>%) / BGE (<del>4.11</del><u>4.01</u>%) / ComEd (<del>13.39</del><u>14.06</u>%) / Dayton (<del>2.12</del><u>2.03</u>%) / DEOK (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%) / DPL (<del>2.60</del><u>2.55</u>%) / Dominion (<del>13.32</del><u>13.89</u>%) / EKPC (<del>1.89</del><u>2.35</u>%) / JCPL (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del><u>0.06</u>%) / PECO (<del>5.40</del><u>5.11</u>%) / PENELEC (<del>1.78</del><u>1.73</u>%) / PEPSCO (<del>3.67</del><u>3.68</u>%) / PPL (<del>4.72</del><u>4.43</u>%) / PSEG (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |
| 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

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b2989                              | Install a second 230/115 kV Transformer (224 MVA) approximately 1 mile north of Bremono and tie 230 kV Line #2028 (Bremono – Charlottesville) and 115 kV Line #91 (Bremono - 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 Bremono 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 Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3019                              | Rebuild 500 kV Line #552<br>Bristers to Chancellor – 21.6<br>miles long        | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP<br/>           (<del>13.68</del><u>14.29</u>%) / APS<br/>           (<del>5.76</del><u>5.82</u>%) / ATSI<br/>           (<del>8.04</del><u>7.49</u>%) / BGE<br/>           (<del>4.11</del><u>4.01</u>%) / ComEd<br/>           (<del>13.39</del><u>14.06</u>%) / Dayton<br/>           (<del>2.12</del><u>2.03</u>%) / DEOK<br/>           (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%)<br/>           / DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/>           (<del>13.32</del><u>13.89</u>%) / EKPC<br/>           (<del>1.89</del><u>2.35</u>%) / JCPL<br/>           (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%)<br/>           / NEPTUNE* (0.42%) / OVEC<br/>           (<del>0.08</del><u>0.06</u>%) / PECO<br/>           (<del>5.40</del><u>5.11</u>%) / PENELEC<br/>           (<del>1.78</del><u>1.73</u>%) / PEPCO<br/>           (<del>3.67</del><u>3.68</u>%) / PPL<br/>           (<del>4.72</del><u>4.43</u>%) / PSEG<br/>           (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>           BGE (<del>6.89</del>%) / Dominion<br/>           (<del>85.01</del><u>100.00</u>%) / PEPCO<br/>           (<del>8.10</del>%)</p> |
| b3019.1                            | Update the nameplate for<br>Morrisville 500 kV breaker<br>“H1T594” to be 50 kA | Dominion (100%)  |
| b3019.2                            | Update the nameplate for<br>Morrisville 500 kV breaker<br>“H1T545” to be 50 kA | Dominion (100%)  |

\*Neptune Regional Transmission System, LLC

Virginia Electric and Power Company (cont.)

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3020                              | Rebuild 500 kV Line #574<br>Ladysmith to Elmont – 26.2<br>miles long | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP<br/>           (<del>13.68</del><u>14.29</u>%) / APS<br/>           (<del>5.76</del><u>5.82</u>%) / ATSI<br/>           (<del>8.04</del><u>7.49</u>%) / BGE<br/>           (<del>4.11</del><u>4.01</u>%) / ComEd<br/>           (<del>13.39</del><u>14.06</u>%) / Dayton<br/>           (<del>2.12</del><u>2.03</u>%) / DEOK<br/>           (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%)<br/>           / DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/>           (<del>13.32</del><u>13.89</u>%) / EKPC<br/>           (<del>1.89</del><u>2.35</u>%) / JCPL<br/>           (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%)<br/>           / NEPTUNE* (0.42%) / OVEC<br/>           (<del>0.08</del><u>0.06</u>%) / PECO<br/>           (<del>5.40</del><u>5.11</u>%) / PENELEC<br/>           (<del>1.78</del><u>1.73</u>%) / PEPCO<br/>           (<del>3.67</del><u>3.68</u>%) / PPL<br/>           (<del>4.72</del><u>4.43</u>%) / PSEG<br/>           (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>           APS (16.36%) / DEOK<br/>           (11.61%) / Dominion (51.27%)<br/>           / EKPC (5.30%) / PEPCO<br/>           (15.46%)</p> |

|       |   |  |  |
|-------|---|--|--|
| b3021 | Rebuild 500 kV Line #581 Ladysmith to Chancellor – 15.2 miles long  |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP<br/> (<del>13.68</del><u>14.29</u>%) / APS<br/> (<del>5.76</del><u>5.82</u>%) / ATSI<br/> (<del>8.04</del><u>7.49</u>%) / BGE<br/> (<del>4.11</del><u>4.01</u>%) / ComEd<br/> (<del>13.39</del><u>14.06</u>%) / Dayton<br/> (<del>2.12</del><u>2.03</u>%) / DEOK<br/> (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%)<br/> / DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/> (<del>13.32</del><u>13.89</u>%) / EKPC<br/> (<del>1.89</del><u>2.35</u>%) / JCPL<br/> (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%)<br/> / NEPTUNE* (0.42%) / OVEC<br/> (<del>0.08</del><u>0.06</u>%) / PECO<br/> (<del>5.40</del><u>5.11</u>%) / PENELEC<br/> (<del>1.78</del><u>1.73</u>%) / PEPSCO<br/> (<del>3.67</del><u>3.68</u>%) / PPL<br/> (<del>4.72</del><u>4.43</u>%) / PSEG<br/> (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/> Dominion (<del>92.28</del><u>100.00</u>%)<br/> PEPSCO (<del>7.72</del>%)</p> |
| b3026 | Reconductor Line #274 (Pleasant View – Ashburn – Beaumeade 230 kV) with a minimum rating of 1200 MVA. Also upgrade terminal equipment |  | Dominion (100%)  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | 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 50 kA breaker   | Dominion (100%)         |
| b3027.4                            | Update the nameplate for Ladysmith 500 kV breaker "H1T575" to be 50 kA breaker   | Dominion (100%)         |
| b3027.5                            | Update the nameplate for Ladysmith 500 kV breaker "568T574" (will be renumbered as "H2T568") to be 50 kA 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.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | 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%)         |
| b3096                              | Rebuild 230 kV line No.2063 (Clifton – Ox) and part of 230 kV line No.2164 (Clifton – Keene Mill) with double circuit steel structures using double circuit conductor at current 230 kV northern Virginia standards with a minimum rating of 1200 MVA | Dominion (100%)         |
| b3097                              | Rebuild 4 miles of 115 kV Line #86 between Chesterfield and Centralia to current standards with a minimum summer emergency rating of 393 MVA  | Dominion (100%)         |
| b3098                              | Rebuild 9.8 miles of 115 kV Line #141 between Balcony Falls and Skimmer and 3.8 miles of 115 kV Line #28 between Balcony Falls and Cushaw to current standards with a minimum rating of 261 MVA   | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3098.1                            | Rebuild Balcony Falls 115 kV substation   | Dominion (100%)         |
| b3110.1                            | Rebuild Line #2008 between Loudoun to Dulles Junction using single circuit conductor at current 230 kV northern Virginia standards with minimum summer ratings of 1200 MVA. Cut and loop Line #265 (Clifton – Sully) into Bull Run substation. Add three (3) 230 kV breakers at Bull Run to accommodate the new line and upgrade the substation | Dominion (100%)         |
| b3110.2                            | Replace the Bull Run 230 kV breakers “200T244” and “200T295” with 50 kA breakers  | Dominion (100%)         |
| b3110.3                            | Replace the Clifton 230 kV breakers “201182” and “XT2011” with 63 kA breakers   | Dominion (100%)         |
| b3113                              | Rebuild approximately 1 mile of 115 kV Lines #72 and #53 to current standards with a minimum summer emergency rating of 393 MVA. The resulting summer emergency rating of Line #72 segment from Brown Boveri to Bellwood is 180 MVA. There is no change to Line #53 ratings   | Dominion (100%)         |
| b3114                              | Rebuild the 18.6 mile section of 115 kV Line #81 which includes 1.7 miles of double circuit Line #81 and 230 kV Line #2056. This segment of Line #81 will be rebuilt to current standards with a minimum rating of 261 MVA. Line #2056 rating will not change   | Dominion (100%)         |
| b3121                              | Rebuild Clubhouse – Lakeview 230 kV Line #254 with single-circuit wood pole equivalent structures at the current 230 kV standard with a minimum rating of 1047 MVA  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3122                              | Rebuild Hathaway – Rocky Mount (Duke Energy Progress) 230 kV Line #2181 and Line #2058 with double circuit steel structures using double circuit conductor at current 230 kV standards with a minimum rating of 1047 MVA  | Dominion (100%)         |
| b3161.1                            | Split Chesterfield-Plaza 115 kV Line No. 72 by rebuilding the Brown Boveri tap line as double circuit loop in-and-out of the Brown Boveri Breaker station   | Dominion (100%)         |
| b3161.2                            | Install a 115 kV breaker at the Brown Boveri Breaker station. Site expansion is required to accommodate the new layout  | Dominion (100%)         |
| b3162                              | Acquire land and build a new 230 kV switching station (Stevensburg) with a 224 MVA, 230/115 kV transformer. Gordonsville-Remington 230 kV Line No. 2199 will be cut and connected to the new station. Remington-Mt. Run 115 kV Line No.70 and Mt. Run-Oak Green 115 kV Line No. 2 will also be cut and connected to the new station | Dominion (100%)         |
| b3211                              | Rebuild the 1.3 mile section of 500 kV Line No. 569 (Loudoun – Morrisville) with single-circuit 500 kV structures at the current 500 kV standard. This will increase the rating of the line to 3424 MVA   | Dominion (100%)         |
| b3213                              | Install 2nd Chickahominy 500/230 kV transformer   | Dominion (100%)         |
| b3213.1                            | Replace the eight (8) Chickahominy 230 kV breakers with 63 kA breakers: “SC122”, “205022”, “209122”, “210222-2”, “28722”, “H222”, “21922” and “287T2129”  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3223.1                            | Install a second 230 kV circuit with a minimum summer emergency rating of 1047 MVA between Lanexa and Northern Next substations. The second circuit will utilize the vacant arms on the double-circuit structures that are being installed on Line #224 (Lanexa – Northern Next) as part of the End-of-Life rebuild project (b3089)   | Dominion (100%)         |
| b3223.2                            | Expand the Northern Neck terminal from a 230 kV, 4-breaker ring bus to a 6-breaker ring bus   | Dominion (100%)         |
| b3223.3                            | Expand the Lanexa terminal from a 6-breaker ring bus to a breaker-and-a-half arrangement  | Dominion (100%)         |
| b3246.1                            | Convert 115 kV Line #172 Liberty – Lomar and 115 kV Line #197 Cannon Branch – Lomar to 230 kV to provide a new 230 kV source between Cannon Branch and Liberty. The majority of 115 kV Line #172 Liberty – Lomar and Line #197 Cannon Branch – Lomar is adequate for 230 kV operation. Rebuild 0.36 mile segment between the Lomar and Cannon Branch junction. Lines will have a summer rating of 1047MVA/1047MVA (SN/SE) | Dominion (100%)         |
| b3246.2                            | Perform substation work for the 115 kV to 230 kV line conversion at Liberty, Wellington, Godwin, Pioneer, Sandlot and Cannon Branch   | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3246.3                            | Extend 230 kV Line #2011 Cannon Branch – Clifton to Winters Branch by removing the existing Line #2011 termination at Cannon Branch and extending the line to Brickyard creating 230 kV Line #2011 Brickyard - Clifton. Extend a new 230 kV line between Brickyard and Winters Branch with a summer rating of 1572MVA/1572MVA (SN/SE) | Dominion (100%)  |
| b3246.4                            | Perform substation work at Cannon Branch, Brickyard and Winters Branch for the 230 kV Line #2011 Cannon Branch – Clifton extension  | Dominion (100%)  |
| b3246.5                            | Replace the Gainesville 230 kV 40 kA breaker “216192” with a 50 kA breaker  | Dominion (100%)  |
| b3247                              | Replace 13 towers with galvanized steel towers on Doubs – Goose Creek 500 kV. Reconductor 3 mile section with three (3) 1351.5 ACSR 45/7. Upgrade line terminal equipment at Goose Creek substation to support the 500 kV line rebuild  | <p><b>Load-Ratio Share Allocation:</b><br/>           AEC (1.65%) / AEP<br/>           (<del>13.68</del><u>14.29</u>%) / APS<br/>           (<del>5.76</del><u>5.82</u>%) / ATSI<br/>           (<del>8.04</del><u>7.49</u>%) / BGE<br/>           (<del>4.11</del><u>4.01</u>%) / ComEd<br/>           (<del>13.39</del><u>14.06</u>%) / Dayton<br/>           (<del>2.12</del><u>2.03</u>%) / DEOK<br/>           (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%)<br/>           / DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/>           (<del>13.32</del><u>13.89</u>%) / EKPC<br/>           (<del>1.89</del><u>2.35</u>%) / JCPL<br/>           (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%)<br/>           / NEPTUNE* (0.42%) / OVEC<br/>           (<del>0.08</del><u>0.06</u>%) / PECO<br/>           (<del>5.40</del><u>5.11</u>%) / PENELEC<br/>           (<del>1.78</del><u>1.73</u>%) / PEPCO<br/>           (<del>3.67</del><u>3.68</u>%) / PPL<br/>           (<del>4.72</del><u>4.43</u>%) / PSEG<br/>           (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>           Dominion (100%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3262                              | Install a second 115 kV 33.67 MVAR cap bank at Harrisonburg substation along with a 115 kV breaker   | Dominion (100%)         |
| b3263                              | Cut existing 115 kV Line #5 between Bremono and Cunningham substations and loop in and out of Fork Union substation  | Dominion (100%)         |
| b3264                              | Install 40 kA breaker at Stuarts Draft 115 kV station and sectionalize the Doom to Dupont-Waynesboro 115 kV Line #117 into two 115 kV lines  | Dominion (100%)         |
| b3268                              | Build a switching station at the junction of 115 kV line #39 and 115 kV line #91 with a 115 kV capacitor bank. The switching station will be built with 230 kV structures but will operate at 115 kV | Dominion (100%)         |
| b3300                              | Reconductor 230 kV Line #2172 from Brambleton to Evergreen Mills along with upgrading the line leads at Brambleton to achieve a summer emergency rating of 1574 MVA                                  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3301                              | Reconductor 230 kV Line #2210 from Brambleton to Evergreen Mills along with upgrading the line leads at Brambleton to achieve a summer emergency rating of 1574 MVA  | Dominion (100%)         |
| b3302                              | Reconductor 230 kV Line #2213 from Cabin Run to Yardley Ridge along with upgrading the line leads at Yardley to achieve a summer emergency rating of 1574 MVA  | Dominion (100%)         |
| b3303.1                            | Extend a new single circuit 230 kV Line #9250 from Farmwell substation to Nimbus substation  | Dominion (100%)         |
| b3303.2                            | Remove Beaumeade 230 kV Line #2152 line switch   | Dominion (100%)         |
| b3304                              | Midlothian area improvements for 300 MW load drop relief   | Dominion (100%)         |
| b3304.1                            | Cut 230 kV Line #2066 at Trabue junction   | Dominion (100%)         |
| b3304.2                            | Reconductor idle 230 kV Line #242 (radial from Midlothian to Trabue junction) to allow a minimum summer rating of 1047 MVA and connect to the section of 230 kV Line #2066 between Trabue junction and Winterpock, re-number 230 kV Line #242 structures to Line #2066 | Dominion (100%)         |
| b3304.3                            | Use the section of idle 115 kV Line #153, between Midlothian and Trabue junction to connect to the section of (former) 230 kV Line #2066 between Trabue junction and Trabue to create new Midlothian – Trabue lines with new line numbers #2218 and #2219              | Dominion (100%)         |
| b3304.4                            | Create new line terminations at Midlothian for the new Midlothian – Trabue 230 kV lines  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  |  | Responsible Customer(s) |
|------------------------------------|---|--|-------------------------|
| b3684                              | Rebuild 12.4 miles of 115 kV line from Earleys to Kelford with a summer emergency rating of 262 MVA. Replace structures as needed to support the new conductor. Upgrade breaker switch 13668 at Earleys from 1200 A to 2000 A   |  | Dominion (100%)         |
| b3685                              | Install a 33 MVAR cap bank at Cloud 115 kV bus along with a 115 kV breaker. Add 115 kV circuit breaker for 115 kV Line #38  |  | Dominion (100%)         |
| b3686                              | Purchase land close to the bifurcation point of 115 kV Line #4 (where the line is split into two sections) and build a new 115 kV switching station called Duncan Store. The new switching station will require space for an ultimate transmission interconnection consisting of a 115 kV six-breaker ring bus (with three breakers installed initially)                              |  | Dominion (100%)         |
| b3687                              | Rebuild approximately 15.1 miles line segment between Bristers and Minnieville D.P. with 2-768 ACSS and 4000 A supporting equipment from Bristers to Ox to allow for future 230 kV capability of 115 kV Line #183. The continuous summer normal rating will be 523 MVA for line Ox – Minnieville. The continuous summer normal rating will be 786 MVA for Minnieville – Bristers line |  | Dominion (100%)         |
| b3689.1                            | Reconductor approximately 24.42 miles of 230 kV Line #2114 Remington CT– Elk Run – Gainesville to achieve a summer rating of 1574 MVA by fully reconductoring the line and upgrading the wave trap and substation conductor at Remington CT and Gainesville 230 kV stations   |  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3689.2                            | Replace 230 kV breakers SC102, H302, H402 and 218302 at Brambleton substation with 4000A 80 kA breakers and associated equipment including breaker leads as necessary to address breaker duty issues identified in short circuit analysis | Dominion (100%)  |
| b3690                              | Reconductor approximately 1.07 miles of 230 kV Line #2008 segment from Cub Run to Walney to achieve a summer rating of 1574 MVA. Replace line switch 200826 with a 4000A switch   | Dominion (100%)  |
| b3691                              | Reconductor approximately 1.4 miles of 230 kV Line #2141 from Lakeview to Carolina to achieve a summer rating of 1047 MVA   | Dominion (100%)  |
| b3692                              | Rebuild approximately 27.7 miles of 500 kV transmission line from Elmont to Chickahominy with current 500 kV standards construction practices to achieve a summer rating of 4330 MVA  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (<del>13.68</del>14.29%) / APS (<del>5.76</del>5.82%) / ATSI (<del>8.04</del>7.49%) / BGE (<del>4.11</del>4.01%) / ComEd (<del>13.39</del>14.06%) / Dayton (<del>2.12</del>2.03%) / DEOK (<del>3.25</del>3.21%) / DL (<del>1.71</del>1.59%) / DPL (<del>2.60</del>2.55%) / Dominion (<del>13.32</del>13.89%) / EKPC (<del>1.89</del>2.35%) / JCPL (<del>3.86</del>3.59%) / ME (<del>1.90</del>1.81%) / NEPTUNE* (0.42%) / OVEC (<del>0.08</del>0.06%) / PECO (<del>5.40</del>5.11%) / PENELEC (<del>1.78</del>1.73%) / PEPCO (<del>3.67</del>3.68%) / PPL (<del>4.72</del>4.43%) / PSEG (<del>6.39</del>5.99%) / RE (<del>0.26</del>0.24%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |

\*Neptune Regional Transmission System, LLC



**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3693                              | Expand substation and install approximately 294 MVAR cap bank at 500 kV Lexington substation along with a 500 kV breaker. Adjust the tap positions associated with the two 230/69 kV transformers at Harrisonburg to neutral position and lock them   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP<br/>                     (<del>13.68</del><u>14.29</u>%) / APS<br/>                     (<del>5.76</del><u>5.82</u>%) / ATSI<br/>                     (<del>8.04</del><u>7.49</u>%) / BGE<br/>                     (<del>4.11</del><u>4.01</u>%) / ComEd<br/>                     (<del>13.39</del><u>14.06</u>%) / Dayton<br/>                     (<del>2.12</del><u>2.03</u>%) / DEOK<br/>                     (<del>3.25</del><u>3.21</u>%) / DL (<del>1.71</del><u>1.59</u>%)<br/>                     / DPL (<del>2.60</del><u>2.55</u>%) / Dominion<br/>                     (<del>13.32</del><u>13.89</u>%) / EKPC<br/>                     (<del>1.89</del><u>2.35</u>%) / JCPL<br/>                     (<del>3.86</del><u>3.59</u>%) / ME (<del>1.90</del><u>1.81</u>%)<br/>                     / NEPTUNE* (0.42%) / OVEC<br/>                     (<del>0.08</del><u>0.06</u>%) / PECO<br/>                     (<del>5.40</del><u>5.11</u>%) / PENELEC<br/>                     (<del>1.78</del><u>1.73</u>%) / PEPSCO<br/>                     (<del>3.67</del><u>3.68</u>%) / PPL<br/>                     (<del>4.72</del><u>4.43</u>%) / PSEG<br/>                     (<del>6.39</del><u>5.99</u>%) / RE (<del>0.26</del><u>0.24</u>%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |
| b3694.1                            | Convert 115 kV Line #29 Aquia Harbour to Possum Point to 230 kV (Extended Line #2104) and swap Line #2104 and converted Line #29 at Aquia Harbour backbone termination. Upgrade terminal equipment at Possum Point to terminate converted Line #29 (now extended line #2104). (Line #29 from Fredericksburg to Aquia Harbour is being rebuilt under baseline b2981 to 230 kV standards) | <p>Dominion (100%)</p>  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b3694.2                            | Upgrade Aquia Harbour terminal equipment to not limit 230 kV Line #9281 conductor rating   |  | Dominion (100%)         |
| b3694.3                            | Upgrade Fredericksburg terminal equipment by rearranging 230 kV bus configuration to terminate converted Line #29 (now becoming 9281). The project will add a new breaker at the 230 kV bay and reconfigure line termination of 230 kV Line #2157, #2090 and #2083   |  | Dominion (100%)         |
| b3694.4                            | Reconductor/rebuild approximately 7.6 miles of 230 kV Line #2104 Cranes Corner – Stafford to achieve a summer rating of 1047 MVA.<br>Reconductor/rebuild approximately 0.34 miles of 230 kV Line #2104 Stafford – Aquia Harbour to achieve a summer rating of 1047 MVA.<br>Upgrade terminal equipment at Cranes Corner to not limit the new conductor rating |  | Dominion (100%)         |
| b3694.5                            | Upgrade wave trap and line leads at 230 kV Line #2090 Ladysmith CT terminal to achieve 4000A rating  |  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |  |  |                 |
|----------|--|--|-----------------|
| b3694.6  | Upgrade Fuller Road substation to feed Quantico substation via 115 kV radial line. Install four-breaker ring bus and break 230 kV Line #252 into two new lines: 1) Line #252 between Aquia Harbour and Fuller Road and 2) Line #9282 between Fuller Road and Possum Point. Install a 230/115 kV transformer which will serve Quantico substation |  | Dominion (100%) |
| b3694.7  | Energize in-service spare 500/230 kV Carson Transformer #1   |  | Dominion (100%) |
| b3694.8  | Partial wreck and rebuild 10.34 miles of 230 kV Line #249 Carson – Locks to achieve a minimum summer emergency rating of 1047 MVA. Upgrade terminal equipment at Carson and Locks stations to not limit the new conductor rating   |  | Dominion (100%) |
| b3694.9  | Wreck and rebuild 5.4 miles of 115 kV Line #100 Locks – Harrowgate to achieve a minimum summer emergency rating of 393 MVA. Upgrade terminal equipment at Locks and Harrowgate stations to not limit the new conductor rating and perform Line #100 Chesterfield terminal relay work   |  | Dominion (100%) |
| b3694.10 | Reconductor approximately 2.9 miles of 230 kV Line #211 Chesterfield – Hopewell to achieve a minimum summer emergency rating of 1046 MVA   |  | Dominion (100%) |
| b3694.11 | Reconductor approximately 2.9 miles of 230 kV Line #228 Chesterfield – Hopewell to achieve a minimum summer emergency rating of 1046 MVA   |  | Dominion (100%) |
| b3694.12 | Upgrade equipment at Chesterfield 230 kV substation to not limit ratings on Line #211 and #228   |  | Dominion (100%) |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3694.13                           | Upgrade equipment at Hopewell 230 kV substation to not limit ratings on Line #211 and #228  | Dominion (100%)   |
| b3702                              | Install one 13.5 Ohm series reactor to control the power flow on the 230 kV Line #2054 from Charlottesville substation to Proffit Rd. 230 kV line   | AEC (1.59%) / APS (8.85%) / ATSI (5.54%) / BGE (10.79%) / ComEd (1.86%) / Dayton (0.21%) / DEOK (1.16%) / Dominion (18.99%) / DPL (3.68%) / DL (1.16%) / ECP** (0.27%) / HTP*** (0.22%) / JCPL (4.53%) / ME (1.73%) / NEPTUNE* (0.68%) / PECO (6.95%) / PENELEC (4.75%) / PEPCO (9.69%) / PPL (9.78%) / PSEG (7.28%) / RE (0.29%) |
| b3707.1                            | Reconductor approximately 0.57 mile of 115 kV Line #1021 from Harmony Village to Greys Point with 768 ACSS to achieve a summer emergency rating of 237 MVA. The current conductor is 477 ACSR | Dominion (100%)   |
| b3707.2                            | Reconductor approximately 0.97 mile of 115 kV Line #65 from Rappahannock to White Stone with 768 ACSS to achieve a summer emergency rating of 237 MVA. The current conductor is 477 ACSR      | Dominion (100%)   |
| b3759                              | Reconductor approximately 10.5 miles of 115 kV Line #23 segment from Oak Ridge to AC2-079 Tap to minimum emergency ratings of 393 MVA Summer / 412 MVA Winter                                 | Dominion (100%)   |

\*Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

**Virginia Electric and Power Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|       |   |  |                        |
|-------|---|--|------------------------|
| b3779 | <p>Cut existing 230 kV line #2183 and extend from Poland Road substation to Evergreen Mills substation. Approximately 0.59 miles of new line will be built from the cut-in to the Evergreen Mills substation. Cut and extend the existing 230 kV line #2183 creating a new line #2210 from Brambleton substation to be terminated at Evergreen Mills substation. Approximately 0.59 miles of new line will be built from the cut-in to the Evergreen Mills substation</p> |  | <p>Dominion (100%)</p> |
|-------|---|--|------------------------|

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 20 – Virginia Elec. and Power Co.

Version 40.0.0  
Effective April 9, 2024  
(Accepted in Docket No. ER24-843-000)

**SCHEDULE 12 – APPENDIX A**

**(20) Virginia Electric and Power Company**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b1698.7                            | Replace Loudoun 230 kV breaker '203052' with 63 kA rating   | Dominion (100%)         |
| b1696.1                            | Replace the Idylwood 230 kV '25112' breaker with 50 kA breaker  | Dominion (100%)         |
| b1696.2                            | Replace the Idylwood 230 kV '209712' breaker with 50 kA 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 63 kA breaker  | Dominion (100%)  |
| b2369                              | Replace the Brambleton 230 kV breaker '213702' with 63 kA breaker  | Dominion (100%)  |
| b2370                              | Replace the Brambleton 230 kV breaker 'H302' with 63 kA 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 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (83.98%) / Dominion (16.02%)</p> |
| b2397                              | Replace the Beaumeade 230 kV breaker '2079T2116' with 63 kA  | Dominion (100%)  |
| b2398                              | Replace the Beaumeade 230 kV breaker '2079T2130' with 63 kA  | Dominion (100%)  |
| b2399                              | Replace the Beaumeade 230 kV breaker '208192' with 63 kA   | Dominion (100%)  |
| b2400                              | Replace the Beaumeade 230 kV breaker '209592' with 63 kA   | Dominion (100%)  |
| b2401                              | Replace the Beaumeade 230 kV breaker '211692' with 63 kA   | Dominion (100%)  |
| b2402                              | Replace the Beaumeade 230 kV breaker '227T2130' with 63 kA   | 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 Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)                                       |
|------------------------------------|---|---|
| b2403                              | Replace the Beaumeade 230 kV breaker '274T2130' with 63 kA  | Dominion (100%)   |
| b2404                              | Replace the Beaumeade 230 kV breaker '227T2095' with 63 kA  | Dominion (100%)   |
| b2405                              | Replace the Pleasant view 230 kV breaker '203T274' with 63 kA   | 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 50 kA   | Dominion (100%)   |
| b2443.2                            | Replace the Ox 230 kV breaker '206342' with 63 kA breaker   | Dominion (100%)   |
| b2443.3                            | Glebe – Station C PAR   | <b>DFAX Allocation:</b><br>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 63 kA 230 kV breakers with 19 80 kA 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 Transmission Enhancements | 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 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.)**

| Required Transmission 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 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |
| 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 50 kA breaker   | Dominion (100%)   |
| b2543                              | Replace the Loudoun 500 kV ‘H2T584’ breaker with a 50 kA 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%)   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2582                              | Rebuild the Elmont – Cunningham 500 kV line   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     BGE (5.71%) / Dominion (84.43%) / PEPCO (9.86%)</p> |
| b2583                              | Install 500 kV breaker at Ox Substation to remove Ox Tx#1 from H1T561 breaker failure outage  | Dominion (100%)   |
| b2584                              | Relocate the Bremono load (transformer #5) to #2028 (Bremono-Charlottesville 230 kV) line and Cartersville distribution station to #2027 (Bremono-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%)   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

Required Transmission Enhancements    Annual 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 Transmission Enhancements    Annual 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 Transmission Enhancements | Annual 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 Transmission Enhancements | Annual 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%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b2665                              | Rebuild the Cunningham – Dooms 500 kV line  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     BGE (9.35%) / Dominion (73.04%) / PEPCO (17.61%)</p> |
| b2686                              | Pratts Area Improvement   | Dominion (100%)  |
| b2686.1                            | Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW | Dominion (100%)  |
| b2686.2                            | 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%)  |
| b2686.4                            | Replace the Remington CT 230 kV breaker “2114T2155” with a 63 kA breaker                        | 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%)  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| 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 50 kA breaker   | Dominion (100%)   |
| b2729                              | Optimal Capacitors Configuration: New 175 MVAR capacitor at Brambleton, new 175 MVAR capacitor at Ashburn, new 300 MVAR capacitor at Shelhorn, 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%) |

\* Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2744                              | Rebuild the Carson – Rogers Rd 500 kV circuit  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     BGE (4.27%) / Dominion (90.13%) / PEPCO (5.60%)</p> |
| 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%)   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

Required Transmission 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 500 kV           |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/> Dominion (100%)</p>   |
| b2759 | Rebuild Line #550 Mt. Storm – Valley 500 kV       |  | <p><b>Load-Ratio Share Allocation:</b><br/> AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/> APS (47.87%) / DL (1.02%) / Dominion (9.20%) / EKPC (13.57%) / PEPCO (28.34%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission 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 115 kV                   | Dominion (100%)         |
| b2815                              | Build a new Pinewood 115 kV switching station at the tap serving North Doswell DP with a 115 kV four breaker ring bus  | Dominion (100%)         |
| b2842                              | Update the nameplate for Mount Storm 500 kV "57272" to be 50 kA breaker  | Dominion (100%)         |
| b2843                              | Replace the Mount Storm 500 kV "G2TY" with 50 kA breaker   | Dominion (100%)         |
| b2844                              | Replace the Mount Storm 500 kV "G2TZ" with 50 kA breaker   | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b2845                              | Update the nameplate for Mount Storm 500 kV "G3TSX1" to be 50 kA breaker  | Dominion (100%)         |
| b2846                              | Update the nameplate for Mount Storm 500 kV "SX172" to be 50 kA breaker   | Dominion (100%)         |
| b2847                              | Update the nameplate for Mount Storm 500 kV "Y72" to be 50 kA breaker   | Dominion (100%)         |
| b2848                              | Replace the Mount Storm 500 kV "Z72" with 50 kA 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 Transmission 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 | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |
| 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  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement                                       | Responsible Customer(s)  |
|------------------------------------|--|--|
| b2960.1                            | Replace fixed series capacitors on 500 kV Line #547 at Lexington | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     BGE (40.11%) / DEOK (0.71%) / Dominion (9.30%) / EKPC (0.43%) / PEPCO (49.45%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)   |
|------------------------------------|--|---|
| b2960.2                            | Replace fixed series capacitors on 500 kV Line #548 at Valley  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     BGE (3.77%) / DEOK (8.84%) / Dominion (78.84%) / EKPC (3.90%) / PEPCO (4.65%)</p> |
| 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 63 kA breaker   | Dominion (100%)   |
| b2962.2                            | Replace the NIVO 230 kV breaker “2116T2130” with 63 kA 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%)   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b2978                              | Install 2-125 MVAR STATCOMs at Rawlings and 1-125 MVAR STATCOM at Clover 500 kV substations   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |
| 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

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   |  | Responsible Customer(s) |
|------------------------------------|--|--|-------------------------|
| b2989                              | Install a second 230/115 kV Transformer (224 MVA) approximately 1 mile north of Bremono and tie 230 kV Line #2028 (Bremono – Charlottesville) and 115 kV Line #91 (Bremono - 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 Bremono 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 Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s)  |
|------------------------------------|--|--|
| b3019                              | Rebuild 500 kV Line #552<br>Bristers to Chancellor – 21.6<br>miles long        | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%)<br/>                     / APS (5.76%) / ATSI (8.04%)<br/>                     / BGE (4.11%) / ComEd<br/>                     (13.39%) / Dayton (2.12%) /<br/>                     DEOK (3.25%) / DL (1.71%) /<br/>                     DPL (2.60%) / Dominion<br/>                     (13.32%) / EKPC (1.89%) /<br/>                     JCPL (3.86%) / ME (1.90%) /<br/>                     NEPTUNE* (0.42%) / OVEC<br/>                     (0.08%) / PECO (5.40%) /<br/>                     PENELEC (1.78%) / PEPCO<br/>                     (3.67%) / PPL (4.72%) / PSEG<br/>                     (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     BGE (6.89%) / Dominion<br/>                     (85.01%) / PEPCO (8.10%)</p> |
| b3019.1                            | Update the nameplate for<br>Morrisville 500 kV breaker<br>“H1T594” to be 50 kA | Dominion (100%)  |
| b3019.2                            | Update the nameplate for<br>Morrisville 500 kV breaker<br>“H1T545” to be 50 kA | Dominion (100%)  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)  |
|------------------------------------|---|--|
| b3020                              | Rebuild 500 kV Line #574 Ladysmith to Elmont – 26.2 miles long  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     APS (16.36%) / DEOK (11.61%) / Dominion (51.27%) / EKPC (5.30%) / PEPCO (15.46%)</p> |
| b3021                              | Rebuild 500 kV Line #581 Ladysmith to Chancellor – 15.2 miles long  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (92.28%) / PEPCO (7.72%)</p>  |
| b3026                              | Reconductor Line #274 (Pleasant View – Ashburn – Beaumeade 230 kV) with a minimum rating of 1200 MVA. Also upgrade terminal equipment | Dominion (100%)  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

Required Transmission Enhancements    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 50 kA breaker   |  | Dominion (100%) |
| b3027.4 | Update the nameplate for Ladysmith 500 kV breaker "H1T575" to be 50 kA breaker   |  | Dominion (100%) |
| b3027.5 | Update the nameplate for Ladysmith 500 kV breaker "568T574" (will be renumbered as "H2T568") to be 50 kA 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.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | 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%)         |
| b3096                              | Rebuild 230 kV line No.2063 (Clifton – Ox) and part of 230 kV line No.2164 (Clifton – Keene Mill) with double circuit steel structures using double circuit conductor at current 230 kV northern Virginia standards with a minimum rating of 1200 MVA | Dominion (100%)         |
| b3097                              | Rebuild 4 miles of 115 kV Line #86 between Chesterfield and Centralia to current standards with a minimum summer emergency rating of 393 MVA  | Dominion (100%)         |
| b3098                              | Rebuild 9.8 miles of 115 kV Line #141 between Balcony Falls and Skimmer and 3.8 miles of 115 kV Line #28 between Balcony Falls and Cushaw to current standards with a minimum rating of 261 MVA   | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3098.1                            | Rebuild Balcony Falls 115 kV substation   | Dominion (100%)         |
| b3110.1                            | Rebuild Line #2008 between Loudoun to Dulles Junction using single circuit conductor at current 230 kV northern Virginia standards with minimum summer ratings of 1200 MVA. Cut and loop Line #265 (Clifton – Sully) into Bull Run substation. Add three (3) 230 kV breakers at Bull Run to accommodate the new line and upgrade the substation | Dominion (100%)         |
| b3110.2                            | Replace the Bull Run 230 kV breakers “200T244” and “200T295” with 50 kA breakers  | Dominion (100%)         |
| b3110.3                            | Replace the Clifton 230 kV breakers “201182” and “XT2011” with 63 kA breakers   | Dominion (100%)         |
| b3113                              | Rebuild approximately 1 mile of 115 kV Lines #72 and #53 to current standards with a minimum summer emergency rating of 393 MVA. The resulting summer emergency rating of Line #72 segment from Brown Boveri to Bellwood is 180 MVA. There is no change to Line #53 ratings   | Dominion (100%)         |
| b3114                              | Rebuild the 18.6 mile section of 115 kV Line #81 which includes 1.7 miles of double circuit Line #81 and 230 kV Line #2056. This segment of Line #81 will be rebuilt to current standards with a minimum rating of 261 MVA. Line #2056 rating will not change   | Dominion (100%)         |
| b3121                              | Rebuild Clubhouse – Lakeview 230 kV Line #254 with single-circuit wood pole equivalent structures at the current 230 kV standard with a minimum rating of 1047 MVA  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3122                              | Rebuild Hathaway – Rocky Mount (Duke Energy Progress) 230 kV Line #2181 and Line #2058 with double circuit steel structures using double circuit conductor at current 230 kV standards with a minimum rating of 1047 MVA  | Dominion (100%)         |
| b3161.1                            | Split Chesterfield-Plaza 115 kV Line No. 72 by rebuilding the Brown Boveri tap line as double circuit loop in-and-out of the Brown Boveri Breaker station   | Dominion (100%)         |
| b3161.2                            | Install a 115 kV breaker at the Brown Boveri Breaker station. Site expansion is required to accommodate the new layout  | Dominion (100%)         |
| b3162                              | Acquire land and build a new 230 kV switching station (Stevensburg) with a 224 MVA, 230/115 kV transformer. Gordonsville-Remington 230 kV Line No. 2199 will be cut and connected to the new station. Remington-Mt. Run 115 kV Line No.70 and Mt. Run-Oak Green 115 kV Line No. 2 will also be cut and connected to the new station | Dominion (100%)         |
| b3211                              | Rebuild the 1.3 mile section of 500 kV Line No. 569 (Loudoun – Morrisville) with single-circuit 500 kV structures at the current 500 kV standard. This will increase the rating of the line to 3424 MVA   | Dominion (100%)         |
| b3213                              | Install 2nd Chickahominy 500/230 kV transformer   | Dominion (100%)         |
| b3213.1                            | Replace the eight (8) Chickahominy 230 kV breakers with 63 kA breakers: “SC122”, “205022”, “209122”, 210222-2”, “28722”, “H222”, “21922” and “287T2129”   | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s) |
|------------------------------------|---|-------------------------|
| b3223.1                            | Install a second 230 kV circuit with a minimum summer emergency rating of 1047 MVA between Lanexa and Northern Next substations. The second circuit will utilize the vacant arms on the double-circuit structures that are being installed on Line #224 (Lanexa – Northern Next) as part of the End-of-Life rebuild project (b3089)   | Dominion (100%)         |
| b3223.2                            | Expand the Northern Neck terminal from a 230 kV, 4-breaker ring bus to a 6-breaker ring bus   | Dominion (100%)         |
| b3223.3                            | Expand the Lanexa terminal from a 6-breaker ring bus to a breaker-and-a-half arrangement  | Dominion (100%)         |
| b3246.1                            | Convert 115 kV Line #172 Liberty – Lomar and 115 kV Line #197 Cannon Branch – Lomar to 230 kV to provide a new 230 kV source between Cannon Branch and Liberty. The majority of 115 kV Line #172 Liberty – Lomar and Line #197 Cannon Branch – Lomar is adequate for 230 kV operation. Rebuild 0.36 mile segment between the Lomar and Cannon Branch junction. Lines will have a summer rating of 1047MVA/1047MVA (SN/SE) | Dominion (100%)         |
| b3246.2                            | Perform substation work for the 115 kV to 230 kV line conversion at Liberty, Wellington, Godwin, Pioneer, Sandlot and Cannon Branch   | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3246.3                            | Extend 230 kV Line #2011 Cannon Branch – Clifton to Winters Branch by removing the existing Line #2011 termination at Cannon Branch and extending the line to Brickyard creating 230 kV Line #2011 Brickyard - Clifton. Extend a new 230 kV line between Brickyard and Winters Branch with a summer rating of 1572MVA/1572MVA (SN/SE) | Dominion (100%)   |
| b3246.4                            | Perform substation work at Cannon Branch, Brickyard and Winters Branch for the 230 kV Line #2011 Cannon Branch – Clifton extension  | Dominion (100%)   |
| b3246.5                            | Replace the Gainesville 230 kV 40 kA breaker “216192” with a 50 kA breaker  | Dominion (100%)   |
| b3247                              | Replace 13 towers with galvanized steel towers on Doubs – Goose Creek 500 kV. Reconductor 3 mile section with three (3) 1351.5 ACSR 45/7. Upgrade line terminal equipment at Goose Creek substation to support the 500 kV line rebuild  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3262                              | Install a second 115 kV 33.67 MVAR cap bank at Harrisonburg substation along with a 115 kV breaker   | Dominion (100%)         |
| b3263                              | Cut existing 115 kV Line #5 between Bremono and Cunningham substations and loop in and out of Fork Union substation  | Dominion (100%)         |
| b3264                              | Install 40 kA breaker at Stuarts Draft 115 kV station and sectionalize the Doom to Dupont-Waynesboro 115 kV Line #117 into two 115 kV lines  | Dominion (100%)         |
| b3268                              | Build a switching station at the junction of 115 kV line #39 and 115 kV line #91 with a 115 kV capacitor bank. The switching station will be built with 230 kV structures but will operate at 115 kV | Dominion (100%)         |
| b3300                              | Reconductor 230 kV Line #2172 from Brambleton to Evergreen Mills along with upgrading the line leads at Brambleton to achieve a summer emergency rating of 1574 MVA                                  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement   | Responsible Customer(s) |
|------------------------------------|--|-------------------------|
| b3301                              | Reconductor 230 kV Line #2210 from Brambleton to Evergreen Mills along with upgrading the line leads at Brambleton to achieve a summer emergency rating of 1574 MVA  | Dominion (100%)         |
| b3302                              | Reconductor 230 kV Line #2213 from Cabin Run to Yardley Ridge along with upgrading the line leads at Yardley to achieve a summer emergency rating of 1574 MVA  | Dominion (100%)         |
| b3303.1                            | Extend a new single circuit 230 kV Line #9250 from Farmwell substation to Nimbus substation  | Dominion (100%)         |
| b3303.2                            | Remove Beaumeade 230 kV Line #2152 line switch   | Dominion (100%)         |
| b3304                              | Midlothian area improvements for 300 MW load drop relief   | Dominion (100%)         |
| b3304.1                            | Cut 230 kV Line #2066 at Trabue junction   | Dominion (100%)         |
| b3304.2                            | Reconductor idle 230 kV Line #242 (radial from Midlothian to Trabue junction) to allow a minimum summer rating of 1047 MVA and connect to the section of 230 kV Line #2066 between Trabue junction and Winterpock, re-number 230 kV Line #242 structures to Line #2066 | Dominion (100%)         |
| b3304.3                            | Use the section of idle 115 kV Line #153, between Midlothian and Trabue junction to connect to the section of (former) 230 kV Line #2066 between Trabue junction and Trabue to create new Midlothian – Trabue lines with new line numbers #2218 and #2219              | Dominion (100%)         |
| b3304.4                            | Create new line terminations at Midlothian for the new Midlothian – Trabue 230 kV lines  | Dominion (100%)         |

**Virginia Electric and Power Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |   |  |                 |
|---------|---|--|-----------------|
| b3684   | Rebuild 12.4 miles of 115 kV line from Earleys to Kelford with a summer emergency rating of 262 MVA. Replace structures as needed to support the new conductor. Upgrade breaker switch 13668 at Earleys from 1200 A to 2000 A   |  | Dominion (100%) |
| b3685   | Install a 33 MVAR cap bank at Cloud 115 kV bus along with a 115 kV breaker. Add 115 kV circuit breaker for 115 kV Line #38  |  | Dominion (100%) |
| b3686   | Purchase land close to the bifurcation point of 115 kV Line #4 (where the line is split into two sections) and build a new 115 kV switching station called Duncan Store. The new switching station will require space for an ultimate transmission interconnection consisting of a 115 kV six-breaker ring bus (with three breakers installed initially)                              |  | Dominion (100%) |
| b3687   | Rebuild approximately 15.1 miles line segment between Bristers and Minnieville D.P. with 2-768 ACSS and 4000 A supporting equipment from Bristers to Ox to allow for future 230 kV capability of 115 kV Line #183. The continuous summer normal rating will be 523 MVA for line Ox – Minnieville. The continuous summer normal rating will be 786 MVA for Minnieville – Bristers line |  | Dominion (100%) |
| b3689.1 | Reconductor approximately 24.42 miles of 230 kV Line #2114 Remington CT– Elk Run – Gainesville to achieve a summer rating of 1574 MVA by fully reconductoring the line and upgrading the wave trap and substation conductor at Remington CT and Gainesville 230 kV stations   |  | Dominion (100%) |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3689.2                            | Replace 230 kV breakers SC102, H302, H402 and 218302 at Brambleton substation with 4000A 80 kA breakers and associated equipment including breaker leads as necessary to address breaker duty issues identified in short circuit analysis | Dominion (100%)   |
| b3690                              | Reconductor approximately 1.07 miles of 230 kV Line #2008 segment from Cub Run to Walney to achieve a summer rating of 1574 MVA. Replace line switch 200826 with a 4000A switch   | Dominion (100%)   |
| b3691                              | Reconductor approximately 1.4 miles of 230 kV Line #2141 from Lakeview to Carolina to achieve a summer rating of 1047 MVA   | Dominion (100%)   |
| b3692                              | Rebuild approximately 27.7 miles of 500 kV transmission line from Elmont to Chickahominy with current 500 kV standards construction practices to achieve a summer rating of 4330 MVA  | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3693                              | Expand substation and install approximately 294 MVAR cap bank at 500 kV Lexington substation along with a 500 kV breaker. Adjust the tap positions associated with the two 230/69 kV transformers at Harrisonburg to neutral position and lock them   | <p><b>Load-Ratio Share Allocation:</b><br/>                     AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / DPL (2.60%) / Dominion (13.32%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</p> <p><b>DFAX Allocation:</b><br/>                     Dominion (100%)</p> |
| b3694.1                            | Convert 115 kV Line #29 Aquia Harbour to Possum Point to 230 kV (Extended Line #2104) and swap Line #2104 and converted Line #29 at Aquia Harbour backbone termination. Upgrade terminal equipment at Possum Point to terminate converted Line #29 (now extended line #2104). (Line #29 from Fredericksburg to Aquia Harbour is being rebuilt under baseline b2981 to 230 kV standards) | <p>Dominion (100%)</p>  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|         |  |  |                 |
|---------|--|--|-----------------|
| b3694.2 | Upgrade Aquia Harbour terminal equipment to not limit 230 kV Line #9281 conductor rating   |  | Dominion (100%) |
| b3694.3 | Upgrade Fredericksburg terminal equipment by rearranging 230 kV bus configuration to terminate converted Line #29 (now becoming 9281). The project will add a new breaker at the 230 kV bay and reconfigure line termination of 230 kV Line #2157, #2090 and #2083   |  | Dominion (100%) |
| b3694.4 | Reconductor/rebuild approximately 7.6 miles of 230 kV Line #2104 Cranes Corner – Stafford to achieve a summer rating of 1047 MVA.<br>Reconductor/rebuild approximately 0.34 miles of 230 kV Line #2104 Stafford – Aquia Harbour to achieve a summer rating of 1047 MVA.<br>Upgrade terminal equipment at Cranes Corner to not limit the new conductor rating |  | Dominion (100%) |
| b3694.5 | Upgrade wave trap and line leads at 230 kV Line #2090 Ladysmith CT terminal to achieve 4000A rating  |  | Dominion (100%) |

**Virginia Electric and Power Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|          |  |  |                 |
|----------|--|--|-----------------|
| b3694.6  | Upgrade Fuller Road substation to feed Quantico substation via 115 kV radial line. Install four-breaker ring bus and break 230 kV Line #252 into two new lines: 1) Line #252 between Aquia Harbour and Fuller Road and 2) Line #9282 between Fuller Road and Possum Point. Install a 230/115 kV transformer which will serve Quantico substation |  | Dominion (100%) |
| b3694.7  | Energize in-service spare 500/230 kV Carson Transformer #1   |  | Dominion (100%) |
| b3694.8  | Partial wreck and rebuild 10.34 miles of 230 kV Line #249 Carson – Locks to achieve a minimum summer emergency rating of 1047 MVA. Upgrade terminal equipment at Carson and Locks stations to not limit the new conductor rating   |  | Dominion (100%) |
| b3694.9  | Wreck and rebuild 5.4 miles of 115 kV Line #100 Locks – Harrowgate to achieve a minimum summer emergency rating of 393 MVA. Upgrade terminal equipment at Locks and Harrowgate stations to not limit the new conductor rating and perform Line #100 Chesterfield terminal relay work   |  | Dominion (100%) |
| b3694.10 | Reconductor approximately 2.9 miles of 230 kV Line #211 Chesterfield – Hopewell to achieve a minimum summer emergency rating of 1046 MVA   |  | Dominion (100%) |
| b3694.11 | Reconductor approximately 2.9 miles of 230 kV Line #228 Chesterfield – Hopewell to achieve a minimum summer emergency rating of 1046 MVA   |  | Dominion (100%) |
| b3694.12 | Upgrade equipment at Chesterfield 230 kV substation to not limit ratings on Line #211 and #228   |  | Dominion (100%) |

**Virginia Electric and Power Company (cont.)**

| Required Transmission Enhancements | Annual Revenue Requirement  | Responsible Customer(s)   |
|------------------------------------|---|---|
| b3694.13                           | Upgrade equipment at Hopewell 230 kV substation to not limit ratings on Line #211 and #228  | Dominion (100%)   |
| b3702                              | Install one 13.5 Ohm series reactor to control the power flow on the 230 kV Line #2054 from Charlottesville substation to Proffit Rd. 230 kV line   | AEC (1.59%) / APS (8.85%) / ATSI (5.54%) / BGE (10.79%) / ComEd (1.86%) / Dayton (0.21%) / DEOK (1.16%) / Dominion (18.99%) / DPL (3.68%) / DL (1.16%) / ECP** (0.27%) / HTP*** (0.22%) / JCPL (4.53%) / ME (1.73%) / NEPTUNE* (0.68%) / PECO (6.95%) / PENELEC (4.75%) / PEPCO (9.69%) / PPL (9.78%) / PSEG (7.28%) / RE (0.29%) |
| b3707.1                            | Reconductor approximately 0.57 mile of 115 kV Line #1021 from Harmony Village to Greys Point with 768 ACSS to achieve a summer emergency rating of 237 MVA. The current conductor is 477 ACSR | Dominion (100%)   |
| b3707.2                            | Reconductor approximately 0.97 mile of 115 kV Line #65 from Rappahannock to White Stone with 768 ACSS to achieve a summer emergency rating of 237 MVA. The current conductor is 477 ACSR      | Dominion (100%)   |
| b3759                              | Reconductor approximately 10.5 miles of 115 kV Line #23 segment from Oak Ridge to AC2-079 Tap to minimum emergency ratings of 393 MVA Summer / 412 MVA Winter                                 | Dominion (100%)   |

\*Neptune Regional Transmission System, LLC

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

\*\*\*Hudson Transmission Partners, LLC

**Virginia Electric and Power Company (cont.)**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|                  |  |  |  |
|------------------|--|--|--|
| b3779            | Cut existing 230 kV line #2183 and extend from Poland Road substation to Evergreen Mills substation. Approximately 0.59 miles of new line will be built from the cut-in to the Evergreen Mills substation. Cut and extend the existing 230 kV line #2183 creating a new line #2210 from Brambleton substation to be terminated at Evergreen Mills substation. Approximately 0.59 miles of new line will be built from the cut-in to the Evergreen Mills substation |  | Dominion (100%)  |
| <u>b3800.118</u> | <u>Line work for terminating Doubs to Bismark line into Woodside 500 kV substation (DOM Portion)</u>   |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (21.09%) / BGE (6.55%) / Dominion (64.94%) / PEPCO (7.42%)</u></p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                         |  |  |  |
|-------------------------|--|--|--|
| <p><u>b3800.120</u></p> | <p><u>Aspen substation work to terminate the new NextEra 500 kV line. Include Aspen 500 kV substation portion build</u></p>  |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (9.18%) / BGE (7.21%) / Dominion (72.52%) / PEPCO (11.09%)</u></p> |
| <p><u>b3800.200</u></p> | <p><u>Build a new 500 kV line from Aspen - Golden on 500/230 kV double circuit structures with substation upgrades at Aspen and Golden. New conductor to have a minimum summer normal rating of 4357 MVA</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>Dominion (100%)</u></p>  |
| <p><u>b3800.201</u></p> | <p><u>Install two 500/230 kV transformer at Golden substation</u></p>  |  | <p><u>Dominion (100%)</u></p>  |
| <p><u>b3800.202</u></p> | <p><u>Install one 500/230 kV transformer at Aspen substation</u></p>   |  | <p><u>Dominion (86.28%) / PEPCO (13.72%)</u></p>   |

**\*Neptune Regional Transmission System, LLC**

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |   |  |                        |
|------------------|---|--|------------------------|
| <u>b3800.203</u> | <u>Install a second 500/230 kV 1440 MVA transformer at Mars substation</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.204</u> | <u>Reconductor 0.5 mile section of 230 kV line No. 2150 Golden - Paragon Park Circuit 1 to achieve a summer rating of 1573 MVA</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.205</u> | <u>Reconductor 0.5 mile section of 230 kV line No. 2081 Golden - Paragon Park Circuit 2 to achieve a summer rating of 1573 MVA</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.206</u> | <u>Upgrade Paragon Park substation line conductors to 4000A continuous current rating for 230 kV lines No. 2081 and No. 2150</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.207</u> | <u>Reconductor 230 kV line No. 2207 Paragon Park -- BECO to achieve a summer rating of 1573 MVA</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.208</u> | <u>Upgrade Paragon Park substation conductor and line leads to 4000A continuous current rating for 230 kV line No. 2207</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.209</u> | <u>Upgrade BECO substation equipment to 4000A continuous current rating for 230 kV line No.2207</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.210</u> | <u>Build a new 230 kV line from Mars - Lockridge on 500/230 kV double circuit structures to achieve a summer rating of 1573 MVA. Install 230 kV equipment at Mars and Lockridge substations</u>     |  | <u>Dominion (100%)</u> |
| <u>b3800.211</u> | <u>Build a new 230 kV line from Lockridge - Golden on 500/230 kV double circuit structures to achieve a summer rating of 1573 MVA. Install 230 kV equipment at Golden and Lockridge substations</u> |  | <u>Dominion (100%)</u> |

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                         |  |   |
|-------------------------|--|---|
| <p><u>b3800.212</u></p> | <p><u>Build a new 500 kV line from Mars - Golden on 500/230 kV double circuit structures with substation upgrades at Golden and Mars. New conductor to have a minimum summer normal rating of 4357 MVA</u></p>   | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (99.96%) / Dominion (0.04%)</u></p> |
| <p><u>b3800.213</u></p> | <p><u>Cut 500 kV line No. 558 Brambleton - Goose Creek into Aspen substation. Upgrade 500 kV terminal equipment at Aspen and Goose Creek to 5000A continuous rating current. At Goose Creek, replace circuit breakers 59582 and 55882, and associated disconnect switches, breaker leads, bus, and line risers to accommodate 5000A rating</u></p> | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (99.39%) / Dominion (0.61%)</u></p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                         |  |  |   |
|-------------------------|--|--|---|
| <p><u>b3800.214</u></p> | <p><u>Build a new 500 kV line from Aspen - Goose Creek to achieve a summer rating of 4357 MVA. Install new 500 kV terminal equipment at Aspen</u></p>  |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (99.39%) / Dominion (0.61%)</u></p> |
| <p><u>b3800.215</u></p> | <p><u>Cut 230 kV line No. 2150 Sterling Park - Paragon Park Circuit 1 into Golden substation and install 230 kV equipment at Golden. Upgrade relay settings at Golden substation for upgrading 230 kV line No. 2150 to 4000A continuous current rating</u></p> |  | <p><u>Dominion (100%)</u></p>   |
| <p><u>b3800.216</u></p> | <p><u>Cut 230 kV line No. 2081 Sterling Park - Paragon Park Circuit 2 into Golden substation and install 230 kV equipment at Golden. Upgrade relay settings at Golden substation for upgrading 230 kV line No. 2081 to 4000A continuous current rating</u></p> |  | <p><u>Dominion (100%)</u></p>   |
| <p><u>b3800.217</u></p> | <p><u>Build a new 230 kV line from Aspen - Sycolin Creek on 500/230 kV double circuit structures to achieve a summer rating of 1573 MVA. Install 230 kV equipment at Golden and Sycolin Creek substations</u></p>  |  | <p><u>Dominion (86.28%) / PEPCO (13.72%)</u></p>  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |   |  |   |
|------------------|---|--|---|
| <u>b3800.218</u> | <u>Build a new 230 kV line from Sycolin Creek - Golden on 500/230 kV double circuit structures to achieve a summer rating of 1573 MVA. Install 230 kV equipment at Golden and Sycolin Creek substations</u> |  | <u>Dominion (100%)</u>  |
| <u>b3800.219</u> | <u>Replace seven overdutied 230 kV breakers at Beaumede substation with 80 kA breakers</u>  |  | <u>Dominion (100%)</u>  |
| <u>b3800.220</u> | <u>Replace four overdutied 230 kV breakers at BECO substation with 80 kA breakers</u>   |  | <u>Dominion (100%)</u>  |
| <u>b3800.221</u> | <u>Replace four overdutied 230 kV breakers at Belmont substation with 80 kA breakers</u>  |  | <u>Dominion (100%)</u>  |
| <u>b3800.222</u> | <u>Replace one overdutied 230 kV breaker at Discovery substation with 80 kA breaker</u>   |  | <u>Dominion (100%)</u>  |
| <u>b3800.223</u> | <u>Replace one overdutied 230 kV breaker at Pleasant View substation with 80 kA breaker</u>   |  | <u>Dominion (100%)</u>  |
| <u>b3800.224</u> | <u>Replace two overdutied 230 kV breakers at Shellhorn substation with 80 kA breakers</u>   |  | <u>Dominion (100%)</u>  |
| <u>b3800.225</u> | <u>Change 500 kV line No. 558 destination at Brambleton to Aspen substation and upgrade line protection relays</u>  |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (5.20%) / DL (0.46%) / Dominion (91.40%) / ME (0.59%) / PEPCO (2.35%)</u></p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |   |  |                        |
|------------------|---|--|------------------------|
| <u>b3800.226</u> | <u>Change 230 kV lines No. 2081 and No. 2150 at Paragon Park substation destination to Golden substation and upgrade line protection relays</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.227</u> | <u>Change 230 kV lines No. 2081 and No. 2150 at Sterling Park substation destination to Golden substation and upgrade line protection relays</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.228</u> | <u>Reconductor 1.47 miles of 230 kV lines No. 2081 and No. 2150 from Sterling Park to Golden substation. Upgrade terminal equipment at Sterling Park to 4000A continuous current</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.229</u> | <u>Reconductor 0.67 miles of 230 kV lines No. 2194 and No. 9231 from Davis Drive to Sterling Park substation. Terminal equipment at remote end substations will be installed or upgraded to 4000A continuous current rating to support new conductor ratings</u>                                    |  | <u>Dominion (100%)</u> |
| <u>b3800.230</u> | <u>Reset relays at Breezy Knoll for the revised current rating of 230 kV line No. 2098 Pleasant View - Hamilton</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.231</u> | <u>Reset relays at Dry Mill for the revised current rating of 230 kV line No. 2098 Pleasant View - Hamilton</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.232</u> | <u>Reset relays at Hamilton for the revised current rating of 230 kV line No. 2098 Pleasant View - Hamilton</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.233</u> | <u>Upgrade equipment to 4000A continuous current rating at Pleasant View substation in support of 230 kV line No. 2098 wreck and rebuild. Replace circuit breakers 274T2098 &amp; 2098T2180 and associated disconnect switches, breaker leads, bus, and line risers to accommodate 4000A rating</u> |  | <u>Dominion (100%)</u> |

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |  |  |   |
|------------------|--|--|---|
| <u>b3800.234</u> | <u>Wreck and rebuild approximately one mile of 230 kV line No. 2098 between Pleasant View and structure 2098/9, where line No. 2098 turns towards Hamilton substation</u>  |  | <u>Dominion (100%)</u>  |
| <u>b3800.235</u> | <u>Replace five overdutied 230 kV breakers at Loudoun substation with 80 kA breakers</u>   |  | <u>Dominion (100%)</u>  |
| <u>b3800.236</u> | <u>Replace two overdutied 230 kV breakers at Ox substation with 63 kA breakers</u>   |  | <u>Dominion (100%)</u>  |
| <u>b3800.237</u> | <u>Replace two overdutied 230 kV breakers at Pleasant View substation with 63 kA breakers</u>  |  | <u>Dominion (100%)</u>  |
| <u>b3800.238</u> | <u>Upgrade equipment to 4000A continuous current rating at Pleasant View substation in support of 230 kV line No. 203 rebuild. Replace circuit breakers 203T274 &amp; L3T203 and associated disconnect switches, breaker leads, bus, and line risers to accommodate 4000A rating</u> |  | <u>APS (8.09%) / BGE (8.25%) / Dominion (64.87%) / PEPCO (18.79%)</u> |
| <u>b3800.239</u> | <u>Wreck and rebuild 230 kV line No. 203 between Pleasant View and structure 203/15 using double circuit 500/230 kV structures. The 500 kV line is from Aspen - Doubs</u>  |  | <u>APS (8.09%) / BGE (8.25%) / Dominion (64.87%) / PEPCO (18.79%)</u> |

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                         |  |  |   |
|-------------------------|--|--|---|
| <p><u>b3800.240</u></p> | <p><u>Build a new 500 kV line from Aspen - Doubs using double circuit 500/230 kV structures. The 230 kV line is from Pleasant View - structure 203/15. Install terminal equipment at Aspen for a 5000A line to Doubs. This includes GIS breakers, GIS-to-AIS transition equipment, and metering CCVTs and CTs for the tie line</u></p>   |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (0.09%) / Dominion (99.89%) / PEPCO (0.02%)</u></p> |
| <p><u>b3800.241</u></p> | <p><u>Rebuild 500 kV line No. 514 from Goose Creek - Doubs using 500/230 kV double circuit structures. The new double circuit towers will accommodate 230 kV line No. 2098 between Pleasant View substation and structure 2098/9. Upgrade equipment at Goose Creek to 5000A continuous current rating in support of line No. 514 wreck and rebuild. Replace circuit breakers 514T595 &amp; 51482 and associated disconnect switches, breaker leads, bus, and line risers to accommodate 5000A rating</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (0.08%) / Dominion (99.90%) / PEPCO (0.02%)</u></p> |
| <p><u>b3800.242</u></p> | <p><u>Upgrading switches 20366M and 20369M and line leads to 4000A continuous current rating of 230 kV line No. 203 at Edwards Ferry substation</u></p>  |  | <p><u>APS (11.45%) / BGE (14.14%) / Dominion (42.82%) / PEPCO (31.59%)</u></p>  |

**\*Neptune Regional Transmission System, LLC**

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |  |  |                        |
|------------------|--|--|------------------------|
| <u>b3800.300</u> | <u>Rebuild 230 kV line No. 2135 Hollymeade Junction – Cash’s Corner using double-circuit capable 500/230 kV poles. New conductor has a summer rating of 1573 MVA. (The 500 kV circuit will not be wired as part of this project)</u> |  | <u>Dominion (100%)</u> |
| <u>b3800.301</u> | <u>Rebuild 230 kV line No. 2135 Cash’s Corner - Gordonsville using double-circuit capable 500/230 kV poles. New conductor has a summer rating of 1573 MVA. (The 500 kV circuit will not be wired as part of this project)</u>        |  | <u>Dominion (100%)</u> |
| <u>b3800.302</u> | <u>Upgrade Cash’s Corner switches 213576 and 213579 and line leads to 4000A continuous current rating of 230 kV line No. 2135</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.303</u> | <u>Upgrade Gordonsville substation line leads to 4000A continuous current rating of 230 kV line No. 2135</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.304</u> | <u>Upgrade Hollymeade substation switch 213549 and line leads to 4000A continuous current rating of 230 kV line No. 2135</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.305</u> | <u>Install one 230 kV 300 MVAR STATCOM and associated equipment at Beaumeade 230 kV substation</u>   |  | <u>Dominion (100%)</u> |

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                         |  |  |   |
|-------------------------|--|--|---|
| <p><u>b3800.306</u></p> | <p><u>Install one 500 kV, 150 MVAR Shunt Capacitor Bank and associated equipment at Morrisville substation. This addition will require a control house expansion to accommodate for two new panels</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>Dominion (100%)</u></p> |
| <p><u>b3800.307</u></p> | <p><u>Install one 500 kV, 300 MVAR STATCOM and associated equipment at Mars substation</u></p>   |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>Dominion (100%)</u></p> |
| <p><u>b3800.308</u></p> | <p><u>Install one 230 kV, 150 MVAR Shunt Capacitor Bank and associated equipment at Mars substation</u></p>  |  | <p><u>Dominion (100%)</u></p>   |
| <p><u>b3800.309</u></p> | <p><u>Install one 230 kV, 150 MVAR Shunt Capacitor Bank and associated equipment at Wishing Star substation</u></p>  |  | <p><u>Dominion (100%)</u></p>   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                         |  |  |   |
|-------------------------|--|--|---|
| <p><u>b3800.310</u></p> | <p><u>Install one 500 kV, 293.8 MVAR Shunt Capacitor Bank &amp; associated equipment at Wishing Star substation</u></p>  |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>Dominion (100%)</u></p>                   |
| <p><u>b3800.311</u></p> | <p><u>Rebuild 500 kV line No. 545 Bristers - Morrisville as a single circuit monopole line to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 4357 MVA</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>Dominion (91.07%) / PEPCO (8.93%)</u></p> |

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                         |   |  |  |
|-------------------------|---|--|--|
| <p><u>b3800.312</u></p> | <p><u>Rebuild 500 kV line No. 569 Loudoun - Morrisville to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 4357 MVA</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (11.72%) / Dominion (88.28%)</u></p>                               |
| <p><u>b3800.313</u></p> | <p><u>Rebuild approximately 10.29 miles 500 kV line segment of line No. 535 (Meadow Brook to Loudoun) to accommodate the new 500 kV line in the existing ROW</u></p>      |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (13.93%) / BGE (6.86%) / Dominion (70.92%) / PEPCO (8.29%)</u></p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                         |   |  |   |
|-------------------------|---|--|---|
| <p><u>b3800.314</u></p> | <p><u>Rebuild approximately 4.83 miles of 500 kV line No. 546 Mosby - Wishing Star to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 4357 MVA. Upgrade and install equipment at Mosby substation to upgrade terminal equipment to be rated for 5000A for 500 kV line No. 546</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (41.98%) / Dominion (34.03%) / PEPCO (23.99%)</u></p> |
| <p><u>b3800.315</u></p> | <p><u>Rebuild approximately 4.59 miles of 500 kV line No. 590 Mosby - Wishing Star to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 4357 MVA. Upgrade and install equipment at Mosby substation to upgrade terminal equipment to be rated for 5000A for 500 kV line No. 590</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (41.98%) / Dominion (34.03%) / PEPCO (23.99%)</u></p> |
| <p><u>b3800.316</u></p> | <p><u>Rebuild approximately 6.17 miles of 230 kV line No. 2030 Gainesville - Mint Springs to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u></p>   |  | <p><u>Dominion (100%)</u></p>   |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |   |  |                        |
|------------------|---|--|------------------------|
| <u>b3800.317</u> | <u>Rebuild approximately 1.58 miles of 230 kV line No. 2030 Mint Springs - Loudoun to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>    |  | <u>Dominion (100%)</u> |
| <u>b3800.318</u> | <u>Rebuild approximately 4.2 miles of 230 kV line No. 2045 Loudoun - North Star to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>       |  | <u>Dominion (100%)</u> |
| <u>b3800.319</u> | <u>Rebuild approximately 0.88 miles of 230 kV line No. 2045 North Star - Brambleton to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.320</u> | <u>Rebuild approximately 1.22 miles of 230 kV line No. 2227 Brambleton - Racefield to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>    |  | <u>Dominion (100%)</u> |
| <u>b3800.321</u> | <u>Rebuild approximately 3.69 miles of 230 kV line No. 2094 Racefield - Loudoun to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>       |  | <u>Dominion (100%)</u> |
| <u>b3800.322</u> | <u>Rebuild approximately 9.16 miles of 230 kV line No. 2101 Bristers - Nokesville to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>     |  | <u>Dominion (100%)</u> |
| <u>b3800.323</u> | <u>Rebuild approximately 2.89 miles of 230 kV line No. 2101 Nokesville - Vint Hill TP to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u> |  | <u>Dominion (100%)</u> |

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |   |  |                        |
|------------------|---|--|------------------------|
| <u>b3800.324</u> | <u>Rebuild approximately 0.33 miles of 230 kV line No. 2101 Vint Hill TP - Vint Hill to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.325</u> | <u>Rebuild approximately 3.32 miles of 230 kV line No. 2114 Rollins Ford - Vint Hill to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.326</u> | <u>Rebuild approximately 10.09 miles of 230 kV line No. 2114 Vint Hill - Elk Run to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>      |  | <u>Dominion (100%)</u> |
| <u>b3800.327</u> | <u>Rebuild approximately 4.43 miles of 230 kV line No. 2140 Heathcote - Catharpin to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>     |  | <u>Dominion (100%)</u> |
| <u>b3800.328</u> | <u>Rebuild approximately 2.88 miles of 230 kV line No. 2140 Catharpin - Loudoun to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>       |  | <u>Dominion (100%)</u> |
| <u>b3800.329</u> | <u>Rebuild approximately 0.25 miles of 230 kV line No. 2151 Railroad DP - Gainesville to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u> |  | <u>Dominion (100%)</u> |
| <u>b3800.330</u> | <u>Rebuild approximately 4.14 miles of 230 kV line No. 2163 Vint Hill - Liberty to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>       |  | <u>Dominion (100%)</u> |

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|           |  |  |   |
|-----------|--|--|---|
| b3800.331 | <u>Rebuild approximately 0.48 miles of 230 kV line No. 2176 Heathcote - Gainesville to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>    |  | <u>Dominion (100%)</u>  |
| b3800.332 | <u>Rebuild approximately 1.11 miles of 230 kV line No. 2222 Rollins Ford - Gainesville to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u> |  | <u>Dominion (100%)</u>  |
| b3800.333 | <u>Rebuild approximately 1.65 miles of 115 kV line No. 183 Bristers - Ox to accommodate the new 500 kV line in the existing ROW. New conductor to have a summer rating of 1573 MVA</u>               |  | <u>Dominion (100%)</u>  |
| b3800.334 | <u>Replace four overdutied 230 kV breakers at Loudoun Substation with 80 kA breakers</u>   |  | <u>Dominion (100%)</u>  |
| b3800.335 | <u>Replace one overdutied 500 kV breaker at Ox Substation with a 63 kA breaker</u>   |  | <u>Dominion (100%)</u>  |
| b3800.336 | <u>Upgrade and install equipment at Bristers substation to support the new conductor 5000A rating for 500 kV line No. 545</u>  |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>Dominion (91.07%) / PEPCO (8.93%)</u></p> |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |   |  |                        |
|------------------|---|--|------------------------|
| <u>b3800.337</u> | <u>Upgrade and install equipment at Brambleton substation to support the new conductor termination. All terminal equipment for 230 kV lines No. 2045 and No. 2094 to be rated for 4000A continuous current rating</u> |  | <u>Dominion (100%)</u> |
| <u>b3800.338</u> | <u>Revise relay settings at Dawkins Branch 230 kV station</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.339</u> | <u>Upgrade and install equipment at Gainesville 230 kV substation to support the new conductor termination. All terminal equipment for 230 kV line No. 2030 to be rated for 4000A continuous current rating</u>       |  | <u>Dominion (100%)</u> |
| <u>b3800.340</u> | <u>Revise relay settings at Heathcote 230 kV station</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.341</u> | <u>Upgrade and install equipment at Loudoun substation for 230 kV line No. 2094 Loudoun - Racefield to be rated for 4000A continuous current rating</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.342</u> | <u>Upgrade and install equipment at Loudoun substation for 230 kV line No. 2045 Loudoun - North Star to be rated for 4000A continuous current rating</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.343</u> | <u>Upgrade and install equipment at Loudoun substation for 230 kV line No. 2030 Loudoun - Mint Springs to be rated for 4000A continuous current rating</u>  |  | <u>Dominion (100%)</u> |

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                         |  |  |  |
|-------------------------|--|--|--|
| <p><u>b3800.344</u></p> | <p><u>Upgrade and install equipment at Loudoun substation to support the new conductor 5000A rating for 500 kV line No. 569 Loudoun - Morrisville</u></p>  |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (11.72%) / Dominion (88.28%)</u></p> |
| <p><u>b3800.345</u></p> | <p><u>Revise relay settings at 230 kV Mint Springs station</u></p>   |  | <p><u>Dominion (100%)</u></p>  |
| <p><u>b3800.346</u></p> | <p><u>Upgrade and install equipment at Morrisville substation to support the new 500 kV conductor termination. All terminal equipment to be rated for 5000A for 500 kV line No. 545 and No. 569. Upgrade 500 kV bus 2 to 5000A</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (11.72%) / Dominion (88.28%)</u></p> |
| <p><u>b3800.347</u></p> | <p><u>Revise relay settings at North Star 230 kV station</u></p>   |  | <p><u>Dominion (100%)</u></p>  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |   |  |   |
|------------------|---|--|---|
| <u>b3800.348</u> | <u>Revise relay settings at Racefield 230 kV station</u>  |  | <u>Dominion (100%)</u>  |
| <u>b3800.349</u> | <u>Revise relay settings at Railroad 230 kV station</u>   |  | <u>Dominion (100%)</u>  |
| <u>b3800.350</u> | <u>Install terminal equipment at Vint Hill 500 kV substation to support a 5000A line to 500 kV Morrisville substation. Update relay settings for 230 kV lines No. 2101, No. 2163, and 500 kV line No. 535</u> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (9.79%) / Dominion (90.21%)</u></p> |
| <u>b3800.351</u> | <u>Update relay settings at Vint Hill for 230 kV line No. 2101 Vint Hill - Bristers</u>   |  | <u>Dominion (100%)</u>  |
| <u>b3800.352</u> | <u>Update relay settings at Vint Hill for 230 kV line No. 2163 Vint Hill - Liberty</u>  |  | <u>Dominion (100%)</u>  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                         |   |  |  |
|-------------------------|---|--|--|
| <p><u>b3800.353</u></p> | <p><u>Update relay settings at Vint Hill for 500 kV line No. 535 Vint Hill - Loudoun</u></p>  |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (13.93%) / BGE (6.86%) / Dominion (70.92%) / PEPCO (8.29%)</u></p> |
| <p><u>b3800.354</u></p> | <p><u>Install terminal equipment at Wishing Star 500 kV substation to support a 5000A line to Vint Hill. Update relay settings for 500 kV lines No. 546 and No. 590</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (21.45%) / Dominion (78.55%)</u></p>                               |
| <p><u>b3800.355</u></p> | <p><u>Revise relay settings at Youngs Branch 230 kV station</u></p>   |  | <p><u>Dominion (100%)</u></p>  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                         |   |  |  |
|-------------------------|---|--|--|
| <p><u>b3800.356</u></p> | <p><u>Build a new 500 kV line from Vint Hill to Wishing Star. The line will be supported on single circuit monopoles. New conductor to have a summer rating of 4357 MVA. Line length is approximately 16.59 miles</u></p> |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (21.45%) / Dominion (78.55%)</u></p> |
| <p><u>b3800.357</u></p> | <p><u>Build a new 500 kV line from Morrisville to Vint Hill. New conductor to have a summer rating of 4357 MVA. Line length is approximately 19.71 miles</u></p>  |  | <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <hr/> <p><b><u>DFAX Allocation:</u></b><br/> <u>APS (9.79%) / Dominion (90.21%)</u></p>  |
| <p><u>b3800.358</u></p> | <p><u>Replace single unit Locks 230/115 kV 168 MVA transformer TX No.7 with new single unit transformer with a rating of 224 MVA. Lead lines at the 115 kV level will be upgraded to 2000A</u></p>                        |  | <p><u>Dominion (100%)</u></p>  |

\*Neptune Regional Transmission System, LLC

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |  |  |                        |
|------------------|--|--|------------------------|
| <u>b3800.359</u> | <u>Wreck and rebuild 230 kV line No. 2090 Ladysmith CT - Summit D.P. segment as a double circuit 230 kV line to achieve a summer rating of 1573 MVA. Only one circuit will be wired at this stage. Upgrade circuit breaker leads, switches and line leads at Ladysmith CT to 4000A</u> |  | <u>Dominion (100%)</u> |
| <u>b3800.360</u> | <u>Rebuild 230 kV line No. 2054 Charlottesville - Proffit DP using double-circuit capable 500/230 kV poles. (The 500 kV circuit will not be wired as part of this project)</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.361</u> | <u>Rebuild 230 kV line No. 233 Charlottesville - Hydraulic Road - Barracks Road - Crozet-Dooms</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.362</u> | <u>Rebuild 230 kV line No. 291 segment from Charlottesville - Barracks Road</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.363</u> | <u>Rebuild 230 kV line No. 291 segment from Barracks Road - Crozet</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.364</u> | <u>Rebuild 230 kV line No. 291 segment Crozet - Dooms</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.365</u> | <u>Hollymeade substation Relay Revision for 230 kV line No. 2054 Charlottesville - Hollymeade</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.366</u> | <u>Upgrade the terminal equipment at 230 kV Charlottesville station to 4000A for 230 kV line No. 2054 (Charlottesville - Hollymeade)</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.367</u> | <u>Proffit DP substation Relay revision for 230 kV line No. 2054 Charlottesville - Hollymeade</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.368</u> | <u>Barracks Road substation relay reset to accommodate the rebuilt line 230 kV lines No. 233 and No. 291</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.369</u> | <u>Crozet substation relay reset to accommodate the rebuilt 230 kV lines No. 233 and No. 291</u>   |  | <u>Dominion (100%)</u> |

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |  |  |                        |
|------------------|--|--|------------------------|
| <u>b3800.370</u> | <u>Charlottesville 230 kV substation terminal equipment upgrade for 230 kV lines No. 233 and No. 291 rebuild</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.371</u> | <u>Upgrade Hydraulic Road substation equipment for 230 kV line No. 233 and No. 291 rebuild</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.372</u> | <u>Dooms substation terminal equipment upgrade for 230 kV line No. 233 and No. 291 rebuild</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.373</u> | <u>Wreck and rebuild approximately 7.14 miles of 230 kV line No. 256 from St. Johns to structure 256/108 to achieve a summer rating of 1573 MVA. Line switch 25666 at St. Johns to be upgraded to 4000A</u>              |  | <u>Dominion (100%)</u> |
| <u>b3800.374</u> | <u>Reconductor approximately 5.30 miles of 230 kV line No. 256 from Ladysmith CT to structure 256/107 to achieve a summer rating of 1573 MVA. Terminal equipment at remote end substations will be upgraded to 4000A</u> |  | <u>Dominion (100%)</u> |
| <u>b3800.401</u> | <u>Replace Ashburn 230 kV breaker SC432 with a breaker rated 63 kA</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.402</u> | <u>Replace Beaumeade 230 kV breaker 227T2152 with a breaker rated 80 kA</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.403</u> | <u>Replace BECO 230 kV breakers 215012 and H12T2150 with breakers rated 63 kA</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.404</u> | <u>Replace Belmont 230 kV breaker 227T2180 with a breaker rated 80 kA</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.405</u> | <u>Replace Brambleton 230 kV breakers 20102, 20602, 204502, 209402, 201T2045, 206T2094 with breakers rated 80 kA</u>   |  | <u>Dominion (100%)</u> |
| <u>b3800.406</u> | <u>Replace Gainesville 230 kV breaker 216192 with a breaker rated 80 kA</u>  |  | <u>Dominion (100%)</u> |

**Virginia Electric and Power Company (cont.)**

**Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)**

|                  |   |  |                        |
|------------------|---|--|------------------------|
| <u>b3800.407</u> | <u>Replace Loudoun 230 kV breakers 204552, 217352 with breakers rated 80 kA</u>                                     |  | <u>Dominion (100%)</u> |
| <u>b3800.408</u> | <u>Replace Ox 230 kV breakers 22042, 24342, 24842, 220T2063, 243T2097, 248T2013, H342 with breakers rated 80 kA</u> |  | <u>Dominion (100%)</u> |
| <u>b3800.409</u> | <u>Replace Paragon Park 230 kV breakers 208132, 215032, 2081T2206, 2150T2207 with breakers rated 80 kA</u>          |  | <u>Dominion (100%)</u> |
| <u>b3800.410</u> | <u>Replace Reston 230 kV breaker 264T2015 with a breaker rated 63 kA</u>  |  | <u>Dominion (100%)</u> |
| <u>b3800.411</u> | <u>Replace Stonewater 230 kV breakers 20662-1, 20662-2, 217862-1, 217862-2 with breakers rated 80 kA</u>            |  | <u>Dominion (100%)</u> |
| <u>b3800.412</u> | <u>Replace Waxpool 230 kV breakers 214922-5, 214922-6, 216622-5, 216622-6 with breakers rated 63 kA</u>             |  | <u>Dominion (100%)</u> |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix A  
Section 33 – Keystone Appalachian  
Transmission Co.

Version 0.0.0  
Effective January 1, 2024  
(Accepted in Docket No. ER24-284-000)

**SCHEDULE 12 – APPENDIX A**

**(33) Keystone Appalachian Transmission Company**

Required Transmission Enhancements    Annual Revenue Requirement    Responsible Customer(s)

|                 |   |  |                   |
|-----------------|---|--|-------------------|
| <u>b2120</u>    | <u>Six-Wire Lake Lynn - Lardin<br/>138 kV circuits</u>  |  | <u>APS (100%)</u> |
| <u>b2174.8</u>  | <u>Replace relays at Mitchell<br/>substation</u>  |  | <u>APS (100%)</u> |
| <u>b2174.9</u>  | <u>Replace primary relay at Piney<br/>Fork substation</u>   |  | <u>APS (100%)</u> |
| <u>b2174.10</u> | <u>Perform relay setting changes<br/>at Bethel Park substation</u>  |  | <u>APS (100%)</u> |
| <u>b2213</u>    | <u>Armstrong Substation:<br/>Relocate 138 kV controls from<br/>the generating station building<br/>to new control building</u>  |  | <u>APS (100%)</u> |
| <u>b2300</u>    | <u>Reconductor from Lake Lynn -<br/>West Run 138 kV</u>   |  | <u>APS (100%)</u> |
| <u>b2341</u>    | <u>Install 39.6 MVAR Capacitor<br/>at Shaffers Corner 138 kV<br/>Substation</u>   |  | <u>APS (100%)</u> |
| <u>b2362</u>    | <u>Install a 250 MVAR SVC at<br/>Squab Hollow 230 kV</u>  |  | <u>APS (100%)</u> |
| <u>b2362.1</u>  | <u>Install a 230 kV breaker at<br/>Squab Hollow 230 kV<br/>substation</u>   |  | <u>APS (100%)</u> |
| <u>b2363</u>    | <u>Convert the Shingletown 230<br/>kV bus into a 6 breaker ring<br/>bus</u>   |  | <u>APS (100%)</u> |
| <u>b2364</u>    | <u>Install a new 230/138 kV<br/>transformer at Squab Hollow<br/>230 kV substation. Loop the<br/>Forest - Elko 230 kV line into<br/>Squab Hollow. Loop the<br/>Brookville - Elko 138 kV line<br/>into Squab Hollow</u> |  | <u>APS (100%)</u> |
| <u>b2412</u>    | <u>Install a 44 MVAR 138 kV<br/>capacitor at the Hempfield 138<br/>kV substation</u>  |  | <u>APS (100%)</u> |

**Keystone Appalachian Transmission Company (cont.)**

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

|                |   |  |                   |
|----------------|---|--|-------------------|
| <u>b2440</u>   | <u>Replace the Cabot 138kV breaker 'C9-KISKI VLY' with 63kA</u>   |  | <u>APS (100%)</u> |
| <u>b2546</u>   | <u>Install a 51.8 MVAR (rated) 138 kV capacitor at Nyswaner 138 kV substation</u>   |  | <u>APS (100%)</u> |
| <u>b2547.1</u> | <u>Construct a new 138 kV six breaker ring bus Hillman substation</u>   |  | <u>APS (100%)</u> |
| <u>b2547.2</u> | <u>Loop Smith- Imperial 138 kV line into the new Hillman substation</u>   |  | <u>APS (100%)</u> |
| <u>b2547.3</u> | <u>Install +125/-75 MVAR SVC at Hillman substation</u>  |  | <u>APS (100%)</u> |
| <u>b2547.4</u> | <u>Install two 31.7 MVAR 138 kV capacitors</u>  |  | <u>APS (100%)</u> |
| <u>b2548</u>   | <u>Eliminate clearance de-rate on Wylie Ridge – Smith 138 kV line and upgrade terminals at Smith 138 kV, new line ratings 294 MVA (Rate A)/350 MVA (Rate B)</u> |  | <u>APS (100%)</u> |
| <u>b2612.1</u> | <u>Relocate All Dam 6 138 kV line and the 138 kV line to AE units 1&amp;2</u>   |  | <u>APS (100%)</u> |
| <u>b2612.2</u> | <u>Install 138 kV, 3000A bus-tie breaker in the open bus-tie position next to the Shaffers corner 138 kV line</u>   |  | <u>APS (100%)</u> |
| <u>b2612.3</u> | <u>Install a 6-pole manual switch, foundation, control cable, and all associated facilities</u>   |  | <u>APS (100%)</u> |
| <u>b2666</u>   | <u>Yukon 138 kV Breaker Replacement</u>   |  | <u>APS (100%)</u> |
| <u>b2666.1</u> | <u>Replace Yukon 138 kV breaker “Y-11(CHARL1)” with an 80 kA breaker</u>  |  | <u>APS (100%)</u> |

**Keystone Appalachian Transmission Company (cont.)**

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

|                 |   |  |                   |
|-----------------|---|--|-------------------|
| <u>b2666.2</u>  | <u>Replace Yukon 138 kV breaker “Y-13(BETHEL)” with an 80 kA breaker</u>  |  | <u>APS (100%)</u> |
| <u>b2666.3</u>  | <u>Replace Yukon 138 kV breaker “Y-18(CHARL2)” with an 80 kA breaker</u>  |  | <u>APS (100%)</u> |
| <u>b2666.4</u>  | <u>Replace Yukon 138 kV breaker “Y-19(CHARL2)” with an 80 kA breaker</u>  |  | <u>APS (100%)</u> |
| <u>b2666.5</u>  | <u>Replace Yukon 138 kV breaker “Y-4(4B-2BUS)” with an 80 kA breaker</u>  |  | <u>APS (100%)</u> |
| <u>b2666.6</u>  | <u>Replace Yukon 138 kV breaker “Y-5(LAYTON)” with an 80 kA breaker</u>   |  | <u>APS (100%)</u> |
| <u>b2666.7</u>  | <u>Replace Yukon 138 kV breaker “Y-8(HUNTING)” with an 80 kA breaker</u>  |  | <u>APS (100%)</u> |
| <u>b2666.8</u>  | <u>Replace Yukon 138 kV breaker “Y-9(SPRINGD)” with an 80 kA breaker</u>  |  | <u>APS (100%)</u> |
| <u>b2666.9</u>  | <u>Replace Yukon 138 kV breaker “Y-10(CHRL-SP)” with an 80 kA breaker</u> |  | <u>APS (100%)</u> |
| <u>b2666.10</u> | <u>Replace Yukon 138 kV breaker “Y-12(1-1BUS)” with an 80 kA breaker</u>  |  | <u>APS (100%)</u> |
| <u>b2666.11</u> | <u>Replace Yukon 138 kV breaker “Y-14(4-1BUS)” with an 80 kA breaker</u>  |  | <u>APS (100%)</u> |
| <u>b2666.12</u> | <u>Replace Yukon 138 kV breaker “Y-2(1B-BETHE)” with an 80 kA breaker</u> |  | <u>APS (100%)</u> |
| <u>b2666.13</u> | <u>Replace Yukon 138 kV breaker “Y-21(SHEPJ)” with an 80 kA breaker</u>   |  | <u>APS (100%)</u> |
| <u>b2666.14</u> | <u>Replace Yukon 138 kV breaker “Y-22(SHEPHJT)” with an 80 kA breaker</u> |  | <u>APS (100%)</u> |

**Keystone Appalachian Transmission Company (cont.)**

**Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)**

|                |   |  |                                   |
|----------------|---|--|-----------------------------------|
| <u>b2689.3</u> | <u>Upgrade terminal equipment at structure 27A</u>  |  | <u>APS (100%)</u>                 |
| <u>b2696</u>   | <u>Upgrade 138 kV substation equipment at Butler, Shanor Manor and Krendale substations. New rating of line will be 353 MVA summer normal/422 MVA emergency</u>                                 |  | <u>APS (100%)</u>                 |
| <u>b2763</u>   | <u>Replace the breaker risers and wave trap at Bredinville 138 kV substation on the Cabrey Junction 138 kV terminal</u>   |  | <u>APS (100%)</u>                 |
| <u>b2965</u>   | <u>Reconductor the Charleroi – Allenport 138 kV line with 954 ACSR conductor. Replace breaker risers at Charleroi and Allenport</u>   |  | <u>APS (37.15%) / DL (62.85%)</u> |
| <u>b2966</u>   | <u>Reconductor the Yukon – Smithton – Shepler Hill Jct 138 kV line with 795 ACSS conductor. Replace Line Disconnect Switch at Yukon</u>   |  | <u>APS (100%)</u>                 |
| <u>b2966.1</u> | <u>Reconductor the Yukon - Smithton - Shepler Hill Jct 138 kV line and replace terminal equipment as necessary to achieve required rating</u>   |  | <u>APS (100%)</u>                 |
| <u>b2967</u>   | <u>Convert the existing 6 wire Butler - Shanor Manor - Krendale 138 kV line into two separate 138 kV lines. New lines will be Butler - Keisters and Butler - Shanor Manor - Krendale 138 kV</u> |  | <u>APS (100%)</u>                 |

**Keystone Appalachian Transmission Company (cont.)**

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

|                |   |  |                                   |
|----------------|---|--|-----------------------------------|
| <u>b3005</u>   | <u>Reconductor 3.1 mile 556 ACSR portion of Cabot to Butler 138 kV with 556 ACSS and upgrade terminal equipment. 3.1 miles of line will be reconducted for this project. The total length of the line is 7.75 miles</u>   |  | <u>APS (100%)</u>                 |
| <u>b3006</u>   | <u>Replace four Yukon 500/138 kV transformers with three transformers with higher rating and reconfigure 500 kV bus</u>   |  | <u>APS (63.21%) / DL (36.79%)</u> |
| <u>b3007.1</u> | <u>Reconductor the Blairsville East to Social Hall 138 kV line and upgrade terminal equipment - AP portion. 4.8 miles total. The new conductor will be 636 ACSS replacing the existing 636 ACSR conductor. At Social Hall, meters, relays, bus conductor, a wave trap, circuit breaker and disconnects will be replaced</u> |  | <u>APS (100%)</u>                 |
| <u>b3010</u>   | <u>Replace terminal equipment at Keystone and Cabot 500 kV buses. At Keystone, bus tubing and conductor, a wave trap, and meter will be replaced. At Cabot, a wave trap and bus conductor will be replaced</u>  |  | <u>APS (100%)</u>                 |
| <u>b3011.1</u> | <u>Construct new Route 51 substation and connect 10 138 kV lines to new substation</u>  |  | <u>DL (100%)</u>                  |
| <u>b3011.2</u> | <u>Upgrade terminal equipment at Yukon to increase rating on Yukon to Charleroi #2 138 kV line (New Yukon to Route 51 #4 138 kV line)</u>   |  | <u>APS (22.82%) / DL (77.18%)</u> |
| <u>b3011.3</u> | <u>Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #1 138 kV line</u>   |  | <u>DL (100%)</u>                  |

**Keystone Appalachian Transmission Company (cont.)**

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

|                |  |  |                                    |
|----------------|--|--|------------------------------------|
| <u>b3011.4</u> | <u>Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #2 138 kV line</u>  |  | <u>DL (100%)</u>                   |
| <u>b3011.5</u> | <u>Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #3 138 kV line</u>  |  | <u>APS (22.82%) / DL (77.18%)</u>  |
| <u>b3011.6</u> | <u>Upgrade remote end relays for Yukon – Allenport – Iron Bridge 138 kV line</u>   |  | <u>DL (100%)</u>                   |
| <u>b3012.1</u> | <u>Construct two new 138 kV ties with the single structure from APS’s new substation to Duquesne’s new substation. The estimated line length is approximately 4.7 miles. The line is planned to use multiple ACSS conductors per phase</u> |  | <u>ATSI (38.21%) / DL (61.79%)</u> |
| <u>b3012.3</u> | <u>Construct a new Elrama – Route 51 138 kV No.3 line: reconductor 4.7 miles of the existing line, and construct 1.5 miles of a new line to the reconducted portion. Install a new line terminal at APS Route 51 substation</u>            |  | <u>DL (100%)</u>                   |
| <u>b3013</u>   | <u>Reconductor Vasco Tap to Edgewater Tap 138 kV line. 4.4 miles. The new conductor will be 336 ACSS replacing the existing 336 ACSR conductor</u>   |  | <u>APS (100%)</u>                  |
| <u>b3015.6</u> | <u>Reconductor Elrama to Mitchell 138 kV line – AP portion. 4.2 miles total. 2x 795 ACSS/TW 20/7</u>   |  | <u>DL (100%)</u>                   |
| <u>b3015.8</u> | <u>Upgrade terminal equipment at Mitchell for Mitchell – Elrama 138 kV line</u>  |  | <u>APS (100%)</u>                  |

**Keystone Appalachian Transmission Company (cont.)**

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

|                |  |  |                                   |
|----------------|--|--|-----------------------------------|
| <u>b3064.3</u> | <u>Upgrade line relaying at Piney Fork and Bethel Park for Piney Fork – Elrama 138 kV line and Bethel Park – Elrama 138 kV</u>                                   |  | <u>APS (100%)</u>                 |
| <u>b3068</u>   | <u>Reconductor the Yukon – Westraver 138 kV line (2.8 miles), replace the line drops and relays at Yukon 138 kV and replace switches at Westraver 138 kV bus</u> |  | <u>APS (100%)</u>                 |
| <u>b3069</u>   | <u>Reconductor the Westraver – Route 51 138 kV line (5.63 miles) and replace line switches at Westraver 138 kV bus</u>   |  | <u>APS (100%)</u>                 |
| <u>b3070</u>   | <u>Reconductor the Yukon – Route 51 #1 138 kV line (8 miles), replace the line drops, relays and line disconnect switch at Yukon 138 kV bus</u>                  |  | <u>APS (100%)</u>                 |
| <u>b3071</u>   | <u>Reconductor the Yukon – Route 51 #2 138 kV line (8 miles) and replace relays at Yukon 138 kV bus</u>  |  | <u>APS (100%)</u>                 |
| <u>b3072</u>   | <u>Reconductor the Yukon – Route 51 #3 138 kV line (8 miles) and replace relays at Yukon 138 kV bus</u>  |  | <u>APS (100%)</u>                 |
| <u>b3074</u>   | <u>Reconductor the 138 kV bus at Armstrong substation</u>  |  | <u>APS (100%)</u>                 |
| <u>b3075</u>   | <u>Replace the 500/138 kV transformer breaker and reconductor 138 kV bus at Cabot substation</u>   |  | <u>APS (100%)</u>                 |
| <u>b3076</u>   | <u>Reconductor the Edgewater – Loyalhanna 138 kV line (0.67 mile)</u>  |  | <u>APS (100%)</u>                 |
| <u>b3083</u>   | <u>Reconductor the 138 kV bus at Butler and reconductor the 138 kV bus and replace line trap at Karns City</u>   |  | <u>APS (100%)</u>                 |
| <u>b3214.1</u> | <u>Reconductor the Yukon – Smithton – Shepler Hill Jct 138 kV Line. Upgrade terminal equipment at Yukon and replace line relaying at Mitchell and Charleroi</u>  |  | <u>APS (12.21%) / DL (87.79%)</u> |
| <u>b3214.2</u> | <u>Reconductor the Smithton – Shepler Hill Jct 138 kV Line</u>   |  | <u>APS (4.74%) / DL (95.26%)</u>  |
| <u>b3230</u>   | <u>At Enon substation install a second 138 kV, 28.8 MVAR nameplate, capacitor and the associated 138 kV capacitor switcher</u>                                   |  | <u>APS (100%)</u>                 |

**Keystone Appalachian Transmission Company (cont.)**

**Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)**

|              |  |  |                   |
|--------------|--|--|-------------------|
| <u>b3318</u> | <u>Reconductor the Shanor Manor - Butler 138 kV line with an upgraded circuit breaker at Butler 138 kV station</u>   |  | <u>APS (100%)</u> |
| <u>b3325</u> | <u>Reconductor the Charleroi - Union 138 kV line and upgrade terminal equipment at Charleroi 138 kV station</u>  |  | <u>APS (100%)</u> |
| <u>b3681</u> | <u>Upgrade the Shingletown #82 230/46 kV Transformer circuit by installing a 230 kV breaker and disconnect switches, removing existing 230 kV switches, replacing 46 kV disconnect switches, replacing limiting substation conductor, and installing/replacing relays</u>  |  | <u>APS (100%)</u> |
| <u>b3710</u> | <u>Reconductor AA2-161 to Yukon 138 kV Lines #1 and #2 with 954 ACSS conductor</u>   |  | <u>APS (100%)</u> |
| <u>b3738</u> | <u>Replace limiting terminal equipment on Charleroi – Dry Run 138 kV line</u>  |  | <u>APS (100%)</u> |
| <u>b3739</u> | <u>Replace limiting terminal equipment on Dry Run – Mitchell 138 kV line</u>   |  | <u>APS (100%)</u> |
| <u>b3740</u> | <u>Replace limiting terminal equipment on Glen Falls –Bridgeport 138 kV line</u>   |  | <u>APS (100%)</u> |
| <u>b3741</u> | <u>Replace limiting terminal equipment on Yukon - Charleroi #1 138 kV line</u>   |  | <u>APS (100%)</u> |
| <u>b3742</u> | <u>Replace limiting terminal equipment on Yukon - Charleroi #2 138 kV line</u>   |  | <u>APS (100%)</u> |
| <u>b3744</u> | <u>Replace one span of 1272 ACSR from Krendale substation to structure 35 (approximately 630 feet)<br/>Replace one span of 1272 ACSR from Shanor Manor to structure 21 (approximately 148 feet) Replace 1272 ACSR risers at Krendale and Shanor Manor substations<br/>Replace 1272 ACSR substation conductor at Krendale substation Replace relaying at Krendale substation<br/>Revise relay settings at Butler and Shanor Manor substations</u> |  | <u>APS (100%)</u> |

**Keystone Appalachian Transmission Company (cont.)**

Required Transmission Enhancements   Annual Revenue Requirement   Responsible Customer(s)

|              |  |  |                   |
|--------------|--|--|-------------------|
| <u>b3745</u> | <u>Install redundant relaying at Carbon Center 230 kV substation</u>   |  | <u>APS (100%)</u> |
| <u>b3761</u> | <u>Install 138 kV breaker on the Ridgway 138/46 kV #2 Transformer</u>  |  | <u>APS (100%)</u> |
| <u>b3773</u> | <u>Install 33 MVAR switched capacitor, 138 kV breaker, and associated relaying at McConnellsburg 138 kV substation</u> |  | <u>APS (100%)</u> |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix C  
SAA Cost Responsibility

Version 3.0.0

Effective January 1, 2024

(Accepted in Docket No. ER24-786-000)

## **Schedule 12 - Appendix C**

### **State Agreement Public Policy Projects Constructed Pursuant to the State Agreement Approach**

This Schedule 12 - Appendix C applies only to the assignment of cost responsibility of State Agreement Public Policy Projects constructed in accordance with Operating Agreement, Schedule 6, section 1.5.9 among Responsible Customers.

**(1) Rate Schedule FERC No. 49, State Agreement Approach Agreement By and Among PJM Interconnection, L.L.C. and New Jersey Board of Public Utilities**

In accordance with the FERC order in Docket Nos. ER22-2690-000 and -001, 181 FERC ¶ 61,178 (2022), cost responsibility for the State Agreement Public Policy Projects shall be assigned annually on a load-ratio share basis among Network Customers in the State of New Jersey determined in accordance with Schedule 12, section (c)(4), and customers using Point-to-Point Transmission Service with a Point of Delivery within the State of New Jersey determined in accordance with Schedule 12, section (c)(5), as follows:

With respect to each Zone located in the State of New Jersey, using, consistent with Tariff, Part III, section 34.1, the applicable zonal loads at the time of such Zone’s annual peak load from the 12-month period ending October 31 preceding the calendar year for which the annual cost responsibility allocation is determined.

| <b>Identifier</b> | <b>Description</b>   | <b>Responsible Customers<br/>(percentage share)</b>  | <b><u>Transmission<br/>Owner</u></b>            |
|-------------------|--|--|---|
| b3737.1           | Reconfigure Larrabee 230 kV substation   | AEC ( <del>13.64</del> 14.36%) / JCPL ( <del>31.98</del> 31.31%) / PSEG ( <del>52.17</del> 52.23%) / RE ( <del>2.21</del> 2.10%) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.2           | Larrabee substation – 230 kV equipment for direct connection   | AEC ( <del>13.64</del> 14.36%) / JCPL ( <del>31.98</del> 31.31%) / PSEG ( <del>52.17</del> 52.23%) / RE ( <del>2.21</del> 2.10%) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.3           | Lakewood Generator substation – Update relay settings on the Larrabee 230 kV line  | AEC ( <del>13.64</del> 14.36%) / JCPL ( <del>31.98</del> 31.31%) / PSEG ( <del>52.17</del> 52.23%) / RE ( <del>2.21</del> 2.10%) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.4           | B54 Larrabee – South Lockwood 34.5 kV line transfer  | AEC ( <del>13.64</del> 14.36%) / JCPL ( <del>31.98</del> 31.31%) / PSEG ( <del>52.17</del> 52.23%) / RE ( <del>2.21</del> 2.10%) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.5           | Larrabee Collector station – Larrabee 230 kV new line  | AEC ( <del>13.64</del> 14.36%) / JCPL ( <del>31.98</del> 31.31%) / PSEG ( <del>52.17</del> 52.23%) / RE ( <del>2.21</del> 2.10%) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.6           | Larrabee Collector station – Smithburg No.1 500 kV line (new asset). New 500 kV line will be built double circuit to accommodate a 500 kV line and a 230 kV line | AEC ( <del>13.64</del> 14.36%) / JCPL ( <del>31.98</del> 31.31%) / PSEG ( <del>52.17</del> 52.23%) / RE ( <del>2.21</del> 2.10%) | <u>Jersey Central Power &amp; Light Company</u> |

|         |  |  |   |
|---------|--|--|---|
| b3737.7 | Rebuild G1021 Atlantic – Smithburg 230 kV line between the Larrabee and Smithburg substations as a double circuit 500 kV/230 kV line | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
|---------|--|--|---|

| <b>Identifier</b> | <b>Description</b>  | <b>Responsible Customers<br/>(percentage share)</b>  | <b><u>Transmission Owner</u></b>                |
|-------------------|---|--|---|
| b3737.8           | Smithburg substation 500 kV expansion to 4-breaker ring   | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.9           | Larrabee substation upgrades  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.10          | Atlantic 230 kV substation – Convert to double-breaker double-bus   | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.11          | Freneau substation – Update relay settings on the Atlantic 230 kV line  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.12          | Smithburg substation – Update relay settings on the Atlantic 230 kV line  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.13          | Oceanview substation – Update relay settings on the Atlantic 230 kV lines   | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.14          | Red Bank substation – Update relay settings on the Atlantic 230 kV lines  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.15          | South River substation – Update relay settings on the Atlantic 230 kV line  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.16          | Larrabee substation – Update relay settings on the Atlantic 230 kV line   | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.17          | Atlantic substation – Construct a new 230 kV line terminal position to accept the generator lead line from the offshore wind Larrabee Collector station | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.18          | G1021 (Atlantic – Smithburg) 230 kV upgrade   | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG  | <u>Jersey Central Power &amp; Light Company</u> |

|          |   |   |   |
|----------|---|---|---|
|          |   | ( <del>52.1752.23</del> %) / RE<br>( <del>2.212.10</del> %)   |   |
| b3737.19 | R1032 (Atlantic – Larrabee) 230 kV upgrade            | AEC ( <del>13.6414.36</del> %) / JCPL<br>( <del>31.9831.31</del> %) / PSEG<br>( <del>52.1752.23</del> %) / RE<br>( <del>2.212.10</del> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.20 | New Larrabee Collector station – Atlantic 230 kV line | AEC ( <del>13.6414.36</del> %) / JCPL<br>( <del>31.9831.31</del> %) / PSEG<br>( <del>52.1752.23</del> %) / RE<br>( <del>2.212.10</del> %) | <u>Jersey Central Power &amp; Light Company</u> |

| <b>Identifier</b> | <b>Description</b>  | <b>Responsible Customers<br/>(percentage share)</b>   | <b><u>Transmission<br/>Owner</u></b>                    |
|-------------------|---|---|---|
| b3737.21          | Larrabee – Oceanview 230 kV line upgrade  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL<br>( <del>31.98</del> <u>31.31</u> %) / PSEG<br>( <del>52.17</del> <u>52.23</u> %) / RE<br>( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central<br/>Power &amp; Light<br/>Company</u> |
| b3737.22          | Construct the Larrabee Collector station AC switchyard, composed of a 230 kV 3 bay breaker and a half substation with a nominal current rating of 4000 A and four single phase 500/230 kV 450 MVA autotransformers to step up the voltage for connection to the Smithburg substation. Procure land adjacent to the AC switchyard, and prepare the site for construction of future AC to DC converters for future interconnection of DC circuits from offshore wind generation. Land should be suitable to accommodate installation of four individual converters to accommodate circuits with equivalent rating of 1400 MVA at 400 kV | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL<br>( <del>31.98</del> <u>31.31</u> %) / PSEG<br>( <del>52.17</del> <u>52.23</u> %) / RE<br>( <del>2.21</del> <u>2.10</u> %) | <u>Mid-Atlantic<br/>Offshore<br/>Development, LLC</u>   |
| b3737.23          | Rebuild the underground portion of Richmond – Waneeta 230 kV line   | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL<br>( <del>31.98</del> <u>31.31</u> %) / PSEG<br>( <del>52.17</del> <u>52.23</u> %) / RE<br>( <del>2.21</del> <u>2.10</u> %) | <u>Atlantic City<br/>Electric Company</u>               |
| b3737.24          | Upgrade Cardiff – Lewis 138 kV by replacing 1590 kcmil strand bus inside Lewis substation   | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL<br>( <del>31.98</del> <u>31.31</u> %) / PSEG<br>( <del>52.17</del> <u>52.23</u> %) / RE<br>( <del>2.21</del> <u>2.10</u> %) | <u>Atlantic City<br/>Electric Company</u>               |
| b3737.25          | Upgrade Lewis No. 2 – Lewis No. 1 138 kV by replacing its bus tie with 2000 A circuit breaker   | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL<br>( <del>31.98</del> <u>31.31</u> %) / PSEG<br>( <del>52.17</del> <u>52.23</u> %) / RE<br>( <del>2.21</del> <u>2.10</u> %) | <u>Atlantic City<br/>Electric Company</u>               |
| b3737.26          | Upgrade Cardiff – New Freedom 230 kV by modifying existing relay setting to increase relay limit  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL<br>( <del>31.98</del> <u>31.31</u> %) / PSEG<br>( <del>52.17</del> <u>52.23</u> %) / RE<br>( <del>2.21</del> <u>2.10</u> %) | <u>Atlantic City<br/>Electric Company</u>               |
| b3737.27          | Rebuild approximately 0.8 miles of the D1018 (Clarksville –Lawrence 230 kV) line between Lawrence substation (PSEG) and structure No. 63  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL<br>( <del>31.98</del> <u>31.31</u> %) / PSEG<br>( <del>52.17</del> <u>52.23</u> %) / RE<br>( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central<br/>Power &amp; Light<br/>Company</u> |
| b3737.28          | Reconductor Kilmer I – Lake Nelson I 230 kV   | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL<br>( <del>31.98</del> <u>31.31</u> %) / PSEG<br>( <del>52.17</del> <u>52.23</u> %) / RE<br>( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central<br/>Power &amp; Light<br/>Company</u> |

|          |   |   |   |
|----------|---|---|---|
| b3737.29 | Convert the six-wired East Windsor – Smithburg E2005 230 kV line (9.0 miles) to two circuits: One a 500 kV line and the other a 230 kV line | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL<br>( <del>31.98</del> <u>31.31</u> %) / PSEG<br>( <del>52.17</del> <u>52.23</u> %) / RE<br>( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
|----------|---|---|---|

| <b>Identifier</b> | <b>Description</b>  | <b>Responsible Customers<br/>(percentage share)</b>   | <b><u>Transmission Owner</u></b>                    |
|-------------------|---|---|---|
| b3737.30          | Add third Smithburg 500/230 kV transformer  | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp;<br/>Light Company</u> |
| b3737.31          | Additional reconductoring required for Lake Nelson I – Middlesex 230 kV line  | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp;<br/>Light Company</u> |
| b3737.32          | Rebuild Larrabee – Smithburg No. 1 230 kV line  | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp;<br/>Light Company</u> |
| b3737.33          | Reconductor Red Oak A – Raritan River 230 kV line   | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp;<br/>Light Company</u> |
| b3737.34          | Reconductor Red Oak B – Raritan River 230 kV line   | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp;<br/>Light Company</u> |
| b3737.35          | Reconductor small section of Raritan River – Kilmer I 230 kV line   | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp;<br/>Light Company</u> |
| b3737.36          | Replace substation conductor at Kilmer and reconductor Raritan River – Kilmer W 230 kV line   | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp;<br/>Light Company</u> |
| b3737.37          | Add a third set of submarine cables, rerate the overhead segment, and upgrade terminal equipment to achieve a higher rating for the Silver Run – Hope Creek 230 kV line   | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Silver Run Electric, LLC</u>                     |
| b3737.38          | Linden subproject: Install a new 345/230 kV transformer at the Linden 345 kV switching station, and relocate the Linden – Tosco 230 kV (B-2254) line from the Linden 230 kV to the existing 345/230 kV transformer at Linden 345 kV station | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Public Service Electric and<br/>Gas Company</u>  |

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|----------|--|---|--|
| b3737.39 | Bergen subproject: Upgrade the Bergen 138 kV ring bus by installing a 80 kA breaker along with the foundation, piles, and relays to the existing ring bus, install breaker isolation switches on existing foundations and modify and extend bus work | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Public Service Electric and Gas Company</u> |
|----------|--|---|--|

| <b>Identifier</b> | <b>Description</b>   | <b>Responsible Customers<br/>(percentage share)</b>   | <b><u>Transmission Owner</u></b>                |
|-------------------|--|---|---|
| b3737.40          | Windsor to Clarksville subproject:<br>Create a paired conductor path between Clarksville 230 kV and JCPL Windsor Switch 230 kV   | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.41          | Windsor to Clarksville subproject:<br>Upgrade all terminal equipment at Windsor 230 kV and Clarksville 230 kV as necessary to create a paired conductor path between Clarksville and JCPL East Windsor Switch 230 kV | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Public Service Electric and Gas Company</u>  |
| b3737.42          | Upgrade inside plant equipment at Lake Nelson I 230 kV station   | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Public Service Electric and Gas Company</u>  |
| b3737.43          | Upgrade Kilmer W – Lake Nelson W 230 kV line drop and strain bus connections at Lake Nelson 230 kV   | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Public Service Electric and Gas Company</u>  |
| b3737.44          | Upgrade Lake Nelson – Middlesex – Greenbrook W 230 kV line drop and strain bus connections at Lake Nelson 230 kV   | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Public Service Electric and Gas Company</u>  |
| b3737.45          | Reconductor 0.33 miles of PPL’s portion of the Gilbert –Springfield 230 kV line  | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>PPL Electric Utilities Corporation</u>       |
| b3737.46          | Install a new breaker at Graceton 230 kV substation to terminate a new 230 kV line from the new greenfield North Delta station   | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Baltimore Gas and Electric Company</u>       |
| b3737.47          | Build a new greenfield North Delta station with two 500/230 kV 1500 MVA transformers and nine 63 kA breakers (four high side and five low side breakers in ring bus configuration)                                   | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>Transource, LLC</u>                          |
| b3737.48          | Build a new North Delta – Graceton 230 kV line by rebuilding 6.07 miles of the existing Cooper – Graceton 230 kV line to double circuit  | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>PECO Energy Company</u>                      |

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| b3737.49 | Bring the Cooper – Graceton 230 kV line “in and out” of North Delta by constructing a new double-circuit North Delta – Graceton 230 kV (0.3 miles) and a new North Delta – Cooper 230 kV (0.4 miles) cut-in lines | AEC ( <del>13.64</del> <u>14.36</u> %) /<br>JCPL ( <del>31.98</del> <u>31.31</u> %) /<br>PSEG ( <del>52.17</del> <u>52.23</u> %) /<br>RE ( <del>2.21</del> <u>2.10</u> %) | <u>PECO Energy Company</u> |
|----------|---|---|----------------------------|

| <b>Identifier</b> | <b>Description</b>   | <b>Responsible Customers<br/>(percentage share)</b>  | <b><u>Transmission<br/>Owner</u></b>            |
|-------------------|--|--|---|
| b3737.50          | Bring the Peach Bottom – Delta Power Plant 500 kV line “in and out” of North Delta by constructing a new Peach Bottom – North Delta 500 kV (0.3 miles) cut-in and cut-out lines  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>PECO Energy Company</u>                      |
| b3737.51          | Replace four 63 kA circuit breakers "205," "235," "225" and "255" at Peach Bottom 500 kV with 80 kA  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>PECO Energy Company</u>                      |
| b3737.52          | Replace one 63 kA circuit breaker "B4" at Conastone 230 kV with 80 kA  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Baltimore Gas and Electric Company</u>       |
| b3737.53          | Remove the existing E83 115 kV line (not in-service) to accommodate the new 500 kV/230 kV lines (approximately 7.7 miles)  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.54          | Remove the existing H2008 Larrabee – Smithburg No. 2 230 kV line to accommodate the new 500 kV/230 kV lines  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.55          | Middlesex substation 230 kV – Replace the 2000A circuit switcher at Middlesex switch point for the Lake Nelson I1023 230 kV exit   | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.56          | Build a new North Delta – Graceton 230 kV line by rebuilding 6.26 miles of the existing Cooper – Graceton 230 kV line to double circuit. Cooper-Graceton is jointly owned by PECO and BGE. This subproject is for BGE's portion of the line rebuild, which is 2.16 miles | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Baltimore Gas and Electric Company</u>       |
| b3737.59          | Windsor to Clarksville subproject: Upgrade terminal equipment at Windsor 230 kV station  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Jersey Central Power &amp; Light Company</u> |
| b3737.60          | Perform a Pre-build Infrastructure evaluation study in alignment with the NJBPU Solicitation Guidance Document requirements  | AEC ( <del>13.64</del> <u>14.36</u> %) / JCPL ( <del>31.98</del> <u>31.31</u> %) / PSEG ( <del>52.17</del> <u>52.23</u> %) / RE ( <del>2.21</del> <u>2.10</u> %) | <u>Mid-Atlantic Offshore Development, LLC</u>   |

PJM Open Access Transmission Tariff  
Schedule 12-Appendix C  
SAA Cost Responsibility

Version 4.0.0  
Effective April 9, 2024  
(Accepted in Docket No. ER24-843-000)

## **Schedule 12 - Appendix C**

### **State Agreement Public Policy Projects Constructed Pursuant to the State Agreement Approach**

This Schedule 12 - Appendix C applies only to the assignment of cost responsibility of State Agreement Public Policy Projects constructed in accordance with Operating Agreement, Schedule 6, section 1.5.9 among Responsible Customers.

**(1) Rate Schedule FERC No. 49, State Agreement Approach Agreement By and Among PJM Interconnection, L.L.C. and New Jersey Board of Public Utilities**

In accordance with the FERC order in Docket Nos. ER22-2690-000 and -001, 181 FERC ¶ 61,178 (2022), cost responsibility for the State Agreement Public Policy Projects shall be assigned annually on a load-ratio share basis among Network Customers in the State of New Jersey determined in accordance with Schedule 12, section (c)(4), and customers using Point-to-Point Transmission Service with a Point of Delivery within the State of New Jersey determined in accordance with Schedule 12, section (c)(5), as follows:

With respect to each Zone located in the State of New Jersey, using, consistent with Tariff, Part III, section 34.1, the applicable zonal loads at the time of such Zone’s annual peak load from the 12-month period ending October 31 preceding the calendar year for which the annual cost responsibility allocation is determined.

| <b>Identifier</b> | <b>Description</b>   | <b>Responsible Customers (percentage share)</b>           |
|-------------------|--|---|
| b3737.1           | Reconfigure Larrabee 230 kV substation   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.2           | Larrabee substation – 230 kV equipment for direct connection   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.3           | Lakewood Generator substation – Update relay settings on the Larrabee 230 kV line  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.4           | B54 Larrabee – South Lockwood 34.5 kV line transfer  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.5           | Larrabee Collector station – Larrabee 230 kV new line  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.6           | Larrabee Collector station – Smithburg No.1 500 kV line (new asset). New 500 kV line will be built double circuit to accommodate a 500 kV line and a 230 kV line | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.7           | Rebuild G1021 Atlantic – Smithburg 230 kV line between the Larrabee and Smithburg substations as a double circuit 500 kV/230 kV line                             | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |

| <b>Identifier</b> | <b>Description</b>  | <b>Responsible Customers<br/>(percentage share)</b>       |
|-------------------|---|---|
| b3737.8           | Smithburg substation 500 kV expansion to 4-breaker ring   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.9           | Larrabee substation upgrades  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.10          | Atlantic 230 kV substation – Convert to double-breaker double-bus   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.11          | Freneau substation – Update relay settings on the Atlantic 230 kV line  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.12          | Smithburg substation – Update relay settings on the Atlantic 230 kV line  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.13          | Oceanview substation – Update relay settings on the Atlantic 230 kV lines   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.14          | Red Bank substation – Update relay settings on the Atlantic 230 kV lines  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.15          | South River substation – Update relay settings on the Atlantic 230 kV line  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.16          | Larrabee substation – Update relay settings on the Atlantic 230 kV line   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.17          | Atlantic substation – Construct a new 230 kV line terminal position to accept the generator lead line from the offshore wind Larrabee Collector station | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.18          | G1021 (Atlantic – Smithburg) 230 kV upgrade   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.19          | R1032 (Atlantic – Larrabee) 230 kV upgrade  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.20          | New Larrabee Collector station – Atlantic 230 kV line   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |

| <b>Identifier</b> | <b>Description</b>  | <b>Responsible Customers<br/>(percentage share)</b>       |
|-------------------|---|---|
| b3737.21          | Larrabee – Oceanview 230 kV line upgrade  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.22          | Construct the Larrabee Collector station AC switchyard, composed of a 230 kV 3 bay breaker and a half substation with a nominal current rating of 4000 A and four single phase 500/230 kV 450 MVA autotransformers to step up the voltage for connection to the Smithburg substation. Procure land adjacent to the AC switchyard, and prepare the site for construction of future AC to DC converters for future interconnection of DC circuits from offshore wind generation. Land should be suitable to accommodate installation of four individual converters to accommodate circuits with equivalent rating of 1400 MVA at 400 kV | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.23          | Rebuild the underground portion of Richmond – Waneeta 230 kV line   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.24          | Upgrade Cardiff – Lewis 138 kV by replacing 1590 kcmil strand bus inside Lewis substation   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.25          | Upgrade Lewis No. 2 – Lewis No. 1 138 kV by replacing its bus tie with 2000 A circuit breaker   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.26          | Upgrade Cardiff – New Freedom 230 kV by modifying existing relay setting to increase relay limit  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.27          | Rebuild approximately 0.8 miles of the D1018 (Clarksville –Lawrence 230 kV) line between Lawrence substation (PSEG) and structure No. 63  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.28          | Reconductor Kilmer I – Lake Nelson I 230 kV   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.29          | Convert the six-wired East Windsor – Smithburg E2005 230 kV line (9.0 miles) to two circuits: One a 500 kV line and the other a 230 kV line   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |

| <b>Identifier</b> | <b>Description</b>   | <b>Responsible Customers<br/>(percentage share)</b>       |
|-------------------|--|---|
| b3737.30          | Add third Smithburg 500/230 kV transformer   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.31          | Additional reconductoring required for Lake Nelson I –Middlesex 230 kV line  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.32          | Rebuild Larrabee – Smithburg No. 1 230 kV line   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.33          | Reconductor Red Oak A – Raritan River 230 kV line  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.34          | Reconductor Red Oak B – Raritan River 230 kV line  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.35          | Reconductor small section of Raritan River – Kilmer I 230 kV line  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.36          | Replace substation conductor at Kilmer and reconductor Raritan River – Kilmer W 230 kV line  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.37          | Add a third set of submarine cables, rerate the overhead segment, and upgrade terminal equipment to achieve a higher rating for the Silver Run – Hope Creek 230 kV line  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.38          | Linden subproject: Install a new 345/230 kV transformer at the Linden 345 kV switching station, and relocate the Linden – Tosco 230 kV (B-2254) line from the Linden 230 kV to the existing 345/230 kV transformer at Linden 345 kV station          | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.39          | Bergen subproject: Upgrade the Bergen 138 kV ring bus by installing a 80 kA breaker along with the foundation, piles, and relays to the existing ring bus, install breaker isolation switches on existing foundations and modify and extend bus work | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |

| <b>Identifier</b> | <b>Description</b>   | <b>Responsible Customers (percentage share)</b>           |
|-------------------|--|---|
| b3737.40          | Windsor to Clarksville subproject:<br>Create a paired conductor path between Clarksville 230 kV and JCPL Windsor Switch 230 kV   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.41          | Windsor to Clarksville subproject:<br>Upgrade all terminal equipment at Windsor 230 kV and Clarksville 230 kV as necessary to create a paired conductor path between Clarksville and JCPL East Windsor Switch 230 kV | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.42          | Upgrade inside plant equipment at Lake Nelson I 230 kV station   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.43          | Upgrade Kilmer W – Lake Nelson W 230 kV line drop and strain bus connections at Lake Nelson 230 kV   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.44          | Upgrade Lake Nelson – Middlesex – Greenbrook W 230 kV line drop and strain bus connections at Lake Nelson 230 kV   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.45          | Reconductor 0.33 miles of PPL’s portion of the Gilbert –Springfield 230 kV line  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.46          | Install a new breaker at Graceton 230 kV substation to terminate a new 230 kV line from the new greenfield North Delta station   | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |

| <b>Identifier</b>     | <b>Description</b>   | <b>Responsible Customers (percentage share)</b>   |
|-----------------------|--|---|
| b3737.47 <sup>±</sup> | <u>Build a new greenfield North Delta station with two 500/230 kV 1500 MVA transformers and nine 63 kA breakers (four high side and five low side breakers in ring bus configuration) Build a new North Delta 500 kV substation with four bay breaker and half configuration. The substation will include 12 500 kV breakers and one 500/230 kV transformers, will allow the termination of six 500 kV lines</u> | <p><b><u>Reliability Driver (26.73%):</u></b></p> <p><b><u>Load-Ratio Share Allocation:</u></b><br/> <u>AEC (1.65%) / AEP (13.68%) / APS (5.76%) / ATSI (8.04%) / BGE (4.11%) / ComEd (13.39%) / Dayton (2.12%) / DEOK (3.25%) / DL (1.71%) / Dominion (13.32%) / DPL (2.60%) / EKPC (1.89%) / JCPL (3.86%) / ME (1.90%) / NEPTUNE* (0.42%) / OVEC (0.08%) / PECO (5.40%) / PENELEC (1.78%) / PEPCO (3.67%) / PPL (4.72%) / PSEG (6.39%) / RE (0.26%)</u></p> <p><b><u>DFAX Allocation:</u></b><br/> <u>PECO (100%)</u></p> <p><b><u>Public Policy Driver (73.27%):</u></b><br/> <u>AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%)</u></p> |
| b3737.48              | Build a new North Delta – Graceton 230 kV line by rebuilding 6.07 miles of the existing Cooper – Graceton 230 kV line to double circuit  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%)   |
| b3737.49              | Bring the Cooper – Graceton 230 kV line “in and out” of North Delta by constructing a new double-circuit North Delta – Graceton 230 kV (0.3 miles) and a new North Delta – Cooper 230 kV (0.4 miles) cut-in lines  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%)   |

<sup>±</sup> b3737.47 is an Incremental Multi-Driver Project that includes both a reliability driver and a public policy driver. Accordingly, b3737.47 is included on both Tariff, Schedule 12–Appendix A, section 28 and Tariff, Schedule 12–Appendix C, section 1.

| <b>Identifier</b> | <b>Description</b>   | <b>Responsible Customers<br/>(percentage share)</b>       |
|-------------------|--|---|
| b3737.50          | Bring the Peach Bottom – Delta Power Plant 500 kV line “in and out” of North Delta by constructing a new Peach Bottom – North Delta 500 kV (0.3 miles) cut-in and cut-out lines  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.51          | Replace four 63 kA circuit breakers "205," "235," "225" and "255" at Peach Bottom 500 kV with 80 kA  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.52          | Replace one 63 kA circuit breaker "B4" at Conastone 230 kV with 80 kA  | AEC (13.64%) / JCPL (31.98%) / PSEG (52.17%) / RE (2.21%) |
| b3737.53          | Remove the existing E83 115 kV line (not in-service) to accommodate the new 500 kV/230 kV lines (approximately 7.7 miles)  | AEC (13.55%) / JCPL (31.74%) / PSEG (52.60%) / RE (2.11%) |
| b3737.54          | Remove the existing H2008 Larrabee – Smithburg No. 2 230 kV line to accommodate the new 500 kV/230 kV lines  | AEC (13.55%) / JCPL (31.74%) / PSEG (52.60%) / RE (2.11%) |
| b3737.55          | Middlesex substation 230 kV – Replace the 2000A circuit switcher at Middlesex switch point for the Lake Nelson I1023 230 kV exit   | AEC (13.55%) / JCPL (31.74%) / PSEG (52.60%) / RE (2.11%) |
| b3737.56          | Build a new North Delta – Graceton 230 kV line by rebuilding 6.26 miles of the existing Cooper – Graceton 230 kV line to double circuit. Cooper-Graceton is jointly owned by PECO and BGE. This subproject is for BGE's portion of the line rebuild, which is 2.16 miles | AEC (13.55%) / JCPL (31.74%) / PSEG (52.60%) / RE (2.11%) |
| b3737.59          | Windsor to Clarksville subproject: Upgrade terminal equipment at Windsor 230 kV station  | AEC (13.55%) / JCPL (31.74%) / PSEG (52.60%) / RE (2.11%) |
| b3737.60          | Perform a Pre-build Infrastructure evaluation study in alignment with the NJBPU Solicitation Guidance Document requirements  | AEC (13.55%) / JCPL (31.74%) / PSEG (52.60%) / RE (2.11%) |

# Attachment C – Summary Chart

## Tariff, Schedule 12 – Appendix, Section 14 - MonPower

| <b>Docket No.</b>                      | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>                                   |
|--|--------------------|-------------------|-----------------------|----------------|--|
| ER24-284-000                           | 11/1/23            | 12/18/24          | 1/1/24                | 29.0.0         | Missing revisions from version 30.0.0  |
| ER24-786-000                           | 12/29/23           | 2/27/24           | 1/1/24                | 30.0.0         | Missing revisions from version 29.0.0; this is the 2024 Annual Update Filing |
| <b>ER24-____-000<br/>[New Version]</b> | <b>4/29/24</b>     |                   | <b>1/1/24</b>         | <b>30.0.1</b>  | <b>Combine revisions from versions 29.0.0 and 30.0.0</b>                     |

## Tariff, Schedule 12 – Appendix, Section 25 - KATCO

| <b>Docket No.</b>                      | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>  |
|--|--------------------|-------------------|-----------------------|----------------|---|
| ER24-284-000                           | 11/1/23            | 12/18/24          | 1/1/24                | 0.0.0          | Missing revisions from Schedule 12-Appendix, Section 14, version 29.0.0 (effective 1/1/24)        |
| <b>ER24-____-000<br/>[New Version]</b> | <b>4/29/24</b>     |                   | <b>1/1/24</b>         | <b>0.0.1</b>   | <b>Combine revisions from versions 0.0.0 and Schedule 12-Appendix, Section 14, version 29.0.0</b> |

## Tariff, Schedule 12 – Appendix A, Section 2 - BG&E

| <b>Docket No.</b>                      | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>                     |
|--|--------------------|-------------------|-----------------------|----------------|--|
| ER24-786-000                           | 12/29/23           | 2/27/24           | 1/1/24                | 23.0.0         | No changes at this time; this is the 2024 Annual Update Filing |
| ER24-843-000                           | 1/10/24            | 4/8/24            | 4/9/24                | 24.0.0         | Missing revisions from version 19.0.0                          |
| <b>ER24-____-000<br/>[New Version]</b> | <b>4/29/24</b>     |                   | <b>4/9/24</b>         | <b>24.0.1</b>  | <b>Combine revisions from versions 23.0.0 and 24.0.0</b>       |

## Attachment C – Summary Chart

### Tariff, Schedule 12 – Appendix A, Section 3 - DPL

| <b>Docket No.</b>                            | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>                     |
|--|--------------------|-------------------|-----------------------|----------------|--|
| ER24-786-000                                 | 12/29/23           | 2/27/24           | 1/1/24                | 24.0.0         | No changes at this time; this is the 2024 Annual Update Filing |
| ER24-843-000                                 | 1/10/24            | 4/8/24            | 4/9/24                | 25.0.0         | Missing revisions from version 24.0.0                          |
| <b>ER24-____-000</b><br><b>[New Version]</b> | <b>4/29/24</b>     |                   | <b>4/9/24</b>         | <b>25.0.1</b>  | <b>Combine revisions from versions 24.0.0 and 25.0.0</b>       |

### Tariff, Schedule 12 – Appendix A, Section 5 – Met-Ed

| <b>Docket No.</b>                            | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>                     |
|--|--------------------|-------------------|-----------------------|----------------|--|
| ER24-786-000                                 | 12/29/23           | 2/27/24           | 1/1/24                | 27.0.0         | No changes at this time; this is the 2024 Annual Update Filing |
| ER24-843-000                                 | 1/10/24            | 4/8/24            | 4/9/24                | 28.0.0         | Missing revisions from version 27.0.0                          |
| <b>ER24-____-000</b><br><b>[New Version]</b> | <b>4/29/24</b>     |                   | <b>4/9/24</b>         | <b>28.0.1</b>  | <b>Combine revisions from versions 27.0.0 and 28.0.0</b>       |

### Tariff, Schedule 12 – Appendix A, Section 7 - Penelec

| <b>Docket No.</b>                            | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>                     |
|--|--------------------|-------------------|-----------------------|----------------|--|
| ER24-786-000                                 | 12/29/23           | 2/27/24           | 1/1/24                | 32.0.0         | No changes at this time; this is the 2024 Annual Update Filing |
| ER24-321-000                                 | 11/2/23            | 4/4/23            | 1/31/24               | 31.0.0         | Missing revisions from version 32.0.0                          |
| <b>ER24-____-000</b><br><b>[New Version]</b> | <b>4/29/24</b>     |                   | <b>1/31/24</b>        | <b>31.0.1</b>  | <b>Combine revisions from versions 31.0.0 and 32.0.0</b>       |

## Attachment C – Summary Chart

### Tariff, Schedule 12 – Appendix A, Section 8 - PECO

| <b>Docket No.</b>                            | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>                     |
|--|--------------------|-------------------|-----------------------|----------------|--|
| ER24-786-000                                 | 12/29/23           | 2/27/24           | 1/1/24                | 25.0.0         | No changes at this time; this is the 2024 Annual Update Filing |
| ER24-843-000                                 | 1/10/24            | 4/8/24            | 4/9/24                | 26.0.0         | Missing revisions from version 25.0.0                          |
| <b>ER24-____-000</b><br><b>[New Version]</b> | <b>4/29/24</b>     |                   | <b>4/9/24</b>         | <b>26.0.1</b>  | <b>Combine revisions from versions 25.0.0 and 26.0.0</b>       |

### Tariff, Schedule 12 – Appendix A, Section 9 - PPL

| <b>Docket No.</b>                            | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>                     |
|--|--------------------|-------------------|-----------------------|----------------|--|
| ER24-786-000                                 | 12/29/23           | 2/27/24           | 1/1/24                | 27.0.0         | No changes at this time; this is the 2024 Annual Update Filing |
| ER24-843-000                                 | 1/10/24            | 4/8/24            | 4/9/24                | 28.0.0         | Missing revisions from version 27.0.0                          |
| <b>ER24-____-000</b><br><b>[New Version]</b> | <b>4/29/24</b>     |                   | <b>4/9/24</b>         | <b>28.0.1</b>  | <b>Combine revisions from versions 27.0.0 and 28.0.0</b>       |

### Tariff, Schedule 12 – Appendix A, Section 12 – PSE&G

| <b>Docket No.</b>                            | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>                     |
|--|--------------------|-------------------|-----------------------|----------------|--|
| ER24-786-000                                 | 12/29/23           | 2/27/24           | 1/1/24                | 31.0.0         | No changes at this time; this is the 2024 Annual Update Filing |
| ER24-843-000                                 | 1/10/24            | 4/8/24            | 4/9/24                | 32.0.0         | Missing revisions from version 31.0.0                          |
| <b>ER24-____-000</b><br><b>[New Version]</b> | <b>4/29/24</b>     |                   | <b>4/9/24</b>         | <b>32.0.1</b>  | <b>Combine revisions from versions 31.0.0 and 32.0.0</b>       |

## Attachment C – Summary Chart

### Tariff, Schedule 12 – Appendix A, Section 14 – MonPower

| <b>Docket No.</b>                      | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>                                   |
|--|--------------------|-------------------|-----------------------|----------------|--|
| ER24-284-000                           | 11/1/23            | 12/18/24          | 1/1/24                | 29.0.0         | Missing revisions from version 31.0.0  |
| ER24-786-000                           | 12/29/23           | 2/27/24           | 1/1/24                | 31.0.0         | Missing revisions from version 29.0.0; this is the 2024 Annual Update Filing |
| <b>ER24-____-000<br/>[New Version]</b> | <b>4/29/24</b>     |                   | <b>1/1/24</b>         | <b>31.0.1</b>  | <b>Combine revisions from versions 29.0.0 and 31.0.0</b>                     |
| ER24-321-000                           | 11/2/23            | 4/4/23            | 1/31/24               | 30.0.0         | Missing revisions from version 29.0.0 and 31.0.0                             |
| <b>ER24-____-000<br/>[New Version]</b> | <b>4/29/24</b>     |                   | <b>1/31/24</b>        | <b>30.0.1</b>  | <b>Combine revisions from versions 29.0.0, 30.0.0 and 31.0.0</b>             |
| ER24-843-000                           | 1/10/24            | 4/8/24            | 4/9/24                | 32.0.0         | Missing revisions from versions 29.0.0, 30.0.0 and 31.0.0                    |
| <b>ER24-____-000<br/>[New Version]</b> | <b>4/29/24</b>     |                   | <b>4/9/24</b>         | <b>32.0.1</b>  | <b>Combine revisions from versions 29.0.0, 30.0.0, 31.0.0 and 32.0.0</b>     |

### Tariff, Schedule 12 – Appendix A, Section 17 – AEP

| <b>Docket No.</b>                      | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>                     |
|--|--------------------|-------------------|-----------------------|----------------|--|
| ER24-786-000                           | 12/29/23           | 2/27/24           | 1/1/24                | 43.0.0         | No changes at this time; this is the 2024 Annual Update Filing |
| ER24-843-000                           | 1/10/24            | 4/8/24            | 4/9/24                | 44.0.0         | Missing revisions from version 43.0.0                          |
| <b>ER24-____-000<br/>[New Version]</b> | <b>4/29/24</b>     |                   | <b>4/9/24</b>         | <b>44.0.1</b>  | <b>Combine revisions from versions 43.0.0 and 44.0.0</b>       |

## Attachment C – Summary Chart

### Tariff, Schedule 12 – Appendix A, Section 20 - VEPCO

| <b>Docket No.</b>                            | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>                     |
|--|--------------------|-------------------|-----------------------|----------------|--|
| ER24-786-000                                 | 12/29/23           | 2/27/24           | 1/1/24                | 39.0.0         | No changes at this time; this is the 2024 Annual Update Filing |
| ER24-843-000                                 | 1/10/24            | 4/8/24            | 4/9/24                | 40.0.0         | Missing revisions from version 39.0.0                          |
| <b>ER24-____-000</b><br><b>[New Version]</b> | <b>4/29/24</b>     |                   | <b>4/9/24</b>         | <b>40.0.1</b>  | <b>Combine revisions from versions 39.0.0 and 40.0.0</b>       |

### Tariff, Schedule 12 – Appendix A, Section 33 - KATCO

| <b>Docket No.</b>                            | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>  |
|--|--------------------|-------------------|-----------------------|----------------|---|
| ER24-284-000                                 | 11/1/23            | 12/18/24          | 1/1/24                | 0.0.0          | Missing revisions from Schedule 12-Appendix A, Section 14, version 31.0.0 (effective 1/1/24)      |
| <b>ER24-____-000</b><br><b>[New Version]</b> | <b>4/29/24</b>     |                   | <b>1/1/24</b>         | <b>0.0.1</b>   | <b>Combine revisions from versions 0.0.0 and Schedule 12-Appendix, Section 14, version 29.0.0</b> |

### Tariff, Schedule 12 – Appendix C

| <b>Docket No.</b>                            | <b>Filing Date</b> | <b>Order Date</b> | <b>Effective Date</b> | <b>Version</b> | <b>Description of the Clean Up Changes</b>                     |
|--|--------------------|-------------------|-----------------------|----------------|--|
| ER24-786-000                                 | 12/29/23           | 2/27/24           | 1/1/24                | 3.0.0          | No changes at this time; this is the 2024 Annual Update Filing |
| ER24-843-000                                 | 1/10/24            | 4/8/24            | 4/9/24                | 4.0.0          | Missing revisions from version 3.0.0                           |
| <b>ER24-____-000</b><br><b>[New Version]</b> | <b>4/29/24</b>     |                   | <b>4/9/24</b>         | <b>4.0.1</b>   | <b>Combine revisions from versions 3.0.0 and 4.0.0</b>         |