



VIA ELECTRONIC MAIL & OVERNIGHT MAIL

May 12, 2017

In the Matter of the Provision of
Basic Generation Service for Year Two of the Post-Transition Period
-and-
In the Matter of the Provision of
Basic Generation Service for the Period Beginning June 1, 2014
-and-
In the Matter of the Provision of
Basic Generation Service for the Period Beginning June 1, 2015
-and-
In the Matter of the Provision of
Basic Generation Service for the Period Beginning June 1, 2016
and-
In the Matter of the Provision of
Basic Generation Service for the Period Beginning June 1, 2017

Docket Nos. EO03050394, ER13050378, ER14040370, ER15040485, ER16040337
++++
Compliance Tariff Filing Reflecting Changes to Schedule 12 Charges in PJM Open Access
Transmission Tariff Docket No.

Irene Kim Asbury, Secretary
New Jersey Board of Public Utilities
44 So. Clinton Ave., 3rd Floor, Suite 314
Trenton, New Jersey 08625-0350

Dear Secretary Asbury:

Enclosed for filing on behalf of Jersey Central Power & Light Company (“JCP&L”), Atlantic City Electric Company (“ACE”), Public Service Electric and Gas Company (“PSE&G”) and Rockland Electric Company (“RECO”) (collectively, the “EDCs”), please find an original and ten copies of revised tariff sheets and supporting exhibits to update the initial filings made by the EDCs on December 19, 2016 and June 17, 2016 in the above-captioned dockets (the “16 Filings”).

A. Purpose of Revised Tariff Sheet Filing

The attached updated tariff sheets and supporting exhibits listed below incorporate changes to the PJM Open Access Transmission Tariff (“OATT”) pursuant to a Federal Energy Regulatory Commission (“FERC”) Order issued on April 25, 2017, in Docket Nos. ER17-950-000 and ER17-940-001 (“ConEd Wheel Order”). The ConEd Wheel Order provides for an effective date of May 1, 2017. The changes to the PJM OATT approved by the ConEd Wheel Order were made as a result of the termination of a long-term firm point-to-point transmission service agreement between PJM and Consolidated Edison Company of New York, Inc. (the “ConEd Wheel”).

The PJM tariff revisions remove ConEd as one of the parties responsible for cost allocation under Schedule 12 of the PJM. The tariff revisions reallocate the ConEd Wheel transmission costs previously assigned to ConEd to other entities in PJM. As a result, the Transmission Enhancement Charges in Schedule 12 have been adjusted to reflect the revised cost allocation.

The cost reallocation being implemented pursuant to the ConEd Wheel Order is subject to ongoing legal challenges and protests before FERC by various interested entities. With the exception of a protest filed by the Board of Public Utilities (the “Board” or “BPU”), the entities challenging (i.e., Linden VFT, Hudson Transmission Partners, and New York Power Authority, hereafter the “Merchant-related Protestors”) the cost reallocation allege that less costs should be allocated to them and more costs should be allocated to the zones of New Jersey EDCs.

In addition to implementing Schedule 12 changes caused by the termination of the ConEd Wheel agreement, the attached updated tariff sheets and supporting exhibits listed below reflect American Electric Power Service Corporation’s (“AEP”) Formula Rate transition from “historic” to “forward looking” as approved by a FERC Order issued on March 10, 2017, effective January 1, 2017 (“AEP FERC Order”).

B. Updated Tariff Sheets

The following tariff sheets and supporting documentation are attached to this filing.

- Attachment 1 (Derivation of PSE&G NITS Charge)
- Attachment 2a (Pro-forma PSE&G Tariff Sheets)
- Attachment 2b (PSE&G Translation of NITS Charge into Customer Rates)
- Attachment 2c (PSE&G Translation of VEPCo TEC into Customer Rates)
- Attachment 2d (PSE&G Translation of PATH TEC into Customer Rates)
- Attachment 2e (PSE&G Translation of TrailCo TEC into Customer Rates)
- Attachment 2f (PSE&G Translation of Delmarva TEC into Customer Rates)
- Attachment 2g (PSE&G Translation of ACE TEC into Customer Rates)
- Attachment 2h (PSE&G Translation of PEPCO TEC into Customer Rates)

- Attachment 2i (PSE&G Translation of PPL TEC into Customer Rates)
- Attachment 2j (PSE&G Translation of AEP East TEC into Customer Rates)
- Attachment 3a (Pro-forma JCPL Tariff Sheets)
- Attachment 3b (JCPL –Translation of PSE&G TEC into Customer Rates)
- Attachment 3c (JCP&L Translation of VEPCo TEC into Customer Rates)
- Attachment 3d (JCP&L Translation of PATH TEC into Customer Rates)
- Attachment 3e (JCP&L Translation of TrailCo TEC into Customer Rates)
- Attachment 3f (JCP&L Translation of Delmarva TEC into Customer Rates)
- Attachment 3g (JCP&L Translation of ACE TEC into Customer Rates)
- Attachment 3h (JCP&L Translation of PEPCO TEC into Customer Rates)
- Attachment 3i (JCP&L Translation of PPL TEC into Customer Rates)
- Attachment 3j (JCP&L Translation of AEP East TEC into Customer Rates)
- Attachment 4a (ACE Pro-forma Tariff Sheets)
- Attachment 4b (ACE – Translation of PSE&G TEC into Customer Rates)
- Attachment 4c (ACE Translation of VEPCo TEC into Customer Rates)
- Attachment 4d (ACE Translation of PATH TEC into Customer Rates)
- Attachment 4e (ACE Translation of TrailCo TEC into Customer Rates)
- Attachment 4f (ACE Translation of Delmarva TEC into Customer Rates)
- Attachment 4g (N/A)
- Attachment 4h (ACE Translation of PEPCO TEC into Customer Rates)
- Attachment 4i (ACE Translation of PPL TEC into Customer Rates)
- Attachment 4j (ACE Translation of AEP East TEC into Customer Rates)
- Attachment 5a (RECO Pro-forma Tariff Sheets)
- Attachment 5b (RECO –Translation of PSE&G TEC into Customer Rates)
- Attachment 5c (RECO Translation of VEPCo TEC into Customer Rates)
- Attachment 5d (RECO Translation of PATH TEC into Customer Rates)
- Attachment 5e (RECO Translation of TrailCo TEC into Customer Rates)
- Attachment 5f (RECO Translation of Delmarva TEC into Customer Rates)
- Attachment 5g (RECO Translation of ACE TEC into Customer Rates)
- Attachment 5h (RECO Translation of PEPCO TEC into Customer Rates)
- Attachment 5i (RECO Translation of PPL TEC into Customer Rates)
- Attachment 5j (RECO Translation of AEP East TEC into Customer Rates)
- Attachment 6a (PSE&G Transmission Enhancement Charges)
- Attachment 6b (VEPCo Transmission Enhancement Charges)
- Attachment 6c (PATH Transmission Enhancement Charges)
- Attachment 6d (TrailCo Transmission Enhancement Charges)
- Attachment 6e (Delmarva Transmission Enhancement Charges)
- Attachment 6f (ACE Transmission Enhancement Charges)
- Attachment 6g (PEPCO Transmission Enhancement Charges)
- Attachment 6h (PPL Transmission Enhancement Charges)
- Attachment 6i (AEP East Transmission Enhancement Charges)

- Attachment 7a (PSE&G OATT)
- Attachment 7b (VEPCo OATT)
- Attachment 7c (PATH OATT)
- Attachment 7d (TrailCo OATT)
- Attachment 7e (Delmarva OATT)
- Attachment 7f (ACE OATT)
- Attachment 7g (PEPCO OATT)
- Attachment 7h (PPL OATT)
- Attachment 7i (AEP OATT)
- Attachment 8 Con Edison FERC Order
- Attachment 9 AEP East FERC Order
- Attachment 10 (PSE&G FERC Formula Rate filing)
- Attachment 11 (AEP East FERC Formula Rate filing)

C. Request for Authority to Collect Adjusted Rate and to Pay Suppliers

The EDCs respectfully reiterate the requests for approval set forth in the 2016 Filings as if incorporated herein. More specifically, the EDCs request approval to implement the attached tariff sheets effective July 14, 2017.

Also, the EDCs respectfully request that the Board issue a waiver of the 30-day filing requirement that would otherwise apply to this submission, because Basic Generation Service (“BGS”) suppliers began paying these revised transmission charges for transmission service effective May 1, 2017 pursuant to the April 25, 2017, ConEd Wheel Order and the March 10, 2017, AEP FERC Order.

In addition, the EDCs seek authority from the Board to remit payment to suppliers for the increased charges they incur due to the elimination of the ConEd Wheel. The ConEd Wheel Order (which was issued pursuant to FERC Staff’s delegated authority) provides that:

PJM’s proposed Tariff revisions are accepted for filing, suspended for a nominal period, to become effective May 1, 2017, as requested, subject to refund and further Commission order. Protests and comments will be addressed in a further Commission order as appropriate. FERC Order at P. 3.

Under the Supplier Master Agreement (“SMA”), EDCs are permitted to recover increases in Firm Transmission Service charges from BGS customers subject to Board approval. SMA, Section 15.9. Thereafter, EDCs are required to remit payment of the increased charges to suppliers upon, among other things, the issuance of a “FERC Final Order” approving the Firm Transmission Service increase.

While the ConEd Wheel rate adjustment in the attached tariffs is intended to implement an adjustment to Transmission Enhancement Charges (“TECs”) rather than the Firm Transmission Rate, the EDCs recognize that the ConEd Wheel FERC Order may not satisfy the definition of “FERC Final Order” which provides that an order that “is no longer subject to rehearing or judicial review in which the amount of the increase or decrease is in dispute or question.” See SMA, definition of “Final FERC Order.

The EDCs specifically request that the Board find that the “Final FERC Order” definition does not apply to the TEC charge reallocation determination in the ConEd Wheel FERC Order because the imposition of the TEC charge adjustment is not a change in the Firm Transmission Rate. Rather, the TEC rate adjustment reflected in this filing is a PJM initiated cost reallocation. As a result, the EDCs respectfully submit that the EDCs should be permitted to pay to suppliers pursuant to the ConEd Wheel Order. Any difference between the payments to the BGS suppliers and charges to customers would flow through each EDC’s BGS Reconciliation Charge.

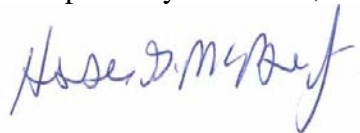
Furthermore, an initial FERC decision in the ConEd Wheel proceeding will be significantly delayed until FERC has a quorum of commissioners. Prompt payment to suppliers of PJM initiated cost reallocations is important to the continued success of the BGS auction process which benefits customers. BGS suppliers have a reasonable expectation that they will be paid for increased charges imposed by PJM. Payment of the suppliers for the ConEd Wheel Order related charges, even though the order is subject to protest, will help ensure that BGS suppliers, when establishing their bid prices, can rely upon the provision of the SMA that permit BGS suppliers to be made whole for increased PJM charges

D. Conclusion

For the foregoing reasons, the EDCs respectfully request that the Board accept the tariff revision proposed herein and the Board authorize the EDCs to remit payment to suppliers for the increased charges they incur due to the elimination of the ConEd Wheel.

We thank the Board for all courtesies extended.

Respectfully submitted,



Attachments

- C Thomas Walker, NJBPU
- Stacy Peterson, NJBPU
- Stefanie Brand, Division of Rate Counsel
- Attached Service List (email only)

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
BGS TRANSMISSION ENHANCEMENT CHARGE

BOARD OF PUBLIC UTILITIES		
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PUBLIC SERVICE ELECTRIC AND GAS COMPANY
BGS TRANSMISSION ENHANCEMENT CHARGE

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BGS TRANSMISSION ENHANCEMENT CHARGE

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Attachment 1 (Derivation of PSE&G NITS Charge)

Attachment 1 - PSE&G Network Integration Service Calculation.

Derived Network Integration Service Rate Applicable to PSE&G customers - Effective May 1, 2017 through December 31, 2017

Line #	Description	Rate	Source
			Page 4 of Attachment 10
(1)	Transmission Service Annual Revenue Requirement	\$ 1,185,164,918.44	-Line 164
(2)	Total Schedule 12 TEC Included in above	\$ (483,133,849.40)	Attachment 6a Column (a)
(3)	PSE&G Customer Share of Schedule 12 TEC	\$ 205,173,435.66	Attachment 6a Column (h)
(4)	Total Transmission Costs Borne by PSE&G customers	\$ 907,204,504.70	=(1) +(2) +(3)
			Page 4 of Attachment 10 -
(5)	2017 PSE&G Network Service Peak	9,800.3 MW	-Line 165
(6)	2017 Derived Network Integration Transmission Service Rate	\$ 92,569.05 per MW-year	
	Resulting 2017 BGS Firm Transmission Service Supplier Rate	\$ 253.61 per MW-day	= (6)/365

Attachment 2a (Pro-forma PSE&G Tariff Sheets)
Attachment 2b (PSE&G Translation of NITS Charge into Customer Rates)
Attachment 2c (PSE&G Translation of VEPCo TEC into Customer Rates)
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Attachment 2j (PSE&G Translation of AEP East TEC into Customer Rates)

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

XXX Revised Sheet No. 75

B.P.U.N.J. No. 15 ELECTRIC

Superseding

XXX Revised Sheet No. 75

**BASIC GENERATION SERVICE – RESIDENTIAL SMALL COMMERCIAL PRICING (BGS-RSCP)
ELECTRIC SUPPLY CHARGES**

APPLICABLE TO:

Default electric supply service for Rate Schedules RS, RHS, RLM, WH, WHS, HS, BPL, BPL-POF, PSAL, GLP and LPL-Secondary (less than 500 kilowatts).

BGS ENERGY CHARGES:

Applicable to Rate Schedules RS, RHS, RLM, WH, WHS, HS, BPL, BPL-POF and PSAL

Charges per kilowatthour:

Rate Schedule	For usage in each of the months of <u>October through May</u>		For usage in each of the months of <u>June through September</u>	
	Charges		Charges	
	<u>Charges</u>	<u>Including SUT</u>	<u>Charges</u>	<u>Including SUT</u>
RS – first 600 kWh	\$0.114777	\$0.122668	\$0.114831	\$0.122726
RS – in excess of 600 kWh	0.114777	0.122668	0.123949	0.132470
RHS – first 600 kWh	0.092781	0.099160	0.087885	0.093927
RHS – in excess of 600 kWh	0.092781	0.099160	0.100077	0.106957
RLM On-Peak	0.195818	0.209280	0.207256	0.221505
RLM Off-Peak	0.054802	0.058570	0.051038	0.054547
WH	0.054424	0.058166	0.051835	0.055399
WHS	0.054891	0.058665	0.051426	0.054962
HS	0.092788	0.099167	0.093667	0.100107
BPL	0.051712	0.055267	0.046936	0.050163
BPL-POF	0.051712	0.055267	0.046936	0.050163
PSAL	0.051712	0.055267	0.046936	0.050163

The above Basic Generation Service Energy Charges reflect costs for Energy, Generation Capacity, Transmission, and Ancillary Services (including PJM Interconnection, L.L.C. (PJM) Administrative Charges). The portion of these charges related to Network Integration Transmission Service, including the PJM Seams Elimination Cost Assignment Charges, the PJM Reliability Must Run Charge and PJM Transmission Enhancement Charges may be changed from time to time on the effective date of such change to the PJM rate for these charges as approved by the Federal Energy Regulatory Commission (FERC).

Kilowatt threshold noted above is based upon the customer's Peak Load Share of the overall summer peak load assigned to Public Service by the Pennsylvania-New Jersey-Maryland Office of the Interconnection (PJM). See Section 9.1, Measurement of Electric Service, of the Standard Terms and Conditions of this Tariff.

Date of Issue:

Issued by SCOTT S. JENNINGS, Vice President Finance – PSE&G
80 Park Plaza, Newark, New Jersey 07102
Filed pursuant to Order of Board of Public Utilities dated
in Docket No.

Effective:

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

XXX Revised Sheet No. 79

Superseding

B.P.U.N.J. No. 15 ELECTRIC

XXX Revised Sheet No. 79

**BASIC GENERATION SERVICE – RESIDENTIAL SMALL COMMERCIAL PRICING (BGS-RSCP)
ELECTRIC SUPPLY CHARGES**

(Continued)

BGS CAPACITY CHARGES:

Applicable to Rate Schedules GLP and LPL-Sec.

Charges per kilowatt of Generation Obligation:

Charge applicable in the months of June through September	\$5.7899
Charge including New Jersey Sales and Use Tax (SUT)	\$6.1880
Charge applicable in the months of October through May	\$5.7899
Charge including New Jersey Sales and Use Tax (SUT)	\$6.1880

The above charges shall recover each customer's share of the overall summer peak load assigned to the Public Service Transmission Zone by the PJM Interconnection, L.L.C. (PJM) as adjusted by PJM assigned capacity related factors and shall be in accordance with Section 9.1, Measurement of Electric Service, of the Standard Terms and Conditions.

BGS TRANSMISSION CHARGES

Applicable to Rate Schedules GLP and LPL-Sec.

Charges per kilowatt of Transmission Obligation:

Currently effective Annual Transmission Rate for Network Integration Transmission Service for the Public Service Transmission Zone as derived from the FERC Electric Tariff of the PJM Interconnection, LLC	\$ 92,569.05 per MW per year
PJM Reallocation.....	\$ 988.08 per MW per year
PJM Seams Elimination Cost Assignment Charges	\$ 0.00 per MW per month
PJM Reliability Must Run Charge.....	\$ 0.00 per MW per month
PJM Transmission Enhancements	
Trans-Allegheny Interstate Line Company	\$107.99 per MW per month
Virginia Electric and Power Company	\$ 84.08 per MW per month
Potomac-Appalachian Transmission Highline L.L.C.	\$ 11.32 per MW per month
PPL Electric Utilities Corporation	\$ 55.05 per MW per month
American Electric Power Service Corporation.....	\$ 28.18 per MW per month
Atlantic City Electric Company	\$ 10.95 per MW per month
Delmarva Power and Light Company	\$ 0.34 per MW per month
Potomac Electric Power Company	\$ 3.33 per MW per month

Above rates converted to a charge per kW of Transmission Obligation, applicable in all months	\$ 8.0977
Charge including New Jersey Sales and Use Tax (SUT)	\$ 8.6544

The above charges shall recover each customer's share of the overall summer peak transmission load assigned to the Public Service Transmission Zone by the PJM Interconnection, L.L.C. (PJM) as adjusted by PJM assigned transmission capacity related factors and shall be in accordance with Section 9.1, Measurement of Electric Service, of the Standard Terms and Conditions. These charges will be changed from time to time on the effective date of such change to the PJM rate for charges for Network Integration Transmission Service, including the PJM Seams Elimination Cost Assignment Charges, the PJM Reliability Must Run Charge and PJM Transmission Enhancement Charges as approved by Federal Energy Regulatory Commission (FERC).

Date of Issue:

Issued by SCOTT S. JENNINGS, Vice President Finance – PSE&G
80 Park Plaza, Newark, New Jersey 07102
Filed pursuant to Order of Board of Public Utilities dated
in Docket No.

Effective:

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

XXX Revised Sheet No. 83

B.P.U.N.J. No. 15 ELECTRIC

**Superseding
XXX Revised Sheet No. 83**

**BASIC GENERATION SERVICE – COMMERCIAL AND INDUSTRIAL ENERGY PRICING (CIEP)
ELECTRIC SUPPLY CHARGES**

(Continued)

BGS TRANSMISSION CHARGES

Charges per kilowatt of Transmission Obligation:

Currently effective Annual Transmission Rate for Network Integration Transmission Service for the Public Service Transmission Zone as derived from the FERC Electric Tariff of the PJM Interconnection, LLC	\$ 92,569.05 per MW per year
PJM Reallocation.....	\$ 988.08 per MW per year
PJM Seams Elimination Cost Assignment Charges	\$ 0.00 per MW per month
PJM Reliability Must Run Charge.....	\$ 0.00 per MW per month
PJM Transmission Enhancements	
Trans-Allegheny Interstate Line Company	\$107.99 per MW per month
Virginia Electric and Power Company	\$ 84.08 per MW per month
Potomac-Appalachian Transmission Highline L.L.C.	\$ 11.32 per MW per month
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Delmarva Power and Light Company	\$ 0.34 per MW per month
Potomac Electric Power Company.....	\$ 3.33 per MW per month

Above rates converted to a charge per kW of Transmission Obligation, applicable in all months	\$ 8.0977
Charge including New Jersey Sales and Use Tax (SUT)	\$ 8.6544

The above charges shall recover each customer's share of the overall summer peak transmission load assigned to the Public Service Transmission Zone by the PJM Interconnection, L.L.C. (PJM) as adjusted by PJM assigned transmission capacity related factors and shall be in accordance with Section 9.1, Measurement of Electric Service, of the Standard Terms and Conditions. These charges will be changed from time to time on the effective date of such charge to the PJM rate for charges for Network Integration Transmission Service, including the PJM Seams Elimination Cost Assignment Charges, the PJM Reliability Must Run Charge and PJM Transmission Enhancement Charges as approved by Federal Energy Regulatory Commission (FERC).

Kilowatt threshold noted above is based upon the customer's Peak Load Share of the overall summer peak load assigned to Public Service by the Pennsylvania-New Jersey-Maryland Office of the Interconnection (PJM). See Section 9.1, Measurement of Electric Service, of the Standard Terms and Conditions of this Tariff.

Date of Issue:

Issued by SCOTT S. JENNINGS, Vice President Finance – PSE&G
80 Park Plaza, Newark, New Jersey 07102
Filed pursuant to Order of Board of Public Utilities dated
in Docket No.

Effective:

Network Integration Service Calculation - BGS-RSCP
NITS Charges for January 2017 - December 2017

		<u>Effective 1/1/17 - 12/31/17</u>		
PSE&G Annual Transmission Service Revenue Required	\$	1,185,164,918.00		
Total Schedule 12 TEC Included in above	\$	(483,133,850.00)		
PSE&G Customer Share of Schedule 12 NITS	\$	<u>191,993,305.00</u>		
NITS Charges for Jan 2017 - Dec 2017	\$	894,024,373.00		
PSE&G Zonal Transmission Load for Effective Yr. (MW) (1/1/17)		9,800.30		
Term (Months)		12		
OATT rate	\$	7,602.02 /MW/month		all values show w/o NJ SUT
converted to \$/MW/yr =	\$	91,224.18 /MW/yr		
	\$	70,337.03 /MW/yr		Jan 17 - Dec 17 NITS Charge
	\$	<u>82,031.74 /MW/yr</u>		Jan 17 - May 17 Weighted Average of: \$ 55,722.38 \$ 72,688.29 \$ 82,516.44
	\$			Jun 17 - Dec 17 Weighted Average of: \$ 72,688.29 \$ 82,516.44 \$ 91,224.18
	\$	77,158.94 /MW/yr		Jan 17 - Dec 17 Weighted Average
Resulting Increase in Transmission Rate	\$	14,065.24 /MW/yr		
Resulting Increase in Transmission Rate	\$	1,172.10 /MW/month		

	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL	Totals
Trans Obl - MW	3,756.9	25.7	72.3	0.0	0.0	3.0	0.0	0.0	3,857.8
Total Annual Energy - MWh	12,371,327.1	159,712.7	220,782.8	1,426.0	30.0	16,697.1	160,628.0	287,511.0	
Change in energy charge									
in \$/MWh	\$ 4.2713	\$ 2.2637	\$ 4.6030			\$ 2.5113			
in \$/kWh - rounded to 6 places	\$ 0.004271	\$ 0.002264	\$ 0.004603			\$ 0.002511			
Revised NITS Charge	\$ 92,569.05								
Difference Per MW/Year	\$ 1,344.87								
Difference Per MW/month	\$ 112.07								
Number of Months (May-December)		8							
Change in NITS \$'s	\$ 3,368,347.39	\$ 23,046.58	\$ 64,780.63			\$ 2,672.85		\$ 3,458,847.44	
Remaining MWhs (May -December)	8,588,854	85,906	156,144			8,419		8,839,322	
Change in energy charge									
in \$/MWh	\$ 0.3922	\$ 0.2683	\$ 0.4149			\$ 0.3175			
Revised Change in \$/MWh	\$ 4.6635	\$ 2.5320	\$ 5.0178			\$ 2.8288			
in \$/kWh - rounded to 6 places	\$ 0.004663	\$ 0.002532	\$ 0.005018			\$ 0.002829			

Line #

1	Total BGS-RSCP Trans Obl	6,633.6 MW			= sum of BGS-RSCP eligible Trans Obl adjusted for migration
2	Total BGS-RSCP energy @ cust	24,216,290 MWh			= sum of BGS-RSCP eligible kWh @ cust adjusted for migration
3	Total BGS-RSCP energy @ trans nodes	25,990,884 MWh	unrounded		= (2) * loss expansion factor to trans node
4	Change in OATT rate * total Trans Obl	\$ 93,303,177	unrounded		= Change in OATT rate * Total BGS-RSCP eligible Trans Obl adjusted for migration
5	Change in Average Supplier Payment Rate	\$ 3.5898 /MWh	unrounded		= (4) / (3)
6	Change in Average Supplier Payment Rate	\$ 3.59 /MWh	rounded to 2 decimal places		= (5) rounded to 2 decimal places
7	Proposed Total Supplier Payment	\$ 93,307,273	unrounded		= (6) * (3)
8	Difference due to rounding	\$ 4,097	unrounded		= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP

Attachment 6c - PJM Schedule 12 - Transmission Enhancement Charges for January 2017 - December 2017

Calculation of costs and monthly PJM charges for VEPCO Projects

TEC Charges for Jan 2017 - Dec 2017	\$	9,887,747.84							
PSE&G Zonal Transmission Load for Effective Yr. (MW) (1/1/17)		9,800.30							
Term (Months)		12							
OATT rate	\$	84.08 /MW/month							
Resulting Increase in Transmission Rate	\$	1,008.96 /MW/yr							
		RS	RHS	RLM	WH	WHS	HS	PSAL	BPL
Trans Obl - MW		3892.6	25.5	73.1	0.0	0.0	2.8	0.0	0.0
Total Annual Energy - MWh		12,201,596	133,056	218,246	1,283	27	15,197	158,968	296,268
Change in energy charge in \$/MWh	\$	0.3219	\$ 0.1934	\$ 0.3379	\$ -	\$ -	\$ 0.1859	\$ -	\$ -
in \$/kWh - rounded to 6 places	\$	0.000322	\$ 0.000193	\$ 0.000338	\$ -	\$ -	\$ 0.000186	\$ -	\$ -
Current Energy Charge in \$/MWh	\$	0.2995	\$ 0.1588	\$ 0.3228	\$ -	\$ -	\$ 0.1761	\$ -	\$ -
in \$/kWh - rounded to 6 places	\$	0.000300	\$ 0.000159	\$ 0.000323	\$ -	\$ -	\$ 0.000176	\$ -	\$ -
Variance Energy Charge in \$/MWh	\$	0.02234	\$ 0.03461	\$ 0.01514	\$ -	\$ -	\$ 0.00978	\$ -	\$ -
in \$/kWh - rounded to 6 places		0.000022	0.000035	0.000015	0	0	0.00001	0	0
% difference		7.33%	22.01%	4.64%	0.00%	0.00%	5.68%	0.00%	0.00%

Line #

1	Total BGS-RSCP Trans Obl	6,633.6 MW		= sum of BGS-RSCP eligible Trans Obl adjusted for migration
2	Total BGS-RSCP energy @ cust	24,216,290.0 MWh		= sum of BGS-RSCP eligible kWh @ cust adjusted for migration
3	Total BGS-RSCP energy @ trans nodes	25,990,883.9 MWh	unrounded	= (2) * loss expansion factor to trans node
4	Change in OATT rate * total Trans Obl	\$ 6,693,037	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5	Change in Average Supplier Payment Rate	\$ 0.2575 /MWh	unrounded	= (4) / (3)
6	Change in Average Supplier Payment Rate	\$ 0.26 /MWh	rounded to 2 decimal places	= (5) rounded to 2 decimal places
7	Proposed Total Supplier Payment	\$ 6,757,630	unrounded	= (6) * (3)
8	Difference due to rounding	\$ 64,593	unrounded	= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP
PJM Schedule 12 - Transmission Enhancement Charges for January 2017 - December 2017
Calculation of costs and monthly PJM charges for PATH Project

TEC Charges for Jan 2017 - Dec 2017 \$ 1,331,678.46
PSE&G Zonal Transmission Load for Effective Yr. (MW) (1/1/17) 9,800.30
Term (Months) 12
OATT rate \$ 11.32 /MW/month all values show w/o NJ SUT
Resulting Increase in Transmission Rate \$ 135.84 /MW/yr

	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL
Trans Obl - MW	3892.6	25.5	73.1	0.0	0.0	2.8	0.0	0.0
Total Annual Energy - MWh	12,201,596	133,056	218,246	1,283	27	15,197	158,968	296,268
Change in energy charge in \$/MWh	\$ 0.0433	\$ 0.0260	\$ 0.0455	\$ -	\$ -	\$ 0.0250	\$ -	\$ -
in \$/kWh - rounded to 6 places	\$ 0.000043	\$ 0.000026	\$ 0.000045	\$ -	\$ -	\$ 0.000025	\$ -	\$ -
Current Energy Charge in \$/MWh	\$ 0.0391	\$ 0.0207	\$ 0.0421	\$ -	\$ -	\$ 0.0230	\$ -	\$ -
in \$/kWh - rounded to 6 places	\$ 0.000039	\$ 0.000021	\$ 0.000042	\$ -	\$ -	\$ 0.000023	\$ -	\$ -
Variance Energy Charge in \$/MWh	\$ 0.00427	\$ 0.00533	\$ 0.00340	\$ -	\$ -	\$ 0.00206	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000004	0.000005	0.000003	0	0	0.000002	0	0
% difference	10.26%	23.81%	7.14%	0.00%	0.00%	8.70%	0.00%	0.00%

Line #

1	Total BGS-RSCP Trans Obl	6,633.6 MW						= sum of BGS-RSCP eligible Trans Obl adjusted for migration
2	Total BGS-RSCP energy @ cust	24,216,290 MWh						= sum of BGS-RSCP eligible kWh @ cust adjusted for migration
3	Total BGS-RSCP energy @ trans nodes	25,990,884 MWh	unrounded					= (2) * loss expansion factor to trans node
4	Change in OATT rate * total Trans Obl	\$ 901,108	unrounded					= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5	Change in Average Supplier Payment Rate	\$ 0.0347 /MWh	unrounded					= (4) / (3)
6	Change in Average Supplier Payment Rate	\$ 0.03 /MWh	rounded to 2 decimal places					= (5) rounded to 2 decimal places
7	Proposed Total Supplier Payment	\$ 779,727	unrounded					= (6) * (3)
8	Difference due to rounding	\$ (121,382)	unrounded					= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP
PJM Schedule 12 - Transmission Enhancement Charges for June 2016 - May 2017
Calculation of costs and monthly PJM charges for Allegheny TrAILCo Project

TEC Charges for June 2016 - May 2017 \$ 12,700,175
PSE&G Zonal Transmission Load for Effective Yr.
(MW) 9,800.3
Term (Months) 12
OATT rate \$ 107.99 /MW/month all values show w/o NJ SUT
converted to \$/MW/yr = \$ 1,295.88 /MW/yr

	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL
Trans Obl - MW	3892.6	25.5	73.1	0.0	0.0	2.8	0.0	0.0
Total Annual Energy - MWh	12,201,596	133,056	218,246	1,283	27	15,197	158,968	296,268
Energy Charge in \$/MWh	\$ 0.413417	\$ 0.248354	\$ 0.434046	\$ -	\$ -	\$ 0.238762	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000413	0.000248	0.000434	0	0	0.000239	0	0
Current Energy Charge in \$/MWh	\$ 0.381468	\$ 0.202134	\$ 0.411356	\$ -	\$ -	\$ 0.225697	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000381	0.000202	0.000411	0	0	0.000226	0	0
Variance Energy Charge in \$/MWh	\$ 0.03195	\$ 0.04622	\$ 0.02269	\$ -	\$ -	\$ 0.01307	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000032	0.000046	0.000023	0	0	0.000013	0	0
% difference	8.40%	22.77%	5.60%	0.00%	0.00%	5.75%	0.00%	0.00%

Line #

1	Total BGS-RSCP eligible Trans Obl	6633.6 MW		= sum of BGS-RSCP eligible Trans Obl
2	Total BGS-RSCP eligible energy @ cust	24,216,290 MWh		= sum of BGS-RSCP eligible kWh @ cust
3	Total BGS-RSCP eligible energy @ trans nodes	25,990,883 MWh	unrounded	= (2) * loss expansion factor to trans node
4	Change in OATT rate * total Trans Obl	\$ 8,596,350	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5	Change in Average Supplier Payment Rate	\$ 0.3307 /MWh	unrounded	= (4) / (3)
6	Change in Average Supplier Payment Rate	\$ 0.33 /MWh	rounded to 2 decimal places	= (5) rounded to 2 decimal places
7	Proposed Total Supplier Payment	\$ 8,576,992	unrounded	= (6) * (3)
8	Difference due to rounding	\$ (19,358)	unrounded	= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP
PJM Schedule 12 - Transmission Enhancement Charges for June 2016 - May 2017
Calculation of costs and monthly PJM charges for Delmarva Projects

TEC Charges for June 2016 - May 2017 \$ 40,157
PSE&G Zonal Transmission Load for Effective Yr.
(MW) 9,800.3
Term (Months) 12
OATT rate \$ 0.34 /MW/month all values show w/o NJ SUT
converted to \$/MW/yr = \$ 4.08 /MW/yr

	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL
Trans Obl - MW	3892.6	25.5	73.1	0.0	0.0	2.8	0.0	0.0
Total Annual Energy - MWh	12,201,596	133,056	218,246	1,283	27	15,197	158,968	296,268
Energy charge in \$/MWh	\$ 0.001302	\$ 0.000782	\$ 0.001367	\$ -	\$ -	\$ 0.000752	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000001	0.000001	0.000001	0	0	0.000001	0	0
Current Energy Charge in \$/MWh	\$ 0.001203	\$ 0.000637	\$ 0.001297	\$ -	\$ -	\$ 0.000712	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000001	0.000001	0.000001	0	0	0.000001	0	0
Variance Energy Charge in \$/MWh	\$ 0.00010	\$ 0.00015	\$ 0.00007	\$ -	\$ -	\$ 0.00004	\$ -	\$ -
in \$/kWh - rounded to 6 places	0	0	0	0	0	0	0	0
% difference	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Line #

1	Total BGS-RSCP eligible Trans Obl	6633.6 MW		= sum of BGS-RSCP eligible Trans Obl
2	Total BGS-RSCP eligible energy @ cust	24,216,290 MWh		= sum of BGS-RSCP eligible kWh @ cust
3	Total BGS-RSCP eligible energy @ trans nodes	25,990,883 MWh	unrounded	= (2) * loss expansion factor to trans node
4	Change in OATT rate * total Trans Obl	\$ 27,065	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5	Change in Average Supplier Payment Rate	\$ 0.0010 /MWh	unrounded	= (4) / (3)
6	Change in Average Supplier Payment Rate	\$ - /MWh	rounded to 2 decimal places	= (5) rounded to 2 decimal places
7	Proposed Total Supplier Payment	\$ -	unrounded	= (6) * (3)
8	Difference due to rounding	\$ (27,065)	unrounded	= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP
PJM Schedule 12 - Transmission Enhancement Charges for June 2016 - May 2017
Calculation of costs and monthly PJM charges for ACE Projects

TEC Charges for June 2016 - May 2017 \$ 1,288,226
PSE&G Zonal Transmission Load for Effective Yr.
(MW) 9,800.3
Term (Months) 12
OATT rate \$ 10.95 /MW/month all values show w/o NJ SUT
converted to \$/MW/yr = \$ 131.40 /MW/yr

	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL
Trans Obl - MW	3,892.6	25.5	73.1	0.0	0.0	2.8	0.0	0.0
Total Annual Energy - MWh	12,201,596	133,056	218,246	1,283	27	15,197	158,968	296,268
Energy charge in \$/MWh	\$ 0.041920	\$ 0.025183	\$ 0.044012	\$ -	\$ -	\$ 0.024210	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000042	0.000025	0.000044	0	0	0.000024	0	0
Current Energy Charge in \$/MWh	\$ 0.040413	\$ 0.021414	\$ 0.043580	\$ -	\$ -	\$ 0.023911	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.00004	0.000021	0.000044	0	0	0.000024	0	0
Variance Energy Charge in \$/MWh	\$ 0.00151	\$ 0.00377	\$ 0.00043	\$ -	\$ -	\$ 0.00030	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000002	0.000004	0	0	0	0	0	0
% difference	5.00%	19.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Line #

1	Total BGS-RSCP eligible Trans Obl	6633.6 MW		= sum of BGS-RSCP eligible Trans Obl
2	Total BGS-RSCP eligible energy @ cust	24,216,290 MWh		= sum of BGS-RSCP eligible kWh @ cust
3	Total BGS-RSCP eligible energy @ trans nodes	25,990,883 MWh	unrounded	= (2) * loss expansion factor to trans node
4	Change in OATT rate * total Trans Obl	\$ 871,655	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5	Change in Average Supplier Payment Rate	\$ 0.0335 /MWh	unrounded	= (4) / (3)
6	Change in Average Supplier Payment Rate	\$ 0.03 /MWh	rounded to 2 decimal places	= (5) rounded to 2 decimal places
7	Proposed Total Supplier Payment	\$ 779,727	unrounded	= (6) * (3)
8	Difference due to rounding	\$ (91,929)	unrounded	= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP
PJM Schedule 12 - Transmission Enhancement Charges for June 2016 - May 2017
Calculation of costs and monthly PJM charges for PEPCO Projects

TEC Charges for June 2016 - May 2017 \$ 392,056
PSE&G Zonal Transmission Load for Effective Yr.
(MW) 9,800.3
Term (Months) 12
OATT rate \$ 3.33 /MW/month all values show w/o NJ SUT
converted to \$/MW/yr = \$ 39.96 /MW/yr

	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL
Trans Obl - MW	3892.6	25.5	73.1	0.0	0.0	2.8	0.0	0.0
Total Annual Energy - MWh	12,201,596	133,056	218,246	1,283	27	15,197	158,968	296,268
Energy Charge in \$/MWh	\$ 0.012748	\$ 0.007658	\$ 0.013384	\$ -	\$ -	\$ 0.007363	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000013	0.000008	0.000013	0	0	0.000007	0	0
Current Energy Charge in \$/MWh	\$ 0.012281	\$ 0.006507	\$ 0.013243	\$ -	\$ -	\$ 0.007266	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000012	0.000007	0.000013	0	0	0.000007	0	0
Variance Energy Charge in \$/MWh	\$ 0.00047	\$ 0.00115	\$ 0.00014	\$ -	\$ -	\$ 0.00010	\$ -	\$ -
in \$/kWh - rounded to 6 places	0	0.000001	0	0	0	0	0	0
% difference	0.00%	14.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Line #

1	Total BGS-RSCP eligible Trans Obl	6633.6 MW		= sum of BGS-RSCP eligible Trans Obl
2	Total BGS-RSCP eligible energy @ cust	24,216,290 MWh		= sum of BGS-RSCP eligible kWh @ cust
3	Total BGS-RSCP eligible energy @ trans nodes	25,990,883 MWh	unrounded	= (2) * loss expansion factor to trans node
4	Change in OATT rate * total Trans Obl	\$ 265,079	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5	Change in Average Supplier Payment Rate	\$ 0.0102 /MWh	unrounded	= (4) / (3)
6	Change in Average Supplier Payment Rate	\$ 0.01 /MWh	rounded to 2 decimal places	= (5) rounded to 2 decimal places
7	Proposed Total Supplier Payment	\$ 259,909	unrounded	= (6) * (3)
8	Difference due to rounding	\$ (5,170)	unrounded	= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP
PJM Schedule 12 - Transmission Enhancement Charges for June 2016 - May 2017
Calculation of costs and monthly PJM charges for PPL Projects

TEC Charges for June 2016 - May 2017 \$ 6,474,399
PSE&G Zonal Transmission Load for Effective Yr.
(MW) 9,800.3
Term (Months) 12
OATT rate \$ 55.05 /MW/month all values show w/o NJ SUT
converted to \$/MW/yr = \$ 660.60 /MW/yr

	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL
Trans Obl - MW	3892.6	25.5	73.1	0.0	0.0	2.8	0.0	0.0
Total Annual Energy - MWh	12,201,596	133,056	218,246	1,283	27	15,197	158,968	296,268
Energy charge in \$/MWh	\$ 0.210747	\$ 0.126603	\$ 0.221263	\$ -	\$ -	\$ 0.121713	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000211	0.000127	0.000221	0	0	0.000122	0	0
Current Energy Charge in \$/MWh	\$ 0.194560	\$ 0.103094	\$ 0.209804	\$ -	\$ -	\$ 0.115112	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000195	0.000103	0.00021	0	0	0.000115	0	0
Variance Energy Charge in \$/MWh	\$ 0.01619	\$ 0.02351	\$ 0.01146	\$ -	\$ -	\$ 0.00660	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000016	0.000024	0.000011	0	0	0.000007	0	0
% difference	8.21%	23.30%	5.24%	0.00%	0.00%	6.09%	0.00%	0.00%

Line #

1	Total BGS-RSCP eligible Trans Obl	6633.6 MW		= sum of BGS-RSCP eligible Trans Obl
2	Total BGS-RSCP eligible energy @ cust	24,216,290 MWh		= sum of BGS-RSCP eligible kWh @ cust
3	Total BGS-RSCP eligible energy @ trans nodes	25,990,883 MWh	unrounded	= (2) * loss expansion factor to trans node
4	Change in OATT rate * total Trans Obl	\$ 4,382,156	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5	Change in Average Supplier Payment Rate	\$ 0.1686 /MWh	unrounded	= (4) / (3)
6	Change in Average Supplier Payment Rate	\$ 0.17 /MWh	rounded to 2 decimal places	= (5) rounded to 2 decimal places
7	Proposed Total Supplier Payment	\$ 4,418,450	unrounded	= (6) * (3)
8	Difference due to rounding	\$ 36,294	unrounded	= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP
PJM Schedule 12 - Transmission Enhancement Charges for January 2017 - December 2017
Calculation of costs and monthly PJM charges for AEP -East Projects

TEC Charges for January 2017 - December 2017 \$ 3,314,256
PSE&G Zonal Transmission Load for Effective Yr. (MW) 9,800.3
Term (Months) 12
OATT rate \$ 28.18 /MW/month all values show w/o NJ SUT
converted to \$/MW/yr = \$ 338.16 /MW/yr

	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL
Trans Obl - MW	3892.6	25.5	73.1	0.0	0.0	2.8	0.0	0.0
Total Annual Energy - MWh	12,201,596	133,056	218,246	1,283	27	15,197	158,968	296,268
Energy Charge in \$/MWh	\$ 0.107881	\$ 0.064808	\$ 0.113264	\$ -	\$ -	\$ 0.062305	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000108	0.000065	0.000113	0	0	0.000062	0	0
Current Energy Charge in \$/MWh	\$ 0.098064	\$ 0.051962	\$ 0.105747	\$ -	\$ -	\$ 0.058020	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.000098	0.000052	0.000106	0	0	0.000058	0	0
Variance Energy Charge in \$/MWh	\$ 0.00982	\$ 0.01285	\$ 0.00752	\$ -	\$ -	\$ 0.00429	\$ -	\$ -
in \$/kWh - rounded to 6 places	0.00001	0.000013	0.000008	0	0	0.000004	0	0
% difference	10.20%	25.00%	7.55%	0.00%	0.00%	6.90%	0.00%	0.00%

Line #

1	Total BGS-RSCP eligible Trans Obl	6633.6 MW		= sum of BGS-RSCP eligible Trans Obl
2	Total BGS-RSCP eligible energy @ cust	24,216,290 MWh		= sum of BGS-RSCP eligible kWh @ cust
3	Total BGS-RSCP eligible energy @ trans nodes	25,990,883 MWh	unrounded	= (2) * loss expansion factor to trans node
4	Change in OATT rate * total Trans Obl	\$ 2,243,218	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5	Change in Average Supplier Payment Rate	\$ 0.0863 /MWh	unrounded	= (4) / (3)
6	Change in Average Supplier Payment Rate	\$ 0.09 /MWh	rounded to 2 decimal places	= (5) rounded to 2 decimal places
7	Proposed Total Supplier Payment	\$ 2,339,180	unrounded	= (6) * (3)
8	Difference due to rounding	\$ 95,961	unrounded	= (7) - (4)

Attachment 3a (Pro-forma JCPL Tariff Sheets)
Attachment 3b (JCPL –Translation of PSE&G TEC into Customer Rates)
Attachment 3c (JCP&L Translation of VEPCo TEC into Customer Rates)
Attachment 3d (JCP&L Translation of PATH TEC into Customer Rates)
Attachment 3e (JCP&L Translation of TrailCo TEC into Customer Rates)
Attachment 3f (JCP&L Translation of Delmarva TEC into Customer Rates)
Attachment 3g (JCP&L Translation of ACE TEC into Customer Rates)
Attachment 3h (JCP&L Translation of PEPCO TEC into Customer Rates)
Attachment 3i (JCP&L Translation of PPL TEC into Customer Rates)
Attachment 3j (JCP&L Translation of AEP East TEC into Customer Rates)

JERSEY CENTRAL POWER & LIGHT COMPANY

BPU No. 12 ELECTRIC - PART III

XX Rev. Sheet No. 36
Superseding XX Rev. Sheet No. 36

Rider BGS-RSCP
Basic Generation Service – Residential Small Commercial Pricing
 (Applicable to Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED)

2) BGS Transmission Charge per KWH: As provided in the respective tariff for Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED. Effective January 1, 2013, a RMR surcharge of **\$0.000000** per KWH (includes Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage.

Effective May 1, 2017, the following TEC surcharges (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage, except lighting under Service Classifications OL, SVL, MVL, ISL and LED:

PATH-TEC surcharge of **\$0.000046** per KWH
 VEPCO-TEC surcharge of **\$0.000342** per KWH
 PSEG-TEC surcharge of **\$0.001752** per KWH
 TRAILCO-TEC surcharge of **\$0.000483** per KWH
 PEPCO-TEC surcharge of **\$0.000015** per KWH
 ACE-TEC surcharge of **\$0.000086** per KWH
 Delmarva-TEC surcharge of **\$0.000001** per KWH
 AEP-East-TEC surcharge of **\$0.000111** per KWH
 PPL-TEC surcharge of **\$0.000221** per KWH

3) BGS Reconciliation Charge per KWH: (\$0.001680) (includes Sales and Use Tax as provided in Rider SUT)

The above BGS Reconciliation Charge recovers the difference between the payments to BGS suppliers and the revenues from BGS customers for Basic Generation Service and is subject to quarterly true-up.

Issued:

Effective: May 1, 2017

Filed pursuant to Order of Board of Public Utilities
Docket No. dated

Issued by James V. Fakult, President
 300 Madison Avenue, Morristown, NJ 07962-1911

JERSEY CENTRAL POWER & LIGHT COMPANY

BPU No. 12 ELECTRIC - PART III

XX Rev. Sheet No. 38
Superseding XX Rev. Sheet No. 38

Rider BGS-CIEP
Basic Generation Service – Commercial Industrial Energy Pricing
 (Applicable to Service Classifications GP and GT and
 Certain Customers under Service Classifications GS and GST)

3) BGS Transmission Charge per KWH: (Continued)

Effective May 1, 2017, the following TEC surcharges (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage:

	<u>PATH-TEC</u>	<u>VEPCO-TEC</u>	<u>PSEG-TEC</u>
GS and GST	\$0.000046	\$0.000342	\$0.001752
GP	\$0.000028	\$0.000211	\$0.001077
GT	\$0.000025	\$0.000186	\$0.000952
GT – High Tension Service	\$0.000005	\$0.000044	\$0.000222

	<u>TRAILCO-TEC</u>	<u>PEPCO-TEC</u>	<u>ACE-TEC</u>
GS and GST	\$0.000483	\$0.000015	\$0.000086
GP	\$0.000297	\$0.000010	\$0.000052
GT	\$0.000263	\$0.000009	\$0.000046
GT – High Tension Service	\$0.000061	\$0.000002	\$0.000011

	<u>Delmarva-TEC</u>	<u>AEP-East-TEC</u>	<u>PPL-TEC</u>
GS and GST	\$0.000001	\$0.000111	\$0.000221
GP	\$0.000001	\$0.000068	\$0.000136
GT	\$0.000001	\$0.000060	\$0.000121
GT – High Tension Service	\$0.000000	\$0.000014	\$0.000028

4) BGS Reconciliation Charge per KWH: (\$0.000234) (includes Sales and Use Tax as provided in Rider SUT)

The above BGS Reconciliation Charge recovers the difference between the payments to BGS suppliers and the revenues from BGS customers for Basic Generation Service and is subject to quarterly true-up.

Issued:

Effective: May 1, 2017

Filed pursuant to Order of Board of Public Utilities
 Docket No. dated

Issued by James V. Fakult, President
 300 Madison Avenue, Morristown, NJ 07962-1911

Attachment 3b

Jersey Central Power & Light Company

Proposed PSEG Project Transmission Enhancement Charge (PSEG-TEC Surcharge) effective May 1, 2017
 To reflect FERC-approved PSEG Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective May 2017

2017 Average Monthly PSEG-TEC Costs Allocated to JCP&L Zone	\$ 2,566,706.76	(1)
2017 JCP&L Zone Transmission Peak Load (MW)	5954.8	
PSEG-Transmission Enhancement Rate (\$/MW-month)	\$ 431.03	

BGS by Voltage Level	Transmission Obligation (MW)	Allocated Cost Recovery (\$) (2)	BGS Eligible Sales (kWh) (3)	Effective May 1, 2017:	
				PSEG-TEC Surcharge (\$/kWh)	PSEG-TEC Surcharge w/ SUT(\$/kWh)
Secondary (excluding lighting)	5168.8	26,734,991	16,314,804,120	\$ 0.001639	\$ 0.001752
Primary	351.1	1,816,022	1,800,816,675	\$ 0.001008	\$ 0.001077
Transmission @ 34.5 kV	287.0	1,484,473	1,665,562,801	\$ 0.000891	\$ 0.000952
Transmission @ 230 kV	14.0	72,413	348,001,239	\$ 0.000208	\$ 0.000222
Total	5820.9	30,107,900	20,129,184,835		

- (1) Cost Allocation of PSEG Project Schedule 12 Charges to JCP&L Zone for 2017
- (2) Based on 12 months PSEG Project costs from January through December 2017
- (3) May 2017 through April 2018

BGS-RSCP Supplier Payment Adjustment

<u>Line No.</u>		
1	BGS-RSCP Eligible Sales January through December @ Customer	15,262,858 MWH
2	BGS-RSCP Eligible Sales January through December @ Transmission Node	16,937,499 MWH
3	BGS-RSCP Eligible Transmission Obligation	4,825 MW
4	PSEG-Transmission Enhancement Costs to RSCP Suppliers	\$ 24,956,728 = Line 3 x \$431.03 x 12
5	Change to Supplier Payment Rates \$/MWH (rounded to 2 decimals)	\$ 1.47 = Line 4 / Line 2

Attachment 3c

Jersey Central Power & Light Company

Proposed VEPCO Project Transmission Enhancement Charge (VEPCO-TEC Surcharge) effective May 1, 2017
 To reflect FERC-approved VEPCO Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective May 2017

2017 Average Monthly VEPCO-TEC Costs Allocated to JCP&L Zone	\$ 501,617.99	(1)
2017 JCP&L Zone Transmission Peak Load (MW)	5954.8	
VEPCO-Transmission Enhancement Rate (\$/MW-month)	\$ 84.24	

BGS by Voltage Level	Transmission Obligation (MW)	Allocated Cost Recovery (\$) (2)	BGS Eligible Sales (kWh) (3)	Effective May 1, 2017:	
				VEPCO-TEC Surcharge (\$/kWh)	VEPCO-TEC Surcharge w/ SUT(\$/kWh)
Secondary (excluding lighting)	5168.8	5,224,887	16,314,804,120	\$ 0.000320	\$ 0.000342
Primary	351.1	354,910	1,800,816,675	\$ 0.000197	\$ 0.000211
Transmission @ 34.5 kV	287.0	290,114	1,665,562,801	\$ 0.000174	\$ 0.000186
Transmission @ 230 kV	14.0	14,152	348,001,239	\$ 0.000041	\$ 0.000044
Total	5820.9	5,884,063	20,129,184,835		

- (1) Cost Allocation of VEPCO Project Schedule 12 Charges to JCP&L Zone for 2017
- (2) Based on 12 months VEPCO Project costs from January through December 2017
- (3) May 2017 through April 2018

BGS-RSCP Supplier Payment Adjustment

<u>Line No.</u>		
1	BGS-RSCP Eligible Sales January through December @ Customer	15,262,858 MWH
2	BGS-RSCP Eligible Sales January through December @ Transmission Node	16,937,499 MWH
3	BGS-RSCP Eligible Transmission Obligation	4,825 MW
4	VEPCO-Transmission Enhancement Costs to RSCP Suppliers	\$ 4,877,356 = Line 3 x \$84.24 x 12
5	Change to Supplier Payment Rates \$/MWH (rounded to 2 decimals)	\$ 0.29 = Line 4 / Line 2

Attachment 3d

Jersey Central Power & Light Company

Proposed PATH Project Transmission Enhancement Charge (PATH-TEC Surcharge) effective May 1, 2017
 To reflect FERC-approved PATH Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective May 2017

2017 Average Monthly PATH-TEC Costs Allocated to JCP&L Zone	\$	67,440.31	(1)
2017 JCP&L Zone Transmission Peak Load (MW)		5954.8	
PATH-Transmission Enhancement Rate (\$/MW-month)	\$	11.33	

BGS by Voltage Level	Transmission Obligation (MW)	Allocated Cost Recovery (\$) (2)	BGS Eligible Sales (kWh) (3)	Effective May 1, 2017:			
				PATH-TEC Surcharge (\$/kWh)	PATH-TEC Surcharge w/ SUT(\$/kWh)		
Secondary (excluding lighting)	5168.8	702,463	16,314,804,120	\$	0.000043	\$	0.000046
Primary	351.1	47,716	1,800,816,675	\$	0.000026	\$	0.000028
Transmission @ 34.5 kV	287.0	39,005	1,665,562,801	\$	0.000023	\$	0.000025
Transmission @ 230 kV	14.0	1,903	348,001,239	\$	0.000005	\$	0.000005
Total	5820.9	791,086	20,129,184,835				

- (1) Cost Allocation of PATH Project Schedule 12 Charges to JCP&L Zone for 2017
- (2) Based on 12 months PATH Project costs from January through December 2017
- (3) May 2017 through April 2018

BGS-RSCP Supplier Payment Adjustment

<u>Line No.</u>		
1	BGS-RSCP Eligible Sales January through December @ Customer	15,262,858 MWH
2	BGS-RSCP Eligible Sales January through December @ Transmission Node	16,937,499 MWH
3	BGS-RSCP Eligible Transmission Obligation	4,825 MW
4	PATH-Transmission Enhancement Costs to RSCP Suppliers	\$ 655,739 = Line 3 x \$11.33 x 12
5	Change to Supplier Payment Rates \$/MWH (rounded to 2 decimals)	\$ 0.04 = Line 4 / Line 2

Attachment 3e

Jersey Central Power & Light Company

Proposed TRAILCO Project Transmission Enhancement Charge (TRAILCO-TEC Surcharge) effective May 1, 2017

To reflect FERC-approved TRAILCO Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective May 2017

2016/2017 Average Monthly TRAILCO-TEC Costs Allocated to JCP&L Zone	\$	708,508.72	(1)
2017 JCP&L Zone Transmission Peak Load (MW)		5954.8	
TRAILCO-Transmission Enhancement Rate (\$/MW-month)	\$	118.98	

BGS by Voltage Level	Transmission Obligation (MW)	Allocated Cost Recovery (\$) (2)	BGS Eligible Sales (kWh) (3)	Effective May 1, 2017:			
				TRAILCO-TEC Surcharge (\$/kWh)	TRAILCO-TEC Surcharge w/ SUT(\$/kWh)		
Secondary (excluding lighting)	5168.8	7,379,875	16,314,804,120	\$	0.000452	\$	0.000483
Primary	351.1	501,291	1,800,816,675	\$	0.000278	\$	0.000297
Transmission @ 34.5 kV	287.0	409,771	1,665,562,801	\$	0.000246	\$	0.000263
Transmission @ 230 kV	14.0	19,989	348,001,239	\$	0.000057	\$	0.000061
Total	5820.9	8,310,926	20,129,184,835				

(1) Cost Allocation of TRAILCO Project Schedule 12 Charges to JCP&L Zone for 2017

(2) Based on 12 months TRAILCO Project costs from June 2016 through May 2017

(3) May 2017 through April 2018

BGS-RSCP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales January through December @ Customer	15,262,858	MWH
2	BGS-RSCP Eligible Sales January through December @ Transmission Node	16,937,499	MWH
3	BGS-RSCP Eligible Transmission Obligation	4,825	MW
4	TRAILCO-Transmission Enhancement Costs to RSCP Suppliers	\$ 6,889,006	= Line 3 x \$118.98 x 12
5	Change to Supplier Payment Rates \$/MWH (rounded to 2 decimals)	\$ 0.41	= Line 4 / Line 2

Attachment 3f

Jersey Central Power & Light Company

Proposed Delmarva Project Transmission Enhancement Charge (Delmarva-TEC Surcharge) effective May 1, 2017

To reflect FERC-approved Delmarva Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective May 2017

2016/2017 Average Monthly Delmarva-TEC Costs Allocated to JCP&L Zone	\$	2,033.66	(1)
2017 JCP&L Zone Transmission Peak Load (MW)		5954.8	
Delmarva-Transmission Enhancement Rate (\$/MW-month)	\$	0.34	

Effective May 1, 2017:

BGS by Voltage Level	Transmission Obligation (MW)	Allocated Cost Recovery (\$) (2)	BGS Eligible Sales (kWh) (3)	Delmarva-TEC Surcharge (\$/kWh)	Delmarva-TEC Surcharge w/ SUT(\$/kWh)
Secondary (excluding lighting)	5168.8	21,183	16,314,804,120	\$ 0.000001	\$ 0.000001
Primary	351.1	1,439	1,800,816,675	\$ 0.000001	\$ 0.000001
Transmission @ 34.5 kV	287.0	1,176	1,665,562,801	\$ 0.000001	\$ 0.000001
Transmission @ 230 kV	14.0	57	348,001,239	\$ -	\$ -
Total	5820.9	23,855	20,129,184,835		

(1) Cost Allocation of Delmarva Project Schedule 12 Charges to JCP&L Zone for 2017

(2) Based on 12 months Delmarva Project costs from June 2016 through May 2017

(3) May 2017 through April 2018

BGS-RSCP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales January through December @ Customer	15,262,858	MWH
2	BGS-RSCP Eligible Sales January through December @ Transmission Node	16,937,499	MWH
3	BGS-RSCP Eligible Transmission Obligation	4,825	MW
4	Delmarva-Transmission Enhancement Costs to RSCP Suppliers	\$ 19,774	= Line 3 x \$0.34 x 12
5	Change to Supplier Payment Rates \$/MWH (rounded to 2 decimals)	\$ -	= Line 4 / Line 2

Attachment 3g

Jersey Central Power & Light Company

Proposed ACE Project Transmission Enhancement Charge (ACE-TEC Surcharge) effective May 1, 2017
 To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective May 2017

2016/2017 Average Monthly ACE-TEC Costs Allocated to JCP&L Zone	\$	124,548.65	(1)
2017 JCP&L Zone Transmission Peak Load (MW)		5954.8	
ACE-Transmission Enhancement Rate (\$/MW-month)	\$	20.92	

BGS by Voltage Level	Transmission Obligation (MW)	Allocated Cost Recovery (\$) (2)	BGS Eligible Sales (kWh) (3)	Effective May 1, 2017:			
				ACE-TEC Surcharge (\$/kWh)	ACE-TEC Surcharge w/ SUT(\$/kWh)		
Secondary (excluding lighting)	5168.8	1,297,307	16,314,804,120	\$	0.000080	\$	0.000086
Primary	351.1	88,122	1,800,816,675	\$	0.000049	\$	0.000052
Transmission @ 34.5 kV	287.0	72,034	1,665,562,801	\$	0.000043	\$	0.000046
Transmission @ 230 kV	14.0	3,514	348,001,239	\$	0.000010	\$	0.000011
Total	5820.9	1,460,976	20,129,184,835				

- (1) Cost Allocation of ACE Project Schedule 12 Charges to JCP&L Zone for 2017
- (2) Based on 12 months ACE Project costs from June 2016 through May 2017
- (3) May 2017 through April 2018

BGS-RSCP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales January through December @ Customer	15,262,858	MWH
2	BGS-RSCP Eligible Sales January through December @ Transmission Node	16,937,499	MWH
3	BGS-RSCP Eligible Transmission Obligation	4,825	MW
4	ACE-Transmission Enhancement Costs to RSCP Suppliers	\$ 1,211,017	= Line 3 x \$20.92 x 12
5	Change to Supplier Payment Rates \$/MWH (rounded to 2 decimals)	\$ 0.07	= Line 4 / Line 2

Attachment 3h

Jersey Central Power & Light Company

Proposed PEPCO Project Transmission Enhancement Charge (PEPCO-TEC Surcharge) effective May 1, 2017

To reflect FERC-approved PEPCO Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective May 2017

2016/2017 Average Monthly PEPCO-TEC Costs Allocated to JCP&L Zone	\$	21,678.70	(1)
2017 JCP&L Zone Transmission Peak Load (MW)		5954.8	
PEPCO-Transmission Enhancement Rate (\$/MW-month)	\$	3.64	

BGS by Voltage Level	Transmission Obligation (MW)	Allocated Cost Recovery (\$) (2)	BGS Eligible Sales (kWh) (3)	Effective May 1, 2017:	
				PEPCO-TEC Surcharge (\$/kWh)	PEPCO-TEC Surcharge w/ SUT(\$/kWh)
Secondary (excluding lighting)	5168.8	225,807	16,314,804,120	\$ 0.000014	\$ 0.000015
Primary	351.1	15,338	1,800,816,675	\$ 0.000009	\$ 0.000010
Transmission @ 34.5 kV	287.0	12,538	1,665,562,801	\$ 0.000008	\$ 0.000009
Transmission @ 230 kV	14.0	612	348,001,239	\$ 0.000002	\$ 0.000002
Total	5820.9	254,295	20,129,184,835		

(1) Cost Allocation of PEPCO Project Schedule 12 Charges to JCP&L Zone for 2017

(2) Based on 12 months PEPCO Project costs from June 2016 through May 2017

(3) May 2017 through April 2018

BGS-RSCP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales January through December @ Customer	15,262,858	MWH
2	BGS-RSCP Eligible Sales January through December @ Transmission Node	16,937,499	MWH
3	BGS-RSCP Eligible Transmission Obligation	4,825	MW
4	PEPCO-Transmission Enhancement Costs to RSCP Suppliers	\$ 210,787	= Line 3 x \$3.64 x 12
5	Change to Supplier Payment Rates \$/MWH (rounded to 2 decimals)	\$ 0.01	= Line 4 / Line 2

Attachment 3i

Jersey Central Power & Light Company

Proposed PPL Project Transmission Enhancement Charge (PPL-TEC Surcharge) effective May 1, 2017

To reflect FERC-approved PPL Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective May 2017

2016/2017 Average Monthly PPL-TEC Costs Allocated to JCP&L Zone	\$	324,228.80	(1)
2017 JCP&L Zone Transmission Peak Load (MW)		5954.8	
PPL-Transmission Enhancement Rate (\$/MW-month)	\$	54.45	

BGS by Voltage Level	Transmission Obligation (MW)	Allocated Cost Recovery (\$) (2)	BGS Eligible Sales (kWh) (3)	Effective May 1, 2017:			
				PPL-TEC Surcharge (\$/kWh)	PPL-TEC Surcharge w/ SUT(\$/kWh)		
Secondary (excluding lighting)	5168.8	3,377,189	16,314,804,120	\$	0.000207	\$	0.000221
Primary	351.1	229,402	1,800,816,675	\$	0.000127	\$	0.000136
Transmission @ 34.5 kV	287.0	187,520	1,665,562,801	\$	0.000113	\$	0.000121
Transmission @ 230 kV	14.0	9,147	348,001,239	\$	0.000026	\$	0.000028
Total	5820.9	3,803,258	20,129,184,835				

(1) Cost Allocation of PPL Project Schedule 12 Charges to JCP&L Zone for 2017

(2) Based on 12 months PPL Project costs from June 2016 through May 2017

(3) May 2017 through April 2018

BGS-RSCP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales January through December @ Customer	15,262,858	MWH
2	BGS-RSCP Eligible Sales January through December @ Transmission Node	16,937,499	MWH
3	BGS-RSCP Eligible Transmission Obligation	4,825	MW
4	PPL-Transmission Enhancement Costs to RSCP Suppliers	\$ 3,152,557	= Line 3 x \$54.45 x 12
5	Change to Supplier Payment Rates \$/MWH (rounded to 2 decimals)	\$ 0.19	= Line 4 / Line 2

Attachment 3j

Jersey Central Power & Light Company

Proposed AEP-East Project Transmission Enhancement Charge (AEP-East-TEC Surcharge) effective May 1, 2017

To reflect FERC-approved AEP-East Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective May 2017

2017 Average Monthly AEP-East-TEC Costs Allocated to JCP&L Zone	\$	162,250.77	(1)
2017 JCP&L Zone Transmission Peak Load (MW)		5954.8	
AEP-East-Transmission Enhancement Rate (\$/MW-month)	\$	27.25	

BGS by Voltage Level	Transmission Obligation (MW)	Allocated Cost Recovery (\$) (2)	BGS Eligible Sales (kWh) (3)	Effective May 1, 2017:			
				AEP-East-TEC Surcharge (\$/kWh)	AEP-East-TEC Surcharge w/ SUT(\$/kWh)		
Secondary (excluding lighting)	5168.8	1,690,015	16,314,804,120	\$	0.000104	\$	0.000111
Primary	351.1	114,797	1,800,816,675	\$	0.000064	\$	0.000068
Transmission @ 34.5 kV	287.0	93,839	1,665,562,801	\$	0.000056	\$	0.000060
Transmission @ 230 kV	14.0	4,578	348,001,239	\$	0.000013	\$	0.000014
Total	5820.9	1,903,229	20,129,184,835				

(1) Cost Allocation of AEP-East Project Schedule 12 Charges to JCP&L Zone for 2017

(2) Based on 12 months AEP-East Project costs from January 2017 through December 2017

(3) May 2017 through April 2018

BGS-RSCP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales January through December @ Customer	15,262,858	MWH
2	BGS-RSCP Eligible Sales January through December @ Transmission Node	16,937,499	MWH
3	BGS-RSCP Eligible Transmission Obligation	4,825	MW
4	AEP-East-Transmission Enhancement Costs to RSCP Suppliers	\$ 1,577,605	= Line 3 x \$27.25 x 12
5	Change to Supplier Payment Rates \$/MWH (rounded to 2 decimals)	\$ 0.09	= Line 4 / Line 2

Attachment 4a (ACE Pro-forma Tariff Sheets)
Attachment 4b (ACE – Translation of PSE&G TEC into Customer Rates)
Attachment 4c (ACE Translation of VEPCo TEC into Customer Rates)
Attachment 4d (ACE Translation of PATH TEC into Customer Rates)
Attachment 4e (ACE Translation of TrailCo TEC into Customer Rates)
Attachment 4f (ACE Translation of Delmarva TEC into Customer Rates)
Attachment 4g (P IC)
Attachment 4h (ACE Translation of PEPCO TEC into Customer Rates)
Attachment 4i (ACE Translation of PPL TEC into Customer Rates)
Attachment 4j (ACE Translation of AEP East TEC into Customer Rates)

ATLANTIC CITY ELECTRIC COMPANY
BPU NJ No. 11 Electric Service - Section IV Revised Sheet Replaces Revised Sheet No. 60b

RIDER (BGS) continued
Basic Generation Service (BGS)

CIEP Standby Fee \$0.000160 per kWh

This charge recovers the costs associated with the winning BGS-CIEP bidders maintaining the availability of the hourly priced default electric supply service plus administrative charges pursuant to N.J.S.A. 48:2-60 and New Jersey Sales and Use Tax as set forth in Rider SUT. This charge is assessed on all kWhs delivered to all CIEP- eligible customers on Rate Schedules MGS Secondary, MGS Primary, AGS Secondary, AGS Primary or TGS.

Transmission Enhancement Charge

This charge reflects Transmission Enhancement Charges ("TECs"), implemented to compensate transmission owners for the annual transmission revenue requirements for "Required Transmission Enhancements" (as defined in Schedule 12 of the PJM OATT) that are requested by PJM for reliability or economic purposes and approved by the Federal Energy Regulatory Commission (FERC). The TEC charge (in \$ per kWh by Rate Schedule), including administrative charges pursuant to N.J.S.A. 48:2-60 and New Jersey Sales and Use Tax as set forth in Rider SUT, is delineated in the following table.

	<u>Rate Class</u>							
	<u>RS</u>	<u>MGS Secondary</u>	<u>MGS Primary</u>	<u>AGS Secondary</u>	<u>AGS Primary</u>	<u>TGS</u>	<u>SPL/CSL</u>	<u>DDC</u>
VEPCo	0.000421	0.000332	0.000349	0.000233	0.000196	0.000150	-	0.000140
TrAILCo	0.000632	0.000498	0.000523	0.000349	0.000294	0.000226	-	0.000209
PSE&G	0.000633	0.000499	0.000524	0.000349	0.000294	0.000226	-	0.000211
PATH	0.000056	0.000044	0.000046	0.000031	0.000026	0.000020	-	0.000018
PPL	0.000260	0.000203	0.000215	0.000142	0.000120	0.000092	-	0.000086
Pepco	0.000022	0.000018	0.000019	0.000013	0.000011	0.000009	-	0.000007
JCP&L	0.000003	0.000003	0.000003	0.000002	0.000002	0.000001	-	0.000001
Delmarva AEP - East	0.000002	0.000001	0.000001	0.000001	0.000001	0.000001	-	0.000001
	0.000116	0.000092	0.000096	0.000064	0.000053	0.000042	-	0.000038
Total	0.002145	0.001690	0.001776	0.001184	0.000997	0.000767	-	0.000711

Date of Issue:

Effective Date:

Issued by:

Atlantic City Electric Company

Proposed PSE&G Projects Transmission Enhancement Charge (PSE&G-TEC Surcharge) effective May 1, 2017

To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective May 1, 2017

Transmission Enhancement Costs Allocated to ACE Zone (2017)	\$	343,175
	\$	343,175

2017 ACE Zone Transmission Peak Load (MW)	2,673
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Transmission Enhancement Rate (\$/MW)	\$	128.37
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales Jan 2017 - Dec 2017 (kWh)	Col. 4 = Col. 2/Col. 3 Transmission Enhancement Charge (\$/kWh)	Col. 5 = Col. 4 x 1/(1-.005) Transmission Enhancement Charge w/ BPU Assessment (\$/kWh)	Col. 6 = Col. 5 x 1.06875 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,545	\$ 2,380,573	4,028,660,063	\$ 0.000591	\$ 0.000592	\$ 0.000633
MGS Secondary	353	\$ 543,914	1,168,175,409	\$ 0.000466	\$ 0.000467	\$ 0.000499
MGS Primary	6	\$ 9,366	19,148,142	\$ 0.000489	\$ 0.000490	\$ 0.000524
AGS Secondary	394	\$ 606,153	1,858,223,848	\$ 0.000326	\$ 0.000327	\$ 0.000349
AGS Primary	94	\$ 145,057	528,913,165	\$ 0.000274	\$ 0.000275	\$ 0.000294
TGS	146	\$ 225,025	1,071,707,477	\$ 0.000210	\$ 0.000211	\$ 0.000226
SPL/CSL	0	\$ -	75,506,174	\$ -	\$ -	\$ -
DDC	2	\$ 2,436	12,386,246	\$ 0.000197	\$ 0.000197	\$ 0.000211
	2,540	\$ 3,912,526	8,762,720,526			

Atlantic City Electric Company

Proposed VEPCO Projects Transmission Enhancement Charge (VEPCO-TEC Surcharge) effective May 1, 2017

To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective May 1, 2017

Transmission Enhancement Costs Allocated to ACE Zone (2017)	\$	228,407
	\$	228,407

2017 ACE Zone Transmission Peak Load (MW)	2,673
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Transmission Enhancement Rate (\$/MW)	\$	85.44
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales Jan 2017 - Dec 2017 (kWh)	Col. 4 = Col. 2/Col. 3 Transmission Enhancement Charge (\$/kWh)	Col. 5 = Col. 4 x 1/(1-.005) Transmission Enhancement Charge w/ BPU Assessment (\$/kWh)	Col. 6 = Col. 5 x 1.06875 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,545	\$ 1,584,435	4,028,660,063	\$ 0.000393	\$ 0.000394	\$ 0.000421
MGS Secondary	353	\$ 362,012	1,168,175,409	\$ 0.000310	\$ 0.000311	\$ 0.000332
MGS Primary	6	\$ 6,234	19,148,142	\$ 0.000326	\$ 0.000327	\$ 0.000349
AGS Secondary	394	\$ 403,436	1,858,223,848	\$ 0.000217	\$ 0.000218	\$ 0.000233
AGS Primary	94	\$ 96,546	528,913,165	\$ 0.000183	\$ 0.000183	\$ 0.000196
TGS	146	\$ 149,770	1,071,707,477	\$ 0.000140	\$ 0.000140	\$ 0.000150
SPL/CSL	-	\$ -	75,506,174	\$ -	\$ -	\$ -
DDC	2	\$ 1,622	12,386,246	\$ 0.000131	\$ 0.000131	\$ 0.000140
	2,540	\$ 2,604,054	8,762,720,526			

Atlantic City Electric Company

Proposed PATH Projects Transmission Enhancement Charge (PATH-TEC Surcharge) effective May 1, 2017

To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective May 1, 2017

Transmission Enhancement Costs Allocated to ACE Zone (2017)	\$	30,330
	\$	30,330

2017 ACE Zone Transmission Peak Load (MW)	2,673
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Transmission Enhancement Rate (\$/MW)	\$	11.35
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales Jan 2017 - Dec 2017 (kWh)	Col. 4 = Col. 2/Col. 3 Transmission Enhancement Charge (\$/kWh)	Col. 5 = Col. 4 x 1/(1-.005) Transmission Enhancement Charge w/ BPU Assessment (\$/kWh)	Col. 6 = Col. 5 x 1.06875 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,545	\$ 210,398	4,028,660,063	\$ 0.000052	\$ 0.000052	\$ 0.000056
MGS Secondary	353	\$ 48,072	1,168,175,409	\$ 0.000041	\$ 0.000041	\$ 0.000044
MGS Primary	6	\$ 828	19,148,142	\$ 0.000043	\$ 0.000043	\$ 0.000046
AGS Secondary	394	\$ 53,573	1,858,223,848	\$ 0.000029	\$ 0.000029	\$ 0.000031
AGS Primary	94	\$ 12,820	528,913,165	\$ 0.000024	\$ 0.000024	\$ 0.000026
TGS	146	\$ 19,888	1,071,707,477	\$ 0.000019	\$ 0.000019	\$ 0.000020
SPL/CSL	-	\$ -	75,506,174	\$ -	\$ -	\$ -
DDC	2	\$ 215	12,386,246	\$ 0.000017	\$ 0.000017	\$ 0.000018
	2,540	\$ 345,794	8,762,720,526			

Atlantic City Electric Company

Proposed TrAIL CO Projects Transmission Enhancement Charge (TrAIL Co Project-TEC Surcharge) effective **May 1, 2017**
 To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective **May 1, 2017**

Transmission Enhancement Costs Allocated to ACE Zone (2017)	\$	342,484
	\$	<u>342,484</u>

2017 ACE Zone Transmission Peak Load (MW)		2,673
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Transmission Enhancement Rate (\$/MW)	\$	128.11
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales Jan 2017 - Dec 2017 (kWh)	Col. 4 = Col. 2/Col. 3 Transmission Enhancement Charge (\$/kWh)	Col. 5 = Col. 4 x 1/(1-Effective Rate) Transmission Enhancement Charge w/ BPU Assessment (\$/kWh)	Col. 6 = Col. 5 x 1.06875 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,545.4	\$ 2,375,780	4,028,660,063	\$ 0.000590	\$ 0.000591	\$ 0.000632
MGS Secondary	353.1	\$ 542,819	1,168,175,409	\$ 0.000465	\$ 0.000466	\$ 0.000498
MGS Primary	6.1	\$ 9,347	19,148,142	\$ 0.000488	\$ 0.000489	\$ 0.000523
AGS Secondary	393.5	\$ 604,932	1,858,223,848	\$ 0.000326	\$ 0.000327	\$ 0.000349
AGS Primary	94.2	\$ 144,765	528,913,165	\$ 0.000274	\$ 0.000275	\$ 0.000294
TGS	146.1	\$ 224,572	1,071,707,477	\$ 0.000210	\$ 0.000211	\$ 0.000226
SPL/CSL	0.0	\$ -	75,506,174	\$ -	\$ -	\$ -
DDC	1.6	\$ 2,432	12,386,246	\$ 0.000196	\$ 0.000196	\$ 0.000209
	<u>2,540</u>	\$ <u>3,904,649</u>	<u>8,762,720,526</u>			

Atlantic City Electric CompanyProposed DPL Projects Transmission Enhancement Charge (DPL Project-TEC Surcharge) effective **May 1, 2017**To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective **May 1, 2017**

Transmission Enhancement Costs Allocated to ACE Zone (2017)	\$	915
	\$	<u>915</u>

2017 ACE Zone Transmission Peak Load (MW)	2,673
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Transmission Enhancement Rate (\$/MW-Month)	\$	0.34
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales Jan 2017 - Dec 2017 (kWh)	Col. 4 = Col. 2/Col. 3 Transmission Enhancement Charge (\$/kWh)	Col. 5 = Col. 4 x 1/(1-Effective Rate) Transmission Enhancement Charge w/ BPU Assessment (\$/kWh)	Col. 6 = Col. 5 x 1.06875 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,545.4	\$ 6,345	\$ 4,028,660,063	\$ 0.000002	\$ 0.000002	\$ 0.000002
MGS Secondary	353.1	\$ 1,450	\$ 1,168,175,409	\$ 0.000001	\$ 0.000001	\$ 0.000001
MGS Primary	6.1	\$ 25	\$ 19,148,142	\$ 0.000001	\$ 0.000001	\$ 0.000001
AGS Secondary	393.5	\$ 1,615	\$ 1,858,223,848	\$ 0.000001	\$ 0.000001	\$ 0.000001
AGS Primary	94.2	\$ 387	\$ 528,913,165	\$ 0.000001	\$ 0.000001	\$ 0.000001
TGS	146.1	\$ 600	\$ 1,071,707,477	\$ 0.000001	\$ 0.000001	\$ 0.000001
SPL/CSL	0.0	\$ -	\$ 75,506,174	\$ -	\$ -	\$ -
DDC	1.6	\$ 6	\$ 12,386,246	\$ 0.000001	\$ 0.000001	\$ 0.000001
	<u>2,540</u>	<u>\$ 10,427</u>	<u>\$ 8,762,720,526</u>			

Atlantic City Electric CompanyProposed PEPCO Projects Transmission Enhancement Charge (PEPCO Project-TEC Surcharge) effective **May 1, 2017**To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective **May 1, 2017**

Transmission Enhancement Costs Allocated to ACE Zone (2017)	\$	12,415
	\$	<u>12,415</u>

2017 ACE Zone Transmission Peak Load (MW)	2,673
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Transmission Enhancement Rate (\$/MW-Month)	\$	4.64
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales Jan 2017 - Dec 2017 (kWh)	Col. 4 = Col. 2/Col. 3 Transmission Enhancement Charge (\$/kWh)	Col. 5 = Col. 4 x 1/(1-Effective Rate) Transmission Enhancement Charge w/ BPU Assessment (\$/kWh)	Col. 6 = Col. 5 x 1.06875 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,545.4	\$ 86,122	4,028,660,063	\$ 0.000021	\$ 0.000021	\$ 0.000022
MGS Secondary	353.1	\$ 19,677	1,168,175,409	\$ 0.000017	\$ 0.000017	\$ 0.000018
MGS Primary	6.1	\$ 339	19,148,142	\$ 0.000018	\$ 0.000018	\$ 0.000019
AGS Secondary	393.5	\$ 21,929	1,858,223,848	\$ 0.000012	\$ 0.000012	\$ 0.000013
AGS Primary	94.2	\$ 5,248	528,913,165	\$ 0.000010	\$ 0.000010	\$ 0.000011
TGS	146.1	\$ 8,141	1,071,707,477	\$ 0.000008	\$ 0.000008	\$ 0.000009
SPL/CSL	0.0	\$ -	75,506,174	\$ -	\$ -	\$ -
DDC	1.6	\$ 88	12,386,246	\$ 0.000007	\$ 0.000007	\$ 0.000007
	<u>2,540</u>	\$ <u>141,544</u>	<u>8,762,720,526</u>			

Atlantic City Electric CompanyProposed PPL Projects Transmission Enhancement Charge (PPL Project-TEC Surcharge) effective **May 1, 2017**To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective **May 1, 2017**

Transmission Enhancement Costs Allocated to ACE Zone (2017)	\$	140,339
	\$	<u>140,339</u>

2017 ACE Zone Transmission Peak Load (MW)	2,673
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Transmission Enhancement Rate (\$/MW-Month)	\$	52.49
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales Jan 2017 - Dec 2017 (kWh)	Col. 4 = Col. 2/Col. 3 Transmission Enhancement Charge (\$/kWh)	Col. 5 = Col. 4 x 1/(1-Effective Rate) Transmission Enhancement Charge w/ BPU Assessment (\$/kWh)	Col. 6 = Col. 5 x 1.06875 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,545.4	\$ 973,515	4,028,660,063	\$ 0.000242	\$ 0.000243	\$ 0.000260
MGS Secondary	353.1	\$ 222,429	1,168,175,409	\$ 0.000190	\$ 0.000190	\$ 0.000203
MGS Primary	6.1	\$ 3,830	19,148,142	\$ 0.000200	\$ 0.000201	\$ 0.000215
AGS Secondary	393.5	\$ 247,881	1,858,223,848	\$ 0.000133	\$ 0.000133	\$ 0.000142
AGS Primary	94.2	\$ 59,320	528,913,165	\$ 0.000112	\$ 0.000112	\$ 0.000120
TGS	146.1	\$ 92,022	1,071,707,477	\$ 0.000086	\$ 0.000086	\$ 0.000092
SPL/CSL	0.0	\$ -	75,506,174	\$ -	\$ -	\$ -
DDC	1.6	\$ 996	12,386,246	\$ 0.000080	\$ 0.000080	\$ 0.000086
	<u>2,540</u>	\$ <u>1,599,994</u>	<u>8,762,720,526</u>			

Atlantic City Electric CompanyProposed AEP Projects Transmission Enhancement Charge (AEP Project-TEC Surcharge) effective **May 1, 2017**To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective **May 1, 2017**

Transmission Enhancement Costs Allocated to ACE Zone (2017)	\$	63,047
	\$	<u>63,047</u>

2017 ACE Zone Transmission Peak Load (MW)	2,673
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Transmission Enhancement Rate (\$/MW-Month)	\$	23.58
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales Jan 2017 - Dec 2017 (kWh)	Col. 4 = Col. 2/Col. 3 Transmission Enhancement Charge (\$/kWh)	Col. 5 = Col. 4 x 1/(1-Effective Rate) Transmission Enhancement Charge w/ BPU Assessment (\$/kWh)	Col. 6 = Col. 5 x 1.06875 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,545.4	\$ 437,352.64	4,028,660,063	\$ 0.000109	\$ 0.000109	\$ 0.000116
MGS Secondary	353.1	\$ 99,927	1,168,175,409	\$ 0.000086	\$ 0.000086	\$ 0.000092
MGS Primary	6.1	\$ 1,721	19,148,142	\$ 0.000090	\$ 0.000090	\$ 0.000096
AGS Secondary	393.5	\$ 111,361	1,858,223,848	\$ 0.000060	\$ 0.000060	\$ 0.000064
AGS Primary	94.2	\$ 26,650	528,913,165	\$ 0.000050	\$ 0.000050	\$ 0.000053
TGS	146.1	\$ 41,341	1,071,707,477	\$ 0.000039	\$ 0.000039	\$ 0.000042
SPL/CSL	0.0	\$ -	75,506,174	\$ -	\$ -	\$ -
DDC	1.6	\$ 448	12,386,246	\$ 0.000036	\$ 0.000036	\$ 0.000038
	<u>2,540</u>	<u>\$ 718,799</u>	<u>8,762,720,526</u>			

Attachment 5a (RECO Pro-forma Tariff Sheets)
Attachment 5b (RECO –Translation of PSE&G TEC into Customer Rates)
Attachment 5c (RECO Translation of VEPCo TEC into Customer Rates)
Attachment 5d (RECO Translation of PATH TEC into Customer Rates)
Attachment 5e (RECO Translation of TrailCo TEC into Customer Rates)
Attachment 5f (RECO Translation of Delmarva TEC into Customer Rates)
Attachment 5g (RECO Translation of ACE TEC into Customer Rates)
Attachment 5h (RECO Translation of PEPCO TEC into Customer Rates)
Attachment 5i (RECO Translation of PPL TEC into Customer Rates)
Attachment 5j (RECO Translation of AEP East TEC into Customer Rates)

Rockland Electric Company

Calculation of Transmission Surcharges reflecting proposed changes effective May 1, 2017

To reflect: RMR Costs

FERC-approved ACE Project Schedule 12 Charges (Schedule 12 PJM OATT)
 FERC-approved AEP-East Project Schedule 12 Charges (Schedule 12 PJM OATT)
 FERC-approved Delmarva Project Schedule 12 Charges (Schedule 12 PJM OATT)
 FERC-approved PATH Project Schedule 12 Charges (Schedule 12 PJM OATT)
 FERC-approved PEPSCO Project Schedule 12 Charges (Schedule 12 PJM OATT)
 FERC-approved PPL Project Schedule 12 Charges (Schedule 12 PJM OATT)
 FERC-approved PSE&G Project Schedule 12 Charges (Schedule 12 PJM OATT)
 FERC-approved TrailCo Project Schedule 12 Charges (Schedule 12 PJM OATT)
 FERC-approved VEPCo Project Schedule 12 Charges (Schedule 12 PJM OATT)

(A) Transmission Surcharge rates by Transmission Project and Service Class (excluding SUT)

Transmission Project	Note	SC1	SC2 Sec	SC2 Pri	SC3	SC4	SC5	SC6	SC7
Reliability Must Run	(1)	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
ACE - TEC	(2)	0.00004	0.00002	0.00002	0.00002	0.00000	0.00002	0.00000	0.00001
AEP-East - TEC	(3)	0.00012	0.00007	0.00006	0.00006	0.00000	0.00008	0.00000	0.00004
Delmarva - TEC	(4)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
PATH - TEC	(5)	0.00005	0.00003	0.00002	0.00002	0.00000	0.00003	0.00000	0.00002
PEPCO - TEC	(6)	0.00001	0.00001	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000
PPL - TEC	(7)	0.00023	0.00013	0.00012	0.00012	0.00000	0.00016	0.00000	0.00008
PSE&G - TEC	(8)	0.00699	0.00413	0.00370	0.00361	0.00000	0.00483	0.00000	0.00255
TrAILCo - TEC	(9)	0.00044	0.00026	0.00023	0.00023	0.00000	0.00030	0.00000	0.00016
VEPCo - TEC	(10)	0.00035	0.00020	0.00018	0.00018	0.00000	0.00024	0.00000	0.00013
Total (\$/kWh and excl SUT)		\$0.00823	\$0.00485	\$0.00433	\$0.00424	\$0.00000	\$0.00567	\$0.00000	\$0.00299
Total (¢/kWh and excl SUT)		0.823 ¢	0.485 ¢	0.433 ¢	0.424 ¢	0.000 ¢	0.567 ¢	0.000 ¢	0.299 ¢

(B) Transmission Surcharge rates by Transmission Project and Service Class (including SUT)**6.875%**

Transmission Project	Note	SC1	SC2 Sec	SC2 Pri	SC3	SC4	SC5	SC6	SC7
Reliability Must Run	(1)	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
ACE - TEC	(2)	0.00004	0.00002	0.00002	0.00002	0.00000	0.00002	0.00000	0.00001
AEP-East - TEC	(3)	0.00013	0.00007	0.00006	0.00006	0.00000	0.00009	0.00000	0.00004
Delmarva - TEC	(4)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
PATH - TEC	(5)	0.00005	0.00003	0.00002	0.00002	0.00000	0.00003	0.00000	0.00002
PEPCO - TEC	(6)	0.00001	0.00001	0.00000	0.00000	0.00000	0.00001	0.00000	0.00000
PPL - TEC	(7)	0.00025	0.00014	0.00013	0.00013	0.00000	0.00017	0.00000	0.00009
PSE&G - TEC	(8)	0.00747	0.00441	0.00395	0.00386	0.00000	0.00516	0.00000	0.00273
TrAILCo - TEC	(9)	0.00047	0.00028	0.00025	0.00025	0.00000	0.00032	0.00000	0.00017
VEPCo - TEC	(10)	0.00037	0.00021	0.00019	0.00019	0.00000	0.00026	0.00000	0.00014
Total (\$/kWh and incl SUT)		\$0.00879	\$0.00517	\$0.00462	\$0.00453	\$0.00000	\$0.00606	\$0.00000	\$0.00320
Total (¢/kWh and incl SUT)		0.879 ¢	0.517 ¢	0.462 ¢	0.453 ¢	0.000 ¢	0.606 ¢	0.000 ¢	0.320 ¢

Notes:

- (1) RMR rates based on allocations by transmission zone. For RECO, the estimated allocation is zero percent for calendar year 2017.
- (2) ACE-TEC rates calculated in Attachment 5 of the joint filing.
- (3) AEP-East-TEC rates calculated in Attachment 5 of the joint filing.
- (4) Delmarva-TEC rates calculated in Attachment 5 of the joint filing.
- (5) PATH-TEC rates calculated in Attachment 5 of the joint filing.
- (6) PEPSCO-TEC rates calculated in Attachment 5 of the joint filing.
- (7) PPL-TEC rates calculated in Attachment 5 of the joint filing.
- (8) PSE&G-TEC rates calculated in Attachment 5 of the joint filing.
- (9) TrAILCo-TEC rates calculated in Attachment 5 of the joint filing.
- (10) VEPCo-TEC rates calculated in Attachment 5 of the joint filing.

DRAFT

Revised Leaf No. 83
Superseding Leaf No. 83

**SERVICE CLASSIFICATION NO. 1
RESIDENTIAL SERVICE (Continued)**

RATE – MONTHLY (Continued)

(3) Transmission Charge

- (a) These charges apply to all customers taking Basic Generation Service from the Company. These charges are also applicable to customers located in the Company's Central and Western Divisions and obtaining Competitive Energy Supply. These charges are not applicable to customers located in the Company's Eastern Division and obtaining Competitive Energy Supply. The Company's Eastern, Central and Western Divisions are defined in General Information Section No. 1.

	<u>Summer Months*</u>	<u>Other Months</u>
First 250 kWh @	1.208 ¢ per kWh	1.208 ¢ per kWh
Over 250 kWh @	1.208 ¢ per kWh	1.208 ¢ per kWh

- (b) Transmission Surcharge – This charge is applicable to all customers taking Basic Generation Service from the Company and includes surcharges related to Reliability Must Run and Transmission Enhancement Charges.

All kWh	0.879 ¢ per kWh	0.879 ¢ per kWh
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(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, and Securitization Charges

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, and Securitization Charges as described in General Information Section Nos. 33, 34, and 35, respectively, shall be assessed on all kWh delivered hereunder.

* Definition of Summer Billing Months - June through September

(Continued)

ISSUED:

EFFECTIVE:

ISSUED BY: Timothy Cawley, President
Mahwah, New Jersey 07430

DRAFT

Revised Leaf No. 90
Superseding Leaf No. 90

**SERVICE CLASSIFICATION NO. 2
GENERAL SERVICE (Continued)**

RATE – MONTHLY (Continued)

(3) Transmission Charges (Continued)

(b) Transmission Surcharge – This charge is applicable to all customers taking Basic Generation Service from the Company and includes surcharges related to Reliability Must Run and Transmission Enhancement Charges.

	<u>Summer Months*</u>	<u>Other Months</u>
<u>Secondary Voltage Service Only</u>		
All kWh@	0.517 ¢ per kWh	0.517 ¢ per kWh
<u>Primary Voltage Service Only</u>		
All kWh@	0.462 ¢ per kWh	0.462 ¢ per kWh

(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, and Securitization Surcharges

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, and Securitization Charges as described in General Information Section Nos. 33, 34, and 35, respectively, shall be assessed on all kWh delivered hereunder.

* Definition of Summer Billing Months - June through September

(Continued)

ISSUED:

EFFECTIVE:

ISSUED BY: Timothy Cawley, President
Mahwah, New Jersey 07430

DRAFT

Revised Leaf No. 96
 Superseding Leaf No. 96

**SERVICE CLASSIFICATION NO. 3
 RESIDENTIAL TIME-OF-DAY HEATING SERVICE (Continued)**

RATE – MONTHLY (Continued)

(3) Transmission Charge

(a) These charges apply to all customers taking Basic Generation Service from the Company. These charges are also applicable to customers located in the Company's Central and Western Divisions and obtaining Competitive Energy Supply. These charges are not applicable to customers located in the Company's Eastern Division and obtaining Competitive Energy Supply. The Company's Eastern, Central and Western Divisions are defined in General Information Section No. 1.

	<u>Summer Months*</u>	<u>Other Months</u>
<u>Peak</u>		
All kWh measured between 10:00 a.m. and 10:00 p.m., Monday through Friday @		
	0.810 ¢ per kWh	0.810 ¢ per kWh
<u>Off-Peak</u>		
All other kWh @		
	0.810 ¢ per kWh	0.810 ¢ per kWh

(b) Transmission Surcharge – This charge is applicable to all customers taking Basic Generation Service from the Company and includes surcharges related to Reliability Must Run and Transmission Enhancement Charges.

All kWh @	0.453 ¢ per kWh	0.453 ¢ per kWh
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(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, and Securitization Charges

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, and Securitization Charges, as described in General Information Section Nos. 33, 34, and 35, respectively, shall be assessed on all kWh delivered hereunder.

* Definition of Summer Billing Months - June through September

(Continued)

ISSUED:

EFFECTIVE:

ISSUED BY: Timothy Cawley, President
 Mahwah, New Jersey 07430

DRAFT

Revised Leaf No. 109
Superseding Leaf No. 109

**SERVICE CLASSIFICATION NO. 5
RESIDENTIAL SPACE HEATING SERVICE (Continued)**

RATE - MONTHLY (Continued)

(3) Transmission Charge

- (a) These charges apply to all customers taking Basic Generation Service from the Company. These charges are also applicable to customers located in the Company's Central and Western Divisions and obtaining Competitive Energy Supply. These charges are not applicable to customers located in the Company's Eastern Division and obtaining Competitive Energy Supply. The Company's Eastern, Central and Western Divisions are defined in General Information Section No. 1.

	<u>Summer Months*</u>	<u>Other Months</u>
First 250 kWh ... @	0.793 ¢ per kWh	0.793 ¢ per kWh
Next 450 kWh ... @	0.793 ¢ per kWh	0.793 ¢ per kWh
Over 700 kWh ... @	0.793 ¢ per kWh	0.793 ¢ per kWh

- (b) Transmission Surcharge – This charge is applicable to all customers taking Basic Generation Service from the Company and includes surcharges related to Reliability Must Run and Transmission Enhancement Charges.

All kWh ... @	0.606 ¢ per kWh	0.606 ¢ per kWh
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(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, and Securitization Charges

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, and Securitization Charges as described in General Information Section Nos. 33, 34, and 35, respectively, shall be assessed on all kWh delivered hereunder.

* Definition of Summer Billing Months - June through September

(Continued)

ISSUED:

EFFECTIVE:

ISSUED BY: Timothy Cawley, President
Mahwah, New Jersey 07430

**SERVICE CLASSIFICATION NO. 7
 LARGE GENERAL TIME-OF-DAY SERVICE (Continued)**

RATE– MONTHLY (Continued)

(3) Transmission Charges (Continued)

(a) (Continued)

		<u>Primary</u>	<u>High Voltage Distribution</u>
<u>Demand Charge</u>			
Period I	All kW @	\$1.91 per kW	\$1.91 per kW
Period II	All kW @	0.50 per kW	0.50 per kW
Period III	All kW @	1.74 per kW	1.74 per kW
Period IV	All kW @	0.50 per kW	0.50 per kW
<u>Usage Charge</u>			
Period I	All kWh @	0.366 ¢ per kWh	0.366 ¢ per kWh
Period II	All kWh @	0.366 ¢ per kWh	0.366 ¢ per kWh
Period III	All kWh @	0.366 ¢ per kWh	0.366 ¢ per kWh
Period IV	All kWh @	0.366 ¢ per kWh	0.366 ¢ per kWh

(b) Transmission Surcharge – This charge is applicable to all customers taking Basic Generation Service from the Company and includes surcharges related to Reliability Must Run and Transmission Enhancement Charges.

		<u>Primary</u>	<u>High Voltage Distribution</u>
All Periods	All kWh @	0.320 ¢ per kWh	0.320 ¢ per kWh

(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, and Securitization Charges

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, and Securitization Charges as described in General Information Section Nos. 33, 34, and 35 respectively, shall be assessed on all kWh delivered hereunder.

(Continued)

ISSUED:

EFFECTIVE:

ISSUED BY: Timothy Cawley, President
 Mahwah, New Jersey 07430

DRAFT

Revised Leaf No. 127
Superseding Leaf No. 127

SERVICE CLASSIFICATION NO. 7
LARGE GENERAL TIME-OF-DAY SERVICE (Continued)

SPECIAL PROVISIONS

(A) Space Heating

Customers who take service under this classification for 10 kW or more of permanently installed space heating equipment may elect to have the electricity for this service billed separately. All monthly use shall be billed at a Distribution Charge of 3.289 ¢ per kWh during the billing months of October through May and 5.316 ¢ per kWh during the summer billing months and a Transmission Charge of 0.551 ¢ per kWh and a Transmission Surcharge of 0.320 ¢ per kWh during all billing months.

When this option is requested it shall apply for at least 12 months and shall be subject to a minimum charge of \$26.93 per year per kW of space heating capacity. This provision applies for both heating and cooling where the two services are combined by the manufacturer in a single self-contained unit.

All usage under this Special Provision shall also be subject to Parts (4), (5), and (6) of RATE – MONTHLY. This Special Provision is not available to those customers taking high voltage distribution service.

This special provision is closed to new customers effective August 1, 2014.

(B) Budget Billing Plan

Any condominium association or cooperative housing corporation who takes service hereunder and any other customer taking service under Special Provision B of this Service Classification may, upon request, be billed monthly in accordance with the budget billing plan provided for in General Information Section 8 of this tariff.

(Continued)

ISSUED:

EFFECTIVE:

ISSUED BY: Timothy Cawley, President
Mahwah, New Jersey 07430

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (PSE&G Project) effective May 1, 2017
To reflect FERC-approved PSE&G Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period May 2017 to April 2018

2017/2018 Average Monthly PSE&G-TEC Costs Allocated to RECO	\$	670,113	(1)
2017 RECO Zone Transmission Peak Load (MW)		430.3	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	1,557.40	
SUT		6.875%	

Rate Class	Col. 1 BGS-Eligible Transmission Obligation (MW)	Col. 2 Transmission Obligation (Pct)	Col.3=Col.2 x \$670,113 x 12 Allocated Cost Recovery (1)	Col. 4 BGS Eligible Sales May 2017 - April 2018 (kWh)	Col. 5 = Col. 3/Col. 4 Transmission Enhancement Charge (\$/kWh)	Col. 6 = Col. 5 x 1.07 Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1	260.0	60.43%	\$ 4,859,258	695,547,000	\$ 0.00699	\$ 0.00747
SC2 Secondary	118.7	27.59%	\$ 2,218,264	536,829,000	\$ 0.00413	\$ 0.00441
SC2 Primary	15.4	3.57%	\$ 287,205	77,639,000	\$ 0.00370	\$ 0.00395
SC3	0.1	0.01%	\$ 959	266,000	\$ 0.00361	\$ 0.00386
SC4	0.0	0.00%	\$ -	6,466,000	\$ -	\$ -
SC5	3.9	0.90%	\$ 72,139	14,941,000	\$ 0.00483	\$ 0.00516
SC6	0.0	0.00%	\$ -	5,574,000	\$ -	\$ -
SC7	<u>32.3</u>	7.51%	\$ 603,526	<u>236,953,000</u>	\$ 0.00255	\$ 0.00273
Total	430.3 (2)	100.00%	\$ 8,041,351	1,574,215,000		

(1) Attachment 4 - Cost Allocation of PSE&G Project Schedule 12 Charges to RECO Zone for May 2017 through April 2018

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment AdjustmentLine No.

1	BGS-RSCP Eligible Sales May - Apr @ cust (RECO Eastern Division)	1,285,889	MWH
2	BGS-RSCP Eligible Sales May - Apr @ trans node (RECO Eastern Division)	1,196,924	MWH
3	BGS-RSCP Eligible Transmission Obligation	398	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 7,437,835.16	= Line 3 x \$1557.4 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ 6.21	= Line 4/Line 2

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (VEPCo) effective May 1, 2017
 To reflect FERC-approved VEPCo Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period May 2017 to April 2018

2017/2018 Average Monthly VEPCo-TEC Costs Allocated to RECO	\$	33,118	(1)
2017 RECO Zone Transmission Peak Load (MW)		430.3	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	76.97	
SUT		6.875%	

	Col. 1	Col. 2	Col.3=Col.2 x \$33,118 x 12	Col. 4	Col. 5 = Col. 3/Col. 4	Col. 6 = Col. 5 x 1.07
Rate Class	BGS-Eligible Transmission Obligation (MW)	Transmission Obligation (Pct)	Allocated Cost Recovery (1)	BGS Eligible Sales May 2017 - April 2018 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1	260.0	60.43%	\$ 240,153	695,547,000	\$ 0.00035	\$ 0.00037
SC2 Secondary	118.7	27.59%	\$ 109,630	536,829,000	\$ 0.00020	\$ 0.00021
SC2 Primary	15.4	3.57%	\$ 14,194	77,639,000	\$ 0.00018	\$ 0.00019
SC3	0.1	0.01%	\$ 47	266,000	\$ 0.00018	\$ 0.00019
SC4	0.0	0.00%	\$ -	6,466,000	\$ -	\$ -
SC5	3.9	0.90%	\$ 3,565	14,941,000	\$ 0.00024	\$ 0.00026
SC6	0.0	0.00%	\$ -	5,574,000	\$ -	\$ -
SC7	<u>32.3</u>	7.51%	\$ 29,827	<u>236,953,000</u>	\$ 0.00013	\$ 0.00014
Total	430.3 (2)	100.00%	\$ 397,416	1,574,215,000		

(1) Attachment 4 - Cost Allocation of VEPCo Schedule 12 Charges to RECO Zone for May 2017 through April 2018

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales May - Apr @ cust (RECO Eastern Division)	1,285,889	MWH
2	BGS-RSCP Eligible Sales May - Apr @ trans node (RECO Eastern Division)	1,196,924	MWH
3	BGS-RSCP Eligible Transmission Obligation	398	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 367,593.54	= Line 3 x \$76.97 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ 0.31	= Line 4/Line 2

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (PATH) effective May 1, 2017
To reflect FERC-approved PATH Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period May 2017 to April 2018

2017/2018 Average Monthly PATH-TEC Costs Allocated to RECO	\$	4,460	(1)
2017 RECO Zone Transmission Peak Load (MW)		430.3	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	10.37	
SUT		6.875%	

Rate Class	Col. 1 BGS-Eligible Transmission Obligation (MW)	Col. 2 Transmission Obligation (Pct)	Col.3=Col.2 x \$4,460 x 12 Allocated Cost Recovery (1)	Col. 4 BGS Eligible Sales May 2017 - April 2018 (kWh)	Col. 5 = Col. 3/Col. 4 Transmission Enhancement Charge (\$/kWh)	Col. 6 = Col. 5 x 1.07 Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1	260.0	60.43%	\$ 32,344	695,547,000	\$ 0.00005	\$ 0.00005
SC2 Secondary	118.7	27.59%	\$ 14,765	536,829,000	\$ 0.00003	\$ 0.00003
SC2 Primary	15.4	3.57%	\$ 1,912	77,639,000	\$ 0.00002	\$ 0.00002
SC3	0.1	0.01%	\$ 6	266,000	\$ 0.00002	\$ 0.00002
SC4	0.0	0.00%	\$ -	6,466,000	\$ -	\$ -
SC5	3.9	0.90%	\$ 480	14,941,000	\$ 0.00003	\$ 0.00003
SC6	0.0	0.00%	\$ -	5,574,000	\$ -	\$ -
SC7	<u>32.3</u>	7.51%	\$ 4,017	<u>236,953,000</u>	\$ 0.00002	\$ 0.00002
Total	430.3 (2)	100.00%	\$ 53,524	1,574,215,000		

(1) Attachment 4 - Cost Allocation of PATH Project Schedule 12 Charges to RECO Zone for May 2017 through April 2018

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment AdjustmentLine No.

1	BGS-RSCP Eligible Sales May - Apr @ cust (RECO Eastern Division)	1,285,889	MWH
2	BGS-RSCP Eligible Sales May - Apr @ trans node (RECO Eastern Division)	1,196,924	MWH
3	BGS-RSCP Eligible Transmission Obligation	398	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 49,525.07	= Line 3 x \$10.37 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ 0.04	= Line 4/Line 2

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (TrAILCo) effective May 1, 2017

To reflect FERC-approved TrailCo Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period May 2017 to April 2018

2017/2018 Average Monthly TrAILCo-TEC Costs Allocated to RECO	\$	42,142	(1)
2017 RECO Zone Transmission Peak Load (MW)		430.3	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	97.94	
SUT		6.875%	

	Col. 1	Col. 2	Col.3=Col.2 x \$42,142 x 12	Col. 4	Col. 5 = Col. 3/Col. 4	Col. 6 = Col. 5 x 1.07
Rate Class	BGS-Eligible Transmission Obligation (MW)	Transmission Obligation (Pct)	Allocated Cost Recovery (1)	BGS Eligible Sales May 2017- April 2018 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1	260.0	60.43%	\$ 305,588	695,547,000	\$ 0.00044	\$ 0.00047
SC2 Secondary	118.7	27.59%	\$ 139,502	536,829,000	\$ 0.00026	\$ 0.00028
SC2 Primary	15.4	3.57%	\$ 18,062	77,639,000	\$ 0.00023	\$ 0.00025
SC3	0.1	0.01%	\$ 60	266,000	\$ 0.00023	\$ 0.00025
SC4	0.0	0.00%	\$ -	6,466,000	\$ -	\$ -
SC5	3.9	0.90%	\$ 4,537	14,941,000	\$ 0.00030	\$ 0.00032
SC6	0.0	0.00%	\$ -	5,574,000	\$ -	\$ -
SC7	32.3	7.51%	\$ 37,954	236,953,000	\$ 0.00016	\$ 0.00017
Total	430.3 (2)	100.00%	\$ 505,703	1,574,215,000		

(1) Attachment 2 - Cost Allocation of TrAILCo Schedule 12 Charges to RECO Zone for May 2017 through April 2018

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment AdjustmentLine No.

1	BGS-RSCP Eligible Sales May - Apr @ cust (RECO Eastern Division)	1,285,889	MWH
2	BGS-RSCP Eligible Sales May - Apr @ trans node (RECO Eastern Division)	1,196,924	MWH
3	BGS-RSCP Eligible Transmission Obligation	398	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 467,742.12	= Line 3 x \$97.94 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ 0.39	= Line 4/Line 2

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (Delmarva) effective May 1, 2017

To reflect FERC-approved Delmarva Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period May 2017 to April 2018

2017/2018 Average Monthly Delmarva-TEC Costs Allocated to RECO	\$	135	(1)
2017 RECO Zone Transmission Peak Load (MW)		430.3	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	0.31	
SUT		6.875%	

	Col. 1	Col. 2	Col.3=Col.2 x \$135 x 12	Col. 4	Col. 5 = Col. 3/Col. 4	Col. 6 = Col. 5 x 1.07
Rate Class	BGS-Eligible Transmission Obligation (MW)	Transmission Obligation (Pct)	Allocated Cost Recovery (1)	BGS Eligible Sales May 2017- April 2018 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1	260.0	60.43%	\$ 975	695,547,000	\$ -	\$ -
SC2 Secondary	118.7	27.59%	\$ 445	536,829,000	\$ -	\$ -
SC2 Primary	15.4	3.57%	\$ 58	77,639,000	\$ -	\$ -
SC3	0.1	0.01%	\$ -	266,000	\$ -	\$ -
SC4	0.0	0.00%	\$ -	6,466,000	\$ -	\$ -
SC5	3.9	0.90%	\$ 14	14,941,000	\$ -	\$ -
SC6	0.0	0.00%	\$ -	5,574,000	\$ -	\$ -
SC7	32.3	7.51%	\$ 121	236,953,000	\$ -	\$ -
Total	430.3 (2)	100.00%	\$ 1,613	1,574,215,000		

(1) Attachment 2 - Cost Allocation of Delmarva Schedule 12 Charges to RECO Zone for May 2017 through April 2018

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment AdjustmentLine No.

1	BGS-RSCP Eligible Sales May - Apr @ cust (RECO Eastern Division)	1,285,889	MWH
2	BGS-RSCP Eligible Sales May - Apr @ trans node (RECO Eastern Division)	1,196,924	MWH
3	BGS-RSCP Eligible Transmission Obligation	398	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 1,480.50	= Line 3 x \$0.31 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ -	= Line 4/Line 2

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (ACE) effective May 1, 2017

To reflect FERC-approved ACE Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period May 2017 to April 2018

2017/2018 Average Monthly ACE-TEC Costs Allocated to RECO	\$	3,403	(1)
2017 RECO Zone Transmission Peak Load (MW)		430.3	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	7.91	
SUT		6.875%	

	Col. 1	Col. 2	Col.3=Col.2 x \$3,403 x 12	Col. 4	Col. 5 = Col. 3/Col. 4	Col. 6 = Col. 5 x 1.07
Rate Class	BGS-Eligible Transmission Obligation (MW)	Transmission Obligation (Pct)	Allocated Cost Recovery (1)	BGS Eligible Sales May 2017- April 2018 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1	260.0	60.43%	\$ 24,679	695,547,000	\$ 0.00004	\$ 0.00004
SC2 Secondary	118.7	27.59%	\$ 11,266	536,829,000	\$ 0.00002	\$ 0.00002
SC2 Primary	15.4	3.57%	\$ 1,459	77,639,000	\$ 0.00002	\$ 0.00002
SC3	0.1	0.01%	\$ 5	266,000	\$ 0.00002	\$ 0.00002
SC4	0.0	0.00%	\$ -	6,466,000	\$ -	\$ -
SC5	3.9	0.90%	\$ 366	14,941,000	\$ 0.00002	\$ 0.00002
SC6	0.0	0.00%	\$ -	5,574,000	\$ -	\$ -
SC7	32.3	7.51%	\$ 3,065	236,953,000	\$ 0.00001	\$ 0.00001
Total	430.3 (2)	100.00%	\$ 40,840	1,574,215,000		

(1) Attachment 2 - Cost Allocation of ACE Schedule 12 Charges to RECO Zone for May 2017 through April 2018

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment AdjustmentLine No.

1	BGS-RSCP Eligible Sales May - Apr @ cust (RECO Eastern Division)	1,285,889	MWH
2	BGS-RSCP Eligible Sales May - Apr @ trans node (RECO Eastern Division)	1,196,924	MWH
3	BGS-RSCP Eligible Transmission Obligation	398	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 37,776.60	= Line 3 x \$7.91 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ 0.03	= Line 4/Line 2

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (PEPCO) effective May 1, 2017

To reflect FERC-approved PEPCO Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period May 2017 to April 2018

2017/2018 Average Monthly PEPCO-TEC Costs Allocated to RECO	\$	868	(1)
2017 RECO Zone Transmission Peak Load (MW)		430.3	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	2.02	
SUT		6.875%	

	Col. 1	Col. 2	Col.3=Col.2 x \$868 x 12	Col. 4	Col. 5 = Col. 3/Col. 4	Col. 6 = Col. 5 x 1.07
Rate Class	BGS-Eligible Transmission Obligation (MW)	Transmission Obligation (Pct)	Allocated Cost Recovery (1)	BGS Eligible Sales May 2017- April 2018 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1	260.0	60.43%	\$ 6,292	695,547,000	\$ 0.00001	\$ 0.00001
SC2 Secondary	118.7	27.59%	\$ 2,872	536,829,000	\$ 0.00001	\$ 0.00001
SC2 Primary	15.4	3.57%	\$ 372	77,639,000	\$ -	\$ -
SC3	0.1	0.01%	\$ 1	266,000	\$ -	\$ -
SC4	0.0	0.00%	\$ -	6,466,000	\$ -	\$ -
SC5	3.9	0.90%	\$ 93	14,941,000	\$ 0.00001	\$ 0.00001
SC6	0.0	0.00%	\$ -	5,574,000	\$ -	\$ -
SC7	32.3	7.51%	\$ 781	236,953,000	\$ -	\$ -
Total	430.3 (2)	100.00%	\$ 10,411	1,574,215,000		

(1) Attachment 2 - Cost Allocation of PEPCO Schedule 12 Charges to RECO Zone for May 2017 through April 2018

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment AdjustmentLine No.

1	BGS-RSCP Eligible Sales May - Apr @ cust (RECO Eastern Division)	1,285,889	MWH
2	BGS-RSCP Eligible Sales May - Apr @ trans node (RECO Eastern Division)	1,196,924	MWH
3	BGS-RSCP Eligible Transmission Obligation	398	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 9,647.12	= Line 3 x \$2.02 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ 0.01	= Line 4/Line 2

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (PPL) effective May 1, 2017

To reflect FERC-approved PPL Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period May 2017 to April 2018

2017/2018 Average Monthly PPL-TEC Costs Allocated to RECO	\$	21,604	(1)
2017 RECO Zone Transmission Peak Load (MW)		430.3	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	50.21	
SUT		6.875%	

	Col. 1	Col. 2	Col.3=Col.2 x \$21,604 x 12	Col. 4	Col. 5 = Col. 3/Col. 4	Col. 6 = Col. 5 x 1.07
Rate Class	BGS-Eligible Transmission Obligation (MW)	Transmission Obligation (Pct)	Allocated Cost Recovery (1)	BGS Eligible Sales May 2017- April 2018 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1	260.0	60.43%	\$ 156,661	695,547,000	\$ 0.00023	\$ 0.00025
SC2 Secondary	118.7	27.59%	\$ 71,516	536,829,000	\$ 0.00013	\$ 0.00014
SC2 Primary	15.4	3.57%	\$ 9,259	77,639,000	\$ 0.00012	\$ 0.00013
SC3	0.1	0.01%	\$ 31	266,000	\$ 0.00012	\$ 0.00013
SC4	0.0	0.00%	\$ -	6,466,000	\$ -	\$ -
SC5	3.9	0.90%	\$ 2,326	14,941,000	\$ 0.00016	\$ 0.00017
SC6	0.0	0.00%	\$ -	5,574,000	\$ -	\$ -
SC7	32.3	7.51%	\$ 19,457	236,953,000	\$ 0.00008	\$ 0.00009
Total	430.3 (2)	100.00%	\$ 259,250	1,574,215,000		

(1) Attachment 2 - Cost Allocation of PPL Schedule 12 Charges to RECO Zone for May 2017 through April 2018

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment AdjustmentLine No.

1	BGS-RSCP Eligible Sales May - Apr @ cust (RECO Eastern Division)	1,285,889	MWH
2	BGS-RSCP Eligible Sales May - Apr @ trans node (RECO Eastern Division)	1,196,924	MWH
3	BGS-RSCP Eligible Transmission Obligation	398	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 239,793.05	= Line 3 x \$50.21 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ 0.20	= Line 4/Line 2

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (AEP East) effective May 1, 2017
To reflect FERC-approved AEP-East Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period May 2017 to April 2018

2017/2018 Average Monthly AEP-East-TEC Costs Allocated to RECO	\$	11,082	(1)
2017 RECO Zone Transmission Peak Load (MW)		430.3	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	25.76	
SUT		6.875%	

	Col. 1	Col. 2	Col.3=Col.2 x \$11,082 x 12	Col. 4	Col. 5 = Col. 3/Col. 4	Col. 6 = Col. 5 x 1.07
Rate Class	BGS-Eligible Transmission Obligation (MW)	Transmission Obligation (Pct)	Allocated Cost Recovery (1)	BGS Eligible Sales May 2017- April 2018 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1	260.0	60.43%	\$ 80,362	695,547,000	\$ 0.00012	\$ 0.00013
SC2 Secondary	118.7	27.59%	\$ 36,685	536,829,000	\$ 0.00007	\$ 0.00007
SC2 Primary	15.4	3.57%	\$ 4,750	77,639,000	\$ 0.00006	\$ 0.00006
SC3	0.1	0.01%	\$ 16	266,000	\$ 0.00006	\$ 0.00006
SC4	0.0	0.00%	\$ -	6,466,000	\$ -	\$ -
SC5	3.9	0.90%	\$ 1,193	14,941,000	\$ 0.00008	\$ 0.00009
SC6	0.0	0.00%	\$ -	5,574,000	\$ -	\$ -
SC7	32.3	7.51%	\$ 9,981	236,953,000	\$ 0.00004	\$ 0.00004
Total	430.3 (2)	100.00%	\$ 132,987	1,574,215,000		

(1) Attachment 2 - Cost Allocation of AEP East Schedule 12 Charges to RECO Zone for May 2017 through April 2018

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment AdjustmentLine No.

1	BGS-RSCP Eligible Sales May - Apr @ cust (RECO Eastern Division)	1,285,889	MWH
2	BGS-RSCP Eligible Sales May - Apr @ trans node (RECO Eastern Division)	1,196,924	MWH
3	BGS-RSCP Eligible Transmission Obligation	398	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 123,024.68	= Line 3 x \$25.76 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ 0.10	= Line 4/Line 2

Attachment 6a (PSE&G Transmission Enhancement Charges)
Attachment 6b (VEPCo Transmission Enhancement Charges)
Attachment 6c (PATH Transmission Enhancement Charges)
Attachment 6d (TrailCo Transmission Enhancement Charges)
Attachment 6e (Delmarva Transmission Enhancement Charges)
Attachment 6f (ACE Transmission Enhancement Charges)
Attachment 6g (PEPCO Transmission Enhancement Charges)
Attachment 6h (PPL Transmission Enhancement Charges)
Attachment 6i (AEP East Transmission Enhancement Charges)

Attachment 6a -PJM Schedule 12 - Transmission Enhancement Charges for January 2017 - December 2017
Calculation of costs and monthly PJM charges for PSE&G Projects

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Required Transmission Enhancement <i>per PJM website</i>	PJM Upgrade ID <i>per PJM spreadsheet</i>	Jan - Dec 2017 Annual Revenue Requirement <i>per PJM website</i>	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share	JCP&L Zone Share	PSE&G Zone Share ^{1,2}	RE Zone Share	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
			<i>per PJM Open Access Transmission Tariff</i>								
Replace all derated Branchburg 500/230 kV transformers	b0130	\$ 1,919,572.00	1.36%	47.76%	50.88%	0.00%	\$26,106	\$916,788	\$976,678	\$0	\$1,919,572
Reconductor Kittatinny - Newtown 230 kV with 1590 ACSS	b0134	\$ 893,162.00	0.00%	51.11%	45.96%	2.93%	\$0	\$456,495	\$410,497	\$26,170	\$893,162
Build new Essex - Aldene 230 kV cable connected through phase angle regulator at Essex	b0145	\$ 8,050,714.00	0.00%	73.45%	21.78%	4.77%	\$0	\$5,913,249	\$1,753,446	\$384,019	\$8,050,714
Install 230-138kV transformer at Metuchen substation	b0161	\$ 3,950,752.00	0.00%	0.00%	99.80%	0.20%	\$0	\$0	\$3,942,850	\$7,902	\$3,950,752
Build a new 230 kV section from Branchburg - Flagtown and move the Flagtown - Somerville 230 kV circuit to the new section	b0169	\$ 1,804,191.00	1.72%	25.94%	59.59%	0.00%	\$31,032	\$468,007	\$1,075,117	\$0	\$1,574,157
Reconductor the Flagtown-Somerville-Bridgewater 230 kV circuit with 1590 ACSS	b0170	\$ 590,969.00	0.00%	42.95%	38.36%	0.79%	\$0	\$253,821	\$226,696	\$4,669	\$485,186
Replace wave trap at Branchburg 500kV substation	b0172.2	\$ (9,800.00)	1.70%	3.78%	6.22%	0.25%	-\$167	-\$370	-\$610	-\$25	-\$1,171
Replace both 230/138 kV transformers at Roseland	b0274	\$ 2,871,418.00	0.00%	0.00%	96.77%	0.00%	\$0	\$0	\$2,778,671	\$0	\$2,778,671
Branchburg 400 MVAR Capacitor	b0290	\$ 9,916,964.00	1.70%	3.78%	6.22%	0.25%	\$168,588	\$374,861	\$616,835	\$24,792	\$1,185,077
Install 4th 500/230 kV transformer at New Freedom	b0411	\$ 2,115,192.00	47.01%	7.04%	22.31%	0.00%	\$994,352	\$148,910	\$471,899	\$0	\$1,615,161
Saddle Brook - Athenia Upgrade Cable	b0472	\$ 1,855,386.00	0.00%	0.00%	94.41%	3.53%	\$0	\$0	\$1,751,670	\$65,495	\$1,817,165
Build new 500 kV transmission facilities from Pennsylvania - New Jersey border at Bushkill to Roseland (500kV and above elements of the project)	b0489	\$ 87,011,502.00	1.70%	3.78%	6.22%	0.25%	\$1,479,196	\$3,289,035	\$5,412,115	\$217,529	\$10,397,874
Build new 500 kV transmission facilities from Pennsylvania - New Jersey border at Bushkill to Roseland (Below 500 kV elements of the project) (In Service)	b0489.4	\$ 8,150,258.00	5.09%	32.73%	40.71%	1.52%	\$414,848	\$2,667,579	\$3,317,970	\$123,884	\$6,524,282
Susquehanna Roseland Breakers (In-Service)	b0489.5-.15	\$ 217,407.00	1.70%	3.78%	6.22%	0.25%	\$3,696	\$8,218	\$13,523	\$544	\$25,980
Loop the 5021 circuit into New Freedom 500 kV substation	b0498	\$ 2,630,700.00	1.70%	3.78%	6.22%	0.25%	\$44,722	\$99,440	\$163,630	\$6,577	\$314,369
Branchburg-Somerville-Flagtown Reconductor	b0664-b0665	\$ 2,687,154.00	0.00%	36.35%	43.24%	1.61%	\$0	\$976,780	\$1,161,925	\$43,263	\$2,181,969
Somerville -Bridgewater Reconductor	b0668	\$ 648,940.00	0.00%	39.41%	38.76%	1.45%	\$0	\$255,747	\$251,529	\$9,410	\$516,686
Reconductor Hudson - South Waterfront 230kV circuit	b0813	\$ 731,433.00	0.00%	9.92%	83.73%	3.12%	\$0	\$72,558	\$612,429	\$22,821	\$707,808
New Essex-Kearny 138 kV circuit and Kearny 138 kV bus tie	b0814	\$ 5,250,301.00	0.00%	23.49%	67.03%	2.50%	\$0	\$1,233,296	\$3,519,277	\$131,258	\$4,883,830
Reconductor South Mahwah 345 kV J-3410 Circuit	b1017	\$ 2,992,247.00	0.00%	29.01%	64.85%	2.53%	\$0	\$868,051	\$1,940,472	\$75,704	\$2,884,227
Reconductor South Mahwah 345 kV K-3411 Circuit	b1018	\$ 2,615,692.00	0.00%	29.18%	64.68%	2.53%	\$0	\$763,259	\$1,691,830	\$66,177	\$2,521,266

Attachment 6a -PJM Schedule 12 - Transmission Enhancement Charges for January 2017 - December 2017
Calculation of costs and monthly PJM charges for PSE&G Projects

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Required Transmission Enhancement <i>per PJM website</i>	PJM Upgrade ID <i>per PJM spreadsheet</i>	Jan - Dec 2017 Annual Revenue Requirement <i>per PJM website</i>	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share	JCP&L Zone Share	PSE&G Zone Share ^{1,2}	RE Zone Share	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
West Orange Conversion (North Central Reliability)	b1154	\$ 14,007,445.00	0.00%	0.00%	96.18%	3.82%	\$0	\$0	\$13,472,361	\$535,084	\$14,007,445
Branchburg-Middlesex Sw Rack	b1155	\$ 11,318,767.00	0.00%	4.61%	91.75%	3.64%	\$0	\$521,795	\$10,384,969	\$412,003	\$11,318,767
Conversion	b1156	\$ 37,706,462.00	0.00%	0.00%	96.18%	3.82%	\$0	\$0	\$36,266,075	\$1,440,387	\$37,706,462
230kV Lawrence Switching Station Upgrade	b1228	\$ 937,673.00	0.00%	0.00%	95.83%	3.81%	\$0	\$0	\$898,572	\$35,725	\$934,297
Ridge Rd 69kV Breaker Station	b1255	\$ (1,023,113.00)	0.00%	0.00%	96.18%	3.82%	\$0	\$0	-\$984,030	-\$39,083	-\$1,023,113
Northeast Grid Reliability Project	b1304.1-b1304.4	\$ 84,277,037.00	0.23%	1.17%	70.16%	2.78%	\$193,837	\$986,041	\$59,128,769	\$2,342,902	\$62,651,549
Mickleton-Gloucester-Camden	b1398-b1398.7	\$ 53,399,686.00	0.00%	12.82%	31.46%	1.25%	\$0	\$6,845,840	\$16,799,541	\$667,496	\$24,312,877
Aldene-Springfield Rd. Conv	b1399	\$ 14,879,831.00	0.00%	0.00%	96.18%	3.82%	\$0	\$0	\$14,311,421	\$568,410	\$14,879,831
Replace Salem 500 kV breakers	b1410-b1415	\$ 1,904,937.00	1.70%	3.78%	6.22%	0.25%	\$32,384	\$72,007	\$118,487	\$4,762	\$227,640
Uprate Eagle Point-Gloucester 230 kV Circuit	b1588	\$ 2,126,917.00	0.00%	10.31%	54.17%	2.16%	\$0	\$219,285	\$1,152,151	\$45,941	\$1,417,377
Upgrade Camden Richmon 230kV	b1590	\$ 3,128,164.00	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
New Cox's Corner-Lumberton 230kV Circuit	b1787	\$ 5,329,019.00	4.96%	44.20%	48.08%	1.92%	\$264,319	\$2,355,426	\$2,562,192	\$102,317	\$5,284,255
Build Mickleton-Gloucester Corridor Ultimate Design	b2139	\$ 2,796,331.00	0.00%	0.00%	61.11%	2.44%	\$0	\$0	\$1,708,838	\$68,230	\$1,777,068
Convert Bergen Marion 138 kV to double circuit 345kV and Sub	b2436.10	\$ 25,825,267.40	0.85%	1.89%	6.94%	0.28%	\$219,515	\$488,098	\$1,792,274	\$72,311	\$2,572,197
Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades	b2436.21	\$ 5,929,235.00	0.85%	1.89%	3.11%	0.13%	\$50,398	\$112,063	\$184,399	\$7,412	\$354,272
Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	b2436.22	\$ 4,703,680.00	0.85%	1.89%	3.11%	0.13%	\$39,981	\$88,900	\$146,284	\$5,880	\$281,045
Construct New Bayway-Bayonne 345kV Circuit	b2436.33	\$ 9,562,390.00	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Construct New North Ave-Bayonne 345kV Circuit	b2436.34	\$ 6,958,816.00	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Construct North Ave-Airport 345kV Circuit and Substation Upgrades	b2436.50	\$ 4,491,168.00	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (CWIP)	b2436.60	\$ 3,635,129.00	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (CWIP)	b2436.70	\$ 6,726,495.00	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation	b2436.81	\$ 2,892,542.00	0.85%	1.89%	47.56%	1.88%	\$24,587	\$54,669	\$1,375,693	\$54,380	\$1,509,328
Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades	b2436.83	\$ 2,892,542.00	0.85%	1.89%	47.56%	1.88%	\$24,587	\$54,669	\$1,375,693	\$54,380	\$1,509,328
Convert Bayway-Linden "W" to 138kV circuit to 345kV	b2436.84	\$ 3,996,678.00	0.85%	1.89%	3.11%	0.13%	\$33,972	\$75,537	\$124,297	\$4,996	\$238,802

Attachment 6a -PJM Schedule 12 - Transmission Enhancement Charges for January 2017 - December 2017
Calculation of costs and monthly PJM charges for PSE&G Projects

Required Transmission Enhancement <i>per PJM website</i>	PJM Upgrade ID <i>per PJM spreadsheet</i>	Jan - Dec 2017 Annual Revenue Requirement <i>per PJM website</i>	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share	JCP&L Zone Share	PSE&G Zone Share ^{1,2}	RE Zone Share	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
Convert Bayway-Linden "M" to 138kV circuit to 345kV	b2436.85	\$ 3,996,678.00	0.85%	1.89%	3.11%	0.13%	\$33,972	\$75,537	\$124,297	\$4,996	\$238,802
Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades	b2436.90	\$ 4,491,521.00	0.85%	1.89%	48.41%	1.91%	\$38,178	\$84,890	\$2,174,345	\$85,788	\$2,383,201
New Bergen 345/230 kV transformer and any associated substation upgrades	b2437.10	\$ 4,204,465.00	0.00%	0.00%	5.38%	0.22%	\$0	\$0	\$226,200	\$9,250	\$235,450
New Bergen 345/138 kV transformer #1 and any associated substation upgrades	b2437.11	\$ 4,233,079.00	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
New Bayway 345/138 kV transformer #1 and any associated substation upgrades	b2437.20	\$ 1,729,664.00	0.00%	0.00%	92.71%	3.66%	\$0	\$0	\$1,603,571	\$63,306	\$1,666,877
New Bayway 345/138 kV transformer #2 and any associated substation upgrades	b2437.21	\$ 1,729,765.00	0.00%	0.00%	93.23%	3.68%	\$0	\$0	\$1,612,660	\$63,655	\$1,676,315
New Linden 345/230 kV transformer and any associated substation upgrades	b2437.30	\$ 6,508,436.00	0.00%	0.00%	85.78%	3.39%	\$0	\$0	\$5,582,936	\$220,636	\$5,803,572
New Bayonne 245/69 kV Transformer & Sub Upgrades	b2437.33	\$ 942,989.00	0.00%	0.00%	100.00%	0.00%	\$0	\$0	\$942,989	\$0	\$942,989
Totals		\$ 483,133,849.40					\$4,118,103	\$30,800,481	\$205,173,436	\$8,041,350	\$248,133,370

Notes on calculations >>>

	(k)	(l)	(m)	(n)	(o)	= (a) * (b)	= (a) * (c)	= (a) * (d)	= (a) * (e)	= (f) + (g) +
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 2017	2017 Trans. Peak Load ²	Rate in \$/MW-mo. ¹	2017 Impact (12 months)						
PSE&G	\$ 17,097,786.30	9,800.3	\$ 1,744.62	\$ 205,173,436						
JCP&L	\$ 2,566,706.76	5,954.8	\$ 431.03	\$ 30,800,481						
ACE	\$ 343,175.25	2,673.4	\$ 128.37	\$ 4,118,103						
RE	\$ 670,112.52	402.0	\$ 1,666.95	\$ 8,041,350						
Total Impact on NJ Zones	\$ 20,677,780.83	18,830.5		\$ 248,133,370						

Notes on calculations >>>

Notes:

1) Uncompressed rate - assumes implementation on January 1, 2017

2) Data on PJM website

= (k) / (l) = (k) *12

Attachment 6b - PJM Schedule 12 - Transmission Enhancement Charges for January 2017 - December 2017
Calculation of costs and monthly PJM charges for VEPCO Projects

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Required Transmission Enhancement <i>per PJM website</i>	PJM Upgrade ID <i>per PJM spreadsheet</i>	Jan - Dec 2017 Annual Revenue Requirement <i>per PJM website</i>	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share <i>per PJM Open Access Transmission Tariff</i>	JCP&L Zone Share	PSE&G Zone Share ¹	RE Zone Share	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
Upgrade Mt Storm - Doubs 500kV	b0217	\$257,269.86	1.70%	3.78%	6.22%	0.25%	\$4,374	\$9,725	\$16,002	\$643	\$30,744
Loudoun 150 MVA capacitor @ 500 kV	b0222	\$193,191.82	1.70%	3.78%	6.22%	0.25%	\$3,284	\$7,303	\$12,017	\$483	\$23,086
500 kV breakers and bus work at Suffolk	b0231	\$2,562,425.60	1.70%	3.78%	6.22%	0.25%	\$43,561	\$96,860	\$159,383	\$6,406	\$306,210
Meadowbrook-Loudon 500kV circuit	b0328.1	\$29,313,065.77	1.70%	3.78%	6.22%	0.25%	\$498,322	\$1,108,034	\$1,823,273	\$73,283	\$3,502,911
Upgrade Mt. Storm 500 KV Substation	b0328.3	\$1,765,302.78	1.70%	3.78%	6.22%	0.25%	\$30,010	\$66,728	\$109,802	\$4,413	\$210,954
Upgrade Loudoun 500 KV Substation	b0328.4	\$401,744.41	1.70%	3.78%	6.22%	0.25%	\$6,830	\$15,186	\$24,989	\$1,004	\$48,008
Carson – Suffolk 500 kV, Suffolk 500/230 kV transformer & build Suffolk – Trascher 230 kV circuit	b0329.2B	\$21,016,738.19	1.70%	3.78%	6.22%	0.25%	\$357,285	\$794,433	\$1,307,241	\$52,542	\$2,511,500
500/230 KV transformer at Bristers, new 230 Bristers - Gainsville circuit	b0227	\$2,406,162.74	0.71%	0.00%	0.00%	0.00%	\$17,084	\$0	\$0	\$0	\$17,084
Rebuild Mt Storm-Doubs 500 KV circuit	b1507	\$45,770,515.53	1.70%	3.78%	6.22%	0.25%	\$778,099	\$1,730,125	\$2,846,926	\$114,426	\$5,469,577
Replace wave traps on Dooms-Lexington 500KV circuit	b0457	\$13,218.97	1.70%	3.78%	6.22%	0.25%	\$225	\$500	\$822	\$33	\$1,580
Morrisville H1T573	b1647	\$2,017.40	1.70%	3.78%	6.22%	0.25%	\$34	\$76	\$125	\$5	\$241
Morrisville H2T545	b1648	\$2,017.40	1.70%	3.78%	6.22%	0.25%	\$34	\$76	\$125	\$5	\$241
Morrisville H1T580	b1649	\$106,444.44	1.70%	3.78%	6.22%	0.25%	\$1,810	\$4,024	\$6,621	\$266	\$12,720
Morrisville H2T569	b1650	\$106,444.44	1.70%	3.78%	6.22%	0.25%	\$1,810	\$4,024	\$6,621	\$266	\$12,720
Replace wave traps on North Anna-Ladysmith 500KV circuit	b0784	\$9,172.02	1.70%	3.78%	6.22%	0.25%	\$156	\$347	\$570	\$23	\$1,096
Reconductor the Dickerson-Pleasant View 230 KV circuit	b0467.2	\$669,256.15	1.75%	0.71%	0.00%	0.00%	\$11,712	\$4,752	\$0	\$0	\$16,464
Install 500/230 kV transformer and two 230 kV breakers at Brambleton	b1188.6	\$2,139,595.35	0.22%	0.00%	0.00%	0.00%	\$4,707	\$0	\$0	\$0	\$4,707
New Brambleton 500 kV line, 3 ring bus, to Loudon to Pleasant View 500 kV	b1188	(\$1,246,939.87)	1.70%	3.78%	6.22%	0.25%	-\$21,198	-\$47,134	-\$77,560	-\$3,117	-\$149,009
500 kV breaker at Brambleton	b1698.1	(\$41,629.02)	1.70%	3.78%	6.22%	0.25%	-\$708	-\$1,574	-\$2,589	-\$104	-\$4,975
Install 2 500kV breakers at Chancellor 500 kV	b0756.1	\$545,534.16	1.70%	3.78%	6.22%	0.25%	\$9,274	\$20,621	\$33,932	\$1,364	\$65,191
Wreck and Rebuild 7 miles of Cloverdale - Lexington 500 kV Line	b1797	\$2,478,862.29	1.70%	3.78%	6.22%	0.25%	\$42,141	\$93,701	\$154,185	\$6,197	\$296,224
Build 450 MVAR SVC and 300 MVAR switched shunt at Loudoun 500 kV	b1798	\$16,768,028.13	1.70%	3.78%	6.22%	0.25%	\$285,056	\$633,831	\$1,042,971	\$41,920	\$2,003,779
Build 150 MVAR Switched Shunt at Pleasant View 500 kV Line	b1799	\$5,017,975.43	1.70%	3.78%	6.22%	0.25%	\$85,306	\$189,679	\$312,118	\$12,545	\$599,648
Install 250 MVAR SVC at Mt. Storm 500 kV Substation	b1805	\$4,789,262.74	1.70%	3.78%	6.22%	0.25%	\$81,417	\$181,034	\$297,892	\$11,973	\$572,317
At Yadkin 500 kV, install six 500 kV Breakers	b1906.1	\$807,495.96	1.70%	3.78%	6.22%	0.25%	\$13,727	\$30,523	\$50,226	\$2,019	\$96,496
Rebuild Lexington-Dooms 500 kV Line	b1908	\$18,923,694.79	1.70%	3.78%	6.22%	0.25%	\$321,703	\$715,316	\$1,177,054	\$47,309	\$2,261,382

Attachment 6b - PJM Schedule 12 - Transmission Enhancement Charges for January 2017 - December 2017
Calculation of costs and monthly PJM charges for VEPCO Projects

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Required Transmission Enhancement <i>per PJM website</i>	PJM Upgrade ID <i>per PJM spreadsheet</i>	Jan - Dec 2017 Annual Revenue Requirement <i>per PJM website</i>	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share	JCP&L Zone Share	PSE&G Zone Share ¹	RE Zone Share	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
Surry 500 kV Station Work	b1905.2	\$251,044.53	1.70%	3.78%	6.22%	0.25%	\$4,268	\$9,489	\$15,615	\$628	\$30,000
Mt Storm - Replace MOD with breaker on 500kV side of Transformer	b0837	\$90,393.19	1.70%	3.78%	6.22%	0.25%	\$1,537	\$3,417	\$5,622	\$226	\$10,802
Uprate Section between Possum and Dumfries Substation	b1328	\$126,184.57	0.66%	0.00%	0.00%	0.00%	\$833	\$0	\$0	\$0	\$833
Rebuild Loudoun - Brambleto 500kV	b1694	\$5,784,363.48	1.70%	3.78%	6.22%	0.25%	\$98,334	\$218,649	\$359,787	\$14,461	\$691,231
R/P Midlothian 500kV 3 breaker Ring Bus	b2471	\$1,264,768.00	0.85%	1.89%	3.11%	0.13%	\$10,751	\$23,904	\$39,334	\$1,581	\$75,570
Surry to Skiffes Creek 500kV Line	b1905.1	\$2,646,968.70	1.70%	3.78%	6.22%	0.25%	\$44,998	\$100,055	\$164,641	\$6,617	\$316,313
Install Breaker and half scheme with minimum of eight 230kV Breakers	b1696	\$892,380.23	0.46%	0.64%	0.00%	0.00%	\$4,105	\$5,711	\$0	\$0	\$9,816
Build a second Loudon - Brambleton 500kV line	b2373	\$6,354,909.16	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Rebuild Elmont-Cunningham 500kV Line	b2582	\$3,609,847.68	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Totals		\$175,797,727.02					\$2,740,880	\$6,019,416	\$9,887,748	\$397,418	\$19,045,461

Notes on calculations >>>

= (a) * (b) = (a) * (c) = (a) * (d) = (a) * (e) = (f) + (g) + (h) + (i)

	(k)	(l)	(m)	(n)
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 2017	2017 Trans. Peak Load ²	Rate in \$/MW-mo. ¹	2017 Impact (12 months)
PSE&G	\$ 823,978.99	9,800.3	\$ 84.08	\$ 9,887,748
JCP&L	\$ 501,617.99	5,954.8	\$ 84.24	\$ 6,019,416
ACE	\$ 228,406.64	2,673.4	\$ 85.44	\$ 2,740,880
RE	\$ 33,118.13	402.0	\$ 82.38	\$ 397,418
Total Impact on NJ Zones	\$ 1,587,121.74	18,830.5		\$19,045,461

Notes on calculations >>>

= (k) / (l) = (k) * 12

Attachment 6c Potomac-Allegheny Transmission Highline (PATH)
PJM Schedule 12 - Transmission Enhancement Charges for January 2017 - December 2017
Calculation of costs and monthly PJM charges for PATH Project

Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	(a) Jan - Dec 2017 Annual Revenue Requirement per PJM website	(b) Responsible Customers - Schedule 12 Appendix				(f) Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share	(c) JCP&L Zone Share	(d) PSE&G Zone Share ¹	(e) RE Zone Share	ACE Zone Charges	(g) JCP&L Zone Charges	(h) PSE&G Zone Charges	(i) RE Zone Charges	(j) Total NJ Zones Charges
Amos-Bedington 765 kV Circuit (AEP)	b0490	\$ 10,911,443.68	1.70%	3.78%	6.22%	0.25%	\$185,495	\$412,453	\$678,692	\$27,279	\$1,303,918
Amos-Bedington 765 kV Circuit (APS)	b0491	Included above	1.70%	3.78%	6.22%	0.25%	\$0	\$0	\$0	\$0	\$0
Bedington-Kempton 500 kV Circuit	b0492 & b560	\$ 10,498,177.93	1.70%	3.78%	6.22%	0.25%	\$178,469	\$396,831	\$652,987	\$26,245	\$1,254,532
Totals		\$ 21,409,621.61					\$363,964	\$809,284	\$1,331,678	\$53,524	\$2,558,450

Notes on calculations >>>

= (a) * (b) = (a) * (c) = (a) * (d) = (a) * (e) = (f) + (g) + (h) + (i)

Zonal Cost Allocation for New Jersey Zones	(k)	Average Monthly Impact on Zone Customers in 2017	(l)	(m)	(n)
			2017 Trans. Peak Load ²	Rate in \$/MW-mo. ¹	2017 Impact (12 months)
PSE&G	\$	110,973.21	9,800.3	\$11.32	\$ 1,331,678
JCP&L	\$	67,440.31	5,954.8	\$11.33	\$ 809,284
ACE	\$	30,330.30	2,673.4	\$11.35	\$ 363,964
RE	\$	4,460.34	402.0	\$11.10	\$ 53,524
Total Impact on NJ Zones	\$	213,204.15	18,830.5		\$ 2,558,450

Notes on calculations >>>

= (k) / (l) = (k) *12

Notes:

- 1) Uncompressed rate - assumes implementation on January 1, 2017
- 2) Data on PJM website

Attachment 6d PJM Schedule 12 - Transmission Enhancement Charges for June 2016 - May 2017
 Calculation of costs and monthly PJM charges for Allegheny TrAILCo Projects

Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2016-May 2017 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share ¹	JCP&L Zone Share ¹	PSE&G Zone Share ¹	RE Zone Share ¹	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
502 Junction-Mt Storm-Meadowbrook (>=500kV) - CWIP ¹	b0328.1; b0328.2; b0347.1; b0347.2; b0347.3; b0347.4	\$ 150,249,644.72	1.70%	3.78%	6.22%	0.25%	\$2,554,244	\$5,679,437	\$9,345,528	\$375,624	\$17,954,833
Wylie Ridge ²	b0218	\$ 3,128,659.78	11.83%	15.56%	0.00%	0.00%	\$370,120	\$486,819	\$0	\$0	\$856,940
Black Oak	b0216	\$ 6,101,786.28	1.70%	3.78%	6.22%	0.25%	\$103,730	\$230,648	\$379,531	\$15,254	\$729,163
Meadowbrook 200 MVAR capacitor Replace Kammer	b0559	\$ 840,910.69	1.70%	3.78%	6.22%	0.25%	\$14,295	\$31,786	\$52,305	\$2,102	\$100,489
765/500 kV TXfmr	b0495	\$ 5,104,447.83	1.70%	3.78%	6.22%	0.25%	\$86,776	\$192,948	\$317,497	\$12,761	\$609,982
Doubs TXfmr 2	b0343	\$ 670,933.66	1.85%	0.00%	0.00%	0.00%	\$12,412	\$0	\$0	\$0	\$12,412
Doubs TXfmr 3	b0344	\$ 613,562.24	1.86%	0.00%	0.00%	0.00%	\$11,412	\$0	\$0	\$0	\$11,412
Doubs TXfmr 4	b0345	\$ 761,394.53	1.85%	0.00%	0.00%	0.00%	\$14,086	\$0	\$0	\$0	\$14,086
New Osage 138KV Ckt	b0674-b1023.3	\$ 1,696,979.66	0.00%	0.00%	0.25%	0.01%	\$0	\$0	\$4,242	\$170	\$4,412
Cap at Grover 230	b0556	\$ 137,049.05	8.58%	18.16%	26.13%	0.97%	\$11,759	\$24,888	\$35,811	\$1,329	\$73,787
Upgrade transformer 500/230	b1153	\$ 4,349,294.92	3.74%	12.57%	20.52%	0.72%	\$162,664	\$546,706	\$892,475	\$31,315	\$1,633,160
Build a 300 MVAR Switched Shunt at Doubs 500kV	b1803	\$ 722,916.02	1.70%	3.78%	6.22%	0.25%	\$12,290	\$27,326	\$44,965	\$1,807	\$86,388
Install 500 MVAR svc at Hunterstown 500kV Sub	b1800	\$ 15,878,281.63	1.70%	3.78%	6.22%	0.25%	\$269,931	\$600,199	\$987,629	\$39,696	\$1,897,455
Build 250 MVAR svc at Altoona 230kV	b1801	\$ 5,621,056.55	6.47%	8.14%	8.18%	0.33%	\$363,682	\$457,554	\$459,802	\$18,549	\$1,299,588
Convert Moshannon sub to 4 breaker 230 kv ring bus	b1964	\$ 1,036,835.00	0.00%	5.48%	0.00%	0.00%	\$0	\$56,819	\$0	\$0	\$56,819
Build a 100 MVAR Fast Switched Shunt and 200 MVAR Switched Shunt at Mansfield 345 kV	b1802	\$ 1,652,175.95	6.47%	8.14%	8.18%	0.33%	\$106,896	\$134,487	\$135,148	\$5,452	\$381,983
Install 100 MVAR capacitor at Johnstown 230 kV substation	b0555	\$ 218,972.92	8.58%	18.16%	26.13%	0.97%	\$18,788	\$39,765	\$57,218	\$2,124	\$117,895
Install 300 MVAR capacitor at Conemaugh 500 kV substation	b0376	\$ (192,551.15)	1.70%	3.78%	6.22%	0.25%	-\$3,273	-\$7,278	-\$11,977	-\$481	-\$23,010
							\$4,109,812	\$8,502,105	\$12,700,175	\$505,703	\$25,817,794

Notes on calculations >>>

= (a) * (b) = (a) * (c) = (a) * (d) = (a) * (e) = (f) + (g) + (h) + (i)

	(k)	(l)	(m)	(n)	(o)	(p)
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 16/17	2017TX Peak Load per PJM website	Rate in \$/MW-mo.	2016 Impact (7 months)	2017 Impact (5 months)	2016-2017 Impact (12 months)
PSE&G	\$ 1,058,347.90	9,800.3	\$ 107.99	\$ 7,408,435	\$ 5,291,740	\$ 12,700,175
JCP&L	\$ 708,508.72	5,954.8	\$ 118.98	\$ 4,959,561	\$ 3,542,544	\$ 8,502,105
ACE	\$ 342,484.30	2,673.4	\$ 128.11	\$ 2,397,390	\$ 1,712,422	\$ 4,109,812
RE	\$ 42,141.94	402.0	\$ 104.83	\$ 294,994	\$ 210,710	\$ 505,703
Total Impact on NJ Zones	\$ 2,151,482.86			\$ 15,060,380	\$ 10,757,414	\$ 25,817,794

Notes on calculations >>>

= (k) * (l) = (k) * 7 = (k) * 5 = (n) * (o)

Notes:

1) 2017 allocation share percentages are from PJM OATT

Attachment 6e PJM Schedule 12 - Transmission Enhancement Charges for June 2016 - May 2017
 Calculation of costs and monthly PJM charges for Delmarva Projects

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2016-May 2017 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share ¹	JCP&L Zone Share ¹	PSE&G Zone Share ¹	RE Zone Share ¹	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
			per PJM Open Access Transmission Tariff								
Replace line trap-Keeney	b0272.1	\$ 26,651	1.70%	3.78%	6.22%	0.25%	\$453	\$1,007	\$1,658	\$67	\$3,185
Add two breakers-Keeney	b0751	\$ 618,956	1.70%	3.78%	6.22%	0.25%	\$10,522	\$23,397	\$38,499	\$1,547	\$73,965
Totals							\$10,975	\$24,404	\$40,157	\$1,614	\$77,150

Notes on calculations >>>

= (a) * (b) = (a) * (c) = (a) * (d) = (a) * (e) = (f) + (g) + (h) + (i)

	(k)	(l)	(m)	(n)	(o)	(p)
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 16/17	2017TX Peak Load per PJM website	Rate in \$/MW-mo.	2016 Impact (7 months)	2017 Impact (5 months)	2016-2017 Impact (12 months)
PSE&G	\$ 3,346.40	9,800.3	\$ 0.34	\$ 23,425	\$ 16,732	\$ 40,157
JCP&L	\$ 2,033.66	5,954.8	\$ 0.34	\$ 14,236	\$ 10,168	\$ 24,404
ACE	\$ 914.61	2,673.4	\$ 0.34	\$ 6,402	\$ 4,573	\$ 10,975
RE	\$ 134.50	402.0	\$ 0.33	\$ 942	\$ 673	\$ 1,614
Total Impact on NJ Zones	\$ 6,429.17			\$ 45,004	\$ 32,146	\$ 77,150

Notes on calculations >>>

= (k) * (l) = (k) * 7 = (k) * 5 = (n) * (o)

Notes:

1) 2017 allocation share percentages are from PJM OATT

Attachment 6f PJM Schedule 12 - Transmission Enhancement Charges for June 2016 - May 2017
 Calculation of costs and monthly PJM charges for ACE Projects

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Required Transmission Enhancement <i>per PJM website</i>	PJM Upgrade ID <i>per PJM spreadsheet</i>	June 2016 - May 2017 Annual Revenue Requirement <i>per PJM website</i>	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share ¹ <i>per PJM Open Access Transmission Tariff</i>	JCP&L Zone Share ¹	PSE&G Zone Share ¹	RE Zone Share ¹	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
Upgrade AE portion of Delco Tap	b0265	\$ 596,772	89.87%	9.48%	0.00%	0.00%	\$536,319	\$56,574	\$0	\$0	\$592,893
Replace Monroe 230/69 kV TXfms	b0276	\$ 910,589	91.28%	0.00%	8.29%	0.23%	\$831,186	\$0	\$75,488	\$2,094	\$908,768
Reconductor Union - Corson 138 kV	b0211	\$ 1,553,511	65.23%	25.87%	6.35%	0.00%	\$1,013,355	\$401,893	\$98,648	\$0	\$1,513,896
New 500/230 Kv Sub on Salem-East Windsor (>500 kV portion)	b0210.A	\$ 3,119,930	1.70%	3.78%	6.22%	0.25%	\$53,039	\$117,933	\$194,060	\$7,800	\$372,832
New 500/230kV Sub on Salem-East Windsor (< 500kV) portion ²	b0210.B	\$ 2,224,625	65.23%	25.87%	6.35%	0.00%	\$1,451,123	\$575,510	\$141,264	\$0	\$2,167,897
Reconductor the existing Mickleton - Goucestr 230 kV circuit (AE portion)	b1398.5	\$ 552,221	0.00%	12.82%	31.46%	1.25%	\$0	\$70,795	\$173,729	\$6,903	\$251,426
	b1398.5.3.1	\$ 1,728,089	0.00%	12.82%	31.46%	1.25%	\$0	\$221,541	\$543,657	\$21,601	\$786,799
Upgrade the Mill T2 138/69 kV Transformer	b1600	\$ 1,061,960	88.83%	4.74%	5.78%	0.23%	\$943,339	\$50,337	\$61,381	\$2,443	\$1,057,500
							\$4,828,361	\$1,494,584	\$1,288,226	\$40,841	\$7,652,011

Notes on calculations >>>

= (a) * (b) = (a) * (c) = (a) * (d) = (a) * (e) = (f) + (g) + (h) + (i)

	(k)	(l)	(m)	(n)	(o)	(p)
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 16/17	2017TX Peak Load per PJM website	Rate in \$/MW-mo.	2016 Impact (7 months)	2017 Impact (5 months)	2016-2017 Impact (12 months)
PSE&G	\$ 107,352.16	9,800.3	\$ 10.95	\$ 751,465	\$ 536,761	\$ 1,288,226
JCP&L	\$ 124,548.65	5,954.8	\$ 20.92	\$ 871,841	\$ 622,743	\$ 1,494,584
ACE	\$ 402,363.39	2,673.4	\$ 150.51	\$ 2,816,544	\$ 2,011,817	\$ 4,828,361
RE	\$ 3,403.38	402.0	\$ 8.47	\$ 23,824	\$ 17,017	\$ 40,841
Total Impact on NJ Zones	\$ 637,667.57			\$ 4,463,673	\$ 3,188,338	\$ 7,652,011

Notes on calculations >>>

= (k) * (l) = (k) * 7 = (k) * 5 = (n) * (o)

Notes:

1) 2017 allocation share percentages are from PJM OATT

Attachment 6g PJM Schedule 12 - Transmission Enhancement Charges for June 2016 to May 2017
 Calculation of costs and monthly PJM charges for PEPCO Projects

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2016-May 2017 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share ¹	JCP&L Zone Share ¹	PSE&G Zone Share ¹	RE Zone Share ¹	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
Reconductor 23035 for Dickerson-Quince	b0367.1-2	\$ 3,226,776	1.78%	2.67%	3.81%	0.00%	\$57,437	\$86,155	\$122,940	\$0	\$266,532
Replace 230 1A breaker	b0512.7	\$ 306,326	1.70%	3.78%	6.22%	0.25%	\$5,208	\$11,579	\$19,053	\$766	\$36,606
Replace 230 1B breaker	b0512.8	\$ 306,326	1.70%	3.78%	6.22%	0.25%	\$5,208	\$11,579	\$19,053	\$766	\$36,606
Replace 230 2A breaker	b0512.9	\$ 306,326	1.70%	3.78%	6.22%	0.25%	\$5,208	\$11,579	\$19,053	\$766	\$36,606
Replace 230 3A breaker	b0512.12	\$ 309,126	1.70%	3.78%	6.22%	0.25%	\$5,255	\$11,685	\$19,228	\$773	\$36,941
Ritchie-Benning 230 lines	b0526	\$ 9,177,493	0.77%	1.39%	2.10%	0.08%	\$70,667	\$127,567	\$192,727	\$7,342	\$398,303
Totals							\$148,981	\$260,144	\$392,056	\$10,412	\$811,593

Notes on calculations >>>

= (a) * (b) = (a) * (c) = (a) * (d) = (a) * (e) = (f) + (g) + (h) + (i)

	(k)	(l)	(m)	(n)	(o)	(p)
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 16/17	2017TX Peak Load per PJM website	Rate in \$/MW-mo.	2016 Impact (7 months)	2017 Impact (5 months)	2016-2017 Impact (12 months)
PSE&G	\$ 32,671.30	9,800.3	\$ 3.33	\$ 228,699	\$ 163,356	\$ 392,056
JCP&L	\$ 21,678.70	5,954.8	\$ 3.64	\$ 151,751	\$ 108,394	\$ 260,144
ACE	\$ 12,415.09	2,673.4	\$ 4.64	\$ 86,906	\$ 62,075	\$ 148,981
RE	\$ 867.69	402.0	\$ 2.16	\$ 6,074	\$ 4,338	\$ 10,412
Total Impact on NJ Zones	\$ 67,632.78			\$ 473,429	\$ 338,164	\$ 811,593

Notes on calculations >>>

= (k) * (l) = (k) * 7 = (k) * 5 = (n) * (o)

Notes:

1) 2017 allocation share percentages are from PJM OATT

Attachment 6h PJM Schedule 12 - Transmission Enhancement Charges for June 2016 - May 2017
 Calculation of costs and monthly PJM charges for PPL Projects

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2016- May 2017 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share ¹	JCP&L Zone Share ¹	PSE&G Zone Share ¹	RE Zone Share ¹	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
			per PJM Open Access Transmission Tariff								
New 500 KV Susquehanna-Roseland Line	b0487	\$ 99,027,162.96	1.70%	3.78%	6.22%	0.25%	\$1,683,462	\$3,743,227	\$6,159,490	\$247,568	\$11,833,746
Replace wave trap at Albutus 500 kV Sub	b0171.2	\$ 11,164.26	1.70%	3.78%	6.22%	0.25%	\$190	\$422	\$694	\$28	\$1,334
Replace wavetrap at Hosensack 500KV Sub	b0172.1	\$ 8,006.72	1.70%	3.78%	6.22%	0.25%	\$136	\$303	\$498	\$20	\$957
Replace wavetraps at Juniata 500KV Sub	b0284.2	\$ 16,193.17	1.70%	3.78%	6.22%	0.25%	\$275	\$612	\$1,007	\$40	\$1,935
New S-R additions < 500kV ²	b0487.1	\$ 2,381,889.12	0.00%	0.00%	5.13%	0.19%	\$0	\$0	\$122,191	\$4,526	\$126,717
New substation and transformers Middletown	b0468	\$ 3,212,792.18	0.00%	4.55%	5.93%	0.22%	\$0	\$146,182	\$190,519	\$7,068	\$343,769
Totals							\$1,684,063	\$3,890,746	\$6,474,399	\$259,250	\$12,308,457

Notes on calculations >>>

= (a) * (b) = (a) * (c) = (a) * (d) = (a) * (e) = (f) + (g) + (h) + (i)

	(k)	(l)	(m)	(n)	(o)	(p)
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 16/17	2017 Peak Load per PJM website	Rate in \$/MW-mo.	2016 Impact (7 months)	2017 Impact (5 months)	2016-2017 Impact (12 months)
PSE&G	\$ 539,533.22	9,800.3	\$ 55.05	\$ 3,776,733	\$ 2,697,666	\$ 6,474,399
JCP&L	\$ 324,228.80	5,954.8	\$ 54.45	\$ 2,269,602	\$ 1,621,144	\$ 3,890,746
ACE	\$ 140,338.58	2,673.4	\$ 52.49	\$ 982,370	\$ 701,693	\$ 1,684,063
RE	\$ 21,604.17	402.0	\$ 53.74	\$ 151,229	\$ 108,021	\$ 259,250
Total Impact on NJ Zones	\$ 1,025,704.77			\$ 7,179,933	\$ 5,128,524	\$ 12,308,457

Notes on calculations >>>

= (k) * (l) = (k) * 7 = (k) * 5 = (n) * (o)

Notes:

1) 2017 allocation share percentages are from PJM OATT

Attachment 6i PJM Schedule 12 - Transmission Enhancement Charges for January 2017 - December 2017
 Calculation of costs and monthly PJM charges for AEP -East Projects

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	Jan - Dec 2017 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share ¹ per PJM Open Access	JCP&L Zone Share ¹	PSE&G Zone Share ¹	RE Zone Share ¹	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
New 765 kV circuit breakers at Hanging Rock Sub	b0504	\$ 1,015,979	1.70%	3.78%	6.22%	0.25%	\$17,272	\$38,404	\$63,194	\$2,540	\$121,409
Rockport Reactor Bank	b1465.2	\$ 2,088,008	1.70%	3.78%	6.22%	0.25%	\$35,496	\$78,927	\$129,874	\$5,220	\$249,517
Transpose Rockport- Sullivan 765KV line	b1465.3	\$ 3,272,061	1.70%	3.78%	6.22%	0.25%	\$55,625	\$123,684	\$203,522	\$8,180	\$391,011
Switching changes Sullivan 765KV station	b1465.4	\$ 1,792,913	1.70%	3.78%	6.22%	0.25%	\$30,480	\$67,772	\$111,519	\$4,482	\$214,253
765kV circuit breaker at Wyoming station	b1661	\$ 543,030	1.70%	3.78%	6.22%	0.25%	\$9,232	\$20,527	\$33,776	\$1,358	\$64,892
Term Tsfmr #2 @ SW Lima - new bay position	b1957	\$ 2,211,145	0.00%	0.00%	4.52%	0.18%	\$0	\$0	\$99,944	\$3,980	\$103,924
Reconductor/Rebuild Sporn-Waterford-Muskingham River 345 kV Line	b2017	\$ 15,729,072	0.00%	1.39%	2.00%	0.08%	\$0	\$218,634	\$314,581	\$12,583	\$545,799
Add four 765 kV Breakers at Kammar	b1962	\$ 3,341,409	1.70%	3.78%	6.22%	0.25%	\$56,804	\$126,305	\$207,836	\$8,354	\$399,298
Ft. Wayne Relocate	b1659.14	\$ 8,076,213	1.70%	3.78%	6.22%	0.25%	\$137,296	\$305,281	\$502,340	\$20,191	\$965,107
Sorenson 765/500kV Transformer	b1659	\$ 5,667,478	0.00%	0.00%	0.92%	0.04%	\$0	\$0	\$52,141	\$2,267	\$54,408
Sorenson Work 765kV Baker Station 765/500kV Transformer	b1659.13	\$ 7,261,914	1.70%	3.78%	6.22%	0.25%	\$123,453	\$274,500	\$451,691	\$18,155	\$867,799
b1495	\$ 5,097,838	0.41%	0.90%	1.48%	0.06%	\$20,901	\$45,881	\$75,448	\$3,059	\$145,288	
Cloverdale 765/500kV Transformer	b1660	\$ 8,889,735	1.70%	3.78%	6.22%	0.25%	\$151,125	\$336,032	\$552,942	\$22,224	\$1,062,323
Cloverdale 500kV Station	b1660.1	\$ 3,514,742	0.85%	1.89%	3.11%	0.13%	\$29,875	\$66,429	\$109,308	\$4,393	\$210,006
Jacksons-Ferry 765kV Breakers	b1663.2	\$ 1,141,031	1.70%	3.78%	6.22%	0.25%	\$19,398	\$43,131	\$70,972	\$2,853	\$136,353
Reconductor Cloverdale-Lexington 500kV	b1797.1	\$ 3,438,786	0.85%	1.89%	3.11%	0.13%	\$29,230	\$64,993	\$106,946	\$4,298	\$205,467
Reconductor West Bellaire	b1970	\$ 2,778,419	0.00%	1.68%	2.87%	0.11%	\$0	\$46,677	\$79,741	\$3,056	\$129,474
Add a 3rd 2250 MVA 765/345 kV transformer at Sullivan station	b1465.1	\$ 3,283,917	0.71%	1.58%	2.62%	0.10%	\$23,316	\$51,886	\$86,039	\$3,284	\$164,524
Replace existing 150 MVAR reactor at Amos 765 kV sub	b2230	\$ 781,130	0.85%	1.89%	3.11%	0.13%	\$6,640	\$14,763	\$24,293	\$976	\$46,673
Install a 300 MVAR shunt reactor at AEP's Wyoming 765 kV station	b2423	\$ 1,226,646	0.85%	1.89%	3.11%	0.13%	\$10,426	\$23,184	\$38,149	\$1,533	\$73,292
Totals							\$756,567	\$1,947,009	\$3,314,256	\$132,987	\$6,150,819

Notes on calculations >>>

= (a) * (b) = (a) * (c) = (a) * (d) = (a) * (e) = (f) + (g) + (h) + (i)

	(k)	(l)	(m)	(n)	(o)	(p)
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 2017	2017TX Peak Load per PJM website	Rate in \$/MW-mo.	2017 Impact (7 months)	2017 Impact (5 months)	2017 Impact (12 months)
PSE&G	\$ 276,188.04	9,800.3	\$ 28.18	\$ 1,933,316	\$ 1,380,940	\$ 3,314,256
JCP&L	\$ 162,250.77	5,954.8	\$ 27.25	\$ 1,135,755	\$ 811,254	\$ 1,947,009
ACE	\$ 63,047.25	2,673.4	\$ 23.58	\$ 441,331	\$ 315,236	\$ 756,567
RE	\$ 11,082.21	402.0	\$ 27.57	\$ 77,575	\$ 55,411	\$ 132,987
Total Impact on NJ Zones	\$ 512,568.27			\$ 3,587,978	\$ 2,562,841	\$ 6,150,819

Notes on calculations >>>

= (k) * (l) = (k) * 7 = (k) * 5 = (n) * (o)

Notes:

1) 2017 allocation share percentages are from PJM OATT

Attachment 7a (PSE&G OATT)
Attachment 7b (VEPCo OATT)
Attachment 7c (PATH OATT)
Attachment 7d (TrailCo OATT)
Attachment 7e (Delmarva OATT)
Attachment 7f (ACE OATT)
Attachment 7g (PEPCO OATT)
Attachment 7h (PPL OATT)
Attachment 7i (AEP OATT)

SCHEDULE 12 – APPENDIX

(12) Public Service Electric and Gas Company

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0025	Convert the Bergen-Leonia 138 Kv circuit to 230 kV circuit.	PSEG (100%)
b0090	Add 150 MVAR capacitor at Camden 230 kV	PSEG (100%)
b0121	Add 150 MVAR capacitor at Aldene 230 kV	PSEG (100%)
b0122	Bypass the Essex 138 kV series reactors	PSEG (100%)
b0125	Add Special Protection Scheme at Bridgewater to automatically open 230 kV breaker for outage of Branchburg – Deans 500 kV and Deans 500/230 kV #1 transformer	PSEG (100%)
b0126	Replace wavetrap on Branchburg – Flagtown 230 kV	PSEG (100%)
b0127	Replace terminal equipment to increase Brunswick – Adams – Bennetts Lane 230 kV to conductor rating	PSEG (100%)
b0129	Replace wavetrap on Flagtown – Somerville 230 kV	PSEG (100%)
b0130	Replace all derated Branchburg 500/230 kV transformers	AEC (1.36%) / JCPL (47.76%) / PSEG (50.88%)
b0134	Upgrade or Retension PSEG portion of Kittatinny – Newton 230 kV circuit	JCPL (51.11%) / PSEG (45.96%) / RE (2.93%)

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)
b0145	Build new Essex – Aldene 230 kV cable connected through a phase angle regulator at Essex	PSEG (21.78%) / JCPL (73.45%) / RE (4.77%)
b0157	Add 100MVAR capacitor at West Orange 138kV substation	PSEG (100%)
b0158	Close the Sunnymeade "C" and "F" bus tie	PSEG (100%)
b0159	Make the Bayonne reactor permanent installation	PSEG (100%)
b0160	Relocate the X-2250 circuit from Hudson 1-6 bus to Hudson 7-12 bus	PSEG (100%)
b0161	Install 230/138kV transformer at Metuchen substation	PSEG (99.80%) / RE (0.20%)
b0162	Upgrade the Edison – Meadow Rd 138kV “Q” circuit	PSEG (100%)
b0163	Upgrade the Edison – Meadow Rd 138kV “R” circuit	PSEG (100%)
b0169	Build a new 230 kV section from Branchburg – Flagtown and move the Flagtown – Somerville 230 kV circuit to the new section	AEC (1.72%) / JCPL (25.94%) / Neptune* (10.62%) / PSEG (59.59%) / ECP** (2.13%)
b0170	Reconductor the Flagtown-Somerville-Bridgewater 230 kV circuit with 1590 ACSS	JCLP (42.95%) / Neptune* (17.90%) / PSEG (38.36%) RE (0.79%)

* Neptune Regional Transmission System, LLC

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

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b0172.2	Replace wave trap at Branchburg 500kV substation		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0184	Replace Hudson 230kV circuit breakers #1-2		PSEG (100%)
b0185	Replace Deans 230kV circuit breakers #9-10		PSEG (100%)
b0186	Replace Essex 230kV circuit breaker #5-6		PSEG (100%)
b1082	Install 230/138 kV transformer at Bergen substation		PENELEC (16.52%) / PSEG (80.29%) / RE (3.19%)

* Neptune Regional Transmission System, LLC

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

*** Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0201	Branchburg substation: replace wave trap on Branchburg – Readington 230 kV circuit	PSEG (100%)
b0213.1	Replace New Freedom 230 kV breaker BS2-6	PSEG (100%)
b0213.3	Replace New Freedom 230 kV breaker BS2-8	PSEG (100%)
b0274	Replace both 230/138 kV transformers at Roseland	PSEG (96.77%) / ECP** (3.23%)
b0275	Upgrade the two 138 kV circuits between Roseland and West Orange	PSEG (100%)
b0278	Install 228 MVAR capacitor at Roseland 230 kV substation	PSEG (100%)
b0290	Install 400 MVAR capacitor in the Branchburg 500 kV vicinity	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0358	Reconductor the PSEG portion of Buckingham – Pleasant Valley 230 kV, replace wave trap and metering transformer	PSEG (100%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0368	Reconductor Tosco – G22_MTX 230 kV circuit with 1033 bundled ACSS	PSEG (100%)
b0371	Make the Metuchen 138 kV bus solid and upgrade 6 breakers at the Metuchen substation	PSEG (100%)
b0372	Make the Athenia 138 kV bus solid and upgrade 2 breakers at the Athenia substation	PSEG (100%)
b0395	Replace Hudson 230 kV breaker BS4-5	PSEG (100%)
b0396	Replace Hudson 230 kV breaker BS1-6	PSEG (100%)
b0397	Replace Hudson 230 kV breaker BS3-4	PSEG (100%)
b0398	Replace Hudson 230 kV breaker BS5-6	PSEG (100%)
b0401.1	Replace Roseland 230 kV breaker BS6-7	PSEG (100%)
b0401.2	Replace Roseland 138 kV breaker O-1315	PSEG (100%)
b0401.3	Replace Roseland 138 kV breaker S-1319	PSEG (100%)
b0401.4	Replace Roseland 138 kV breaker T-1320	PSEG (100%)
b0401.5	Replace Roseland 138 kV breaker G-1307	PSEG (100%)
b0401.6	Replace Roseland 138 kV breaker P-1316	PSEG (100%)
b0401.7	Replace Roseland 138 kV breaker 220-4	PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0401.8	Replace W. Orange 138 kV breaker 132-4	PSEG (100%)
b0411	Install 4 th 500/230 kV transformer at New Freedom	AEC (47.01%) / JCPL (7.04%) / Neptune* (0.28%) / PECO (23.36%) / PSEG (22.31%)
b0423	Reconductor Readington (2555) – Branchburg (4962) 230 kV circuit w/1590 ACSS	PSEG (100%)
b0424	Replace Readington wavetrap on Readington (2555) – Roseland (5017) 230 kV circuit	PSEG (100%)
b0425	Reconductor Linden (4996) – Tosco (5190) 230 kV circuit w/1590 ACSS (Assumes operating at 220 degrees C)	PSEG (100%)
b0426	Reconductor Tosco (5190) – G22_MTX5 (90220) 230 kV circuit w/1590 ACSS (Assumes operation at 220 degrees C)	PSEG (100%)
b0427	Reconductor Athenia (4954) – Saddle Brook (5020) 230 kV circuit river section	PSEG (100%)
b0428	Replace Roseland wavetrap on Roseland (5019) – West Caldwell “G” (5089) 138 kV circuit	PSEG (100%)
b0429	Reconductor Kittatinny (2553) – Newton (2535) 230 kV circuit w/1590 ACSS	JCPL (41.91%) / Neptune* (3.59%) / PSEG (50.59%) / RE (2.23%) / ECP** (1.68%)
b0439	Spare Deans 500/230 kV transformer	PSEG (100%)
b0446.1	Upgrade Bayway 138 kV breaker #2-3	PSEG (100%)
b0446.2	Upgrade Bayway 138 kV breaker #3-4	PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0446.3	Upgrade Bayway 138 kV breaker #6-7	PSEG (100%)
b0446.4	Upgrade the breaker associated with TX 132-5 on Linden 138 kV	PSEG (100%)
b0470	Install 138 kV breaker at Roseland and close the Roseland 138 kV buses	PSEG (100%)
b0471	Replace the wave traps at both Lawrence and Pleasant Valley on the Lawrence – Pleasant Vallen 230 kV circuit	PSEG (100%)
b0472	Increase the emergency rating of Saddle Brook – Athenia 230 kV by 25% by adding forced cooling	ECP (2.06%) / PSEG (94.41%) / RE (3.53%)
b0473	Move the 150 MVAR mobile capacitor from Aldene 230 kV to Lawrence 230 kV substation	PSEG (100%)
b0489	Build new 500 kV transmission facilities from Pennsylvania – New Jersey border at Bushkill to Roseland	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)†

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† Cost allocations associated with Regional Facilities and Necessary Lower Voltage Facilities associated with the project

†† Cost allocations associated with below 500 kV elements of the project

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b489.1	Replace Athenia 230 kV breaker 31H	PSEG (100%)
b489.2	Replace Bergen 230 kV breaker 10H	PSEG (100%)
b489.3	Replace Saddlebrook 230 kV breaker 21P	PSEG (100%)
b0489.4	Install two Roseland 500/230 kV transformers as part of the Susquehanna – Roseland 500 kV project	AEC (5.09%) / ComEd (0.29%) / Dayton (0.03%) / DPL (1.76%) / JCPL (32.73%) / Neptune* (6.32%) / PECO (10.04%) / PENELEC (0.56%) / ECP** (0.95%) / PSEG (40.71%) / RE (1.52%) ††
b0489.5	Replace Roseland 230 kV breaker '42H' with 80 kA	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0489.6	Replace Roseland 230 kV breaker '51H' with 80 kA	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0489.7	Replace Roseland 230 kV breaker '71H' with 80 kA	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0489.8	Replace Roseland 230 kV breaker '31H' with 80 kA	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement		Responsible Customer(s)
b0489.9	Replace Roseland 230 kV breaker '11H' with 80 kA		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0489.10	Replace Roseland 230 kV breaker '21H'		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0489.11	Replace Roseland 230 kV breaker '32H'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0489.12	Replace Roseland 230 kV breaker '12H'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0489.13	Replace Roseland 230 kV breaker '52H'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0489.14	Replace Roseland 230 kV breaker '41H'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

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

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0489.15	Replace Roseland 230 kV breaker '72H'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0498	Loop the 5021 circuit into New Freedom 500 kV substation	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement		Responsible Customer(s)
b0498.1	Upgrade the 20H circuit breaker		PSEG (100%)
b0498.2	Upgrade the 22H circuit breaker		PSEG (100%)
b0498.3	Upgrade the 30H circuit breaker		PSEG (100%)
b0498.4	Upgrade the 32H circuit breaker		PSEG (100%)
b0498.5	Upgrade the 40H circuit breaker		PSEG (100%)
b0498.6	Upgrade the 42H circuit breaker		PSEG (100%)
b0512	MAPP Project – install new 500 kV transmission from Possum Point to Calvert Cliffs and install a DC line from Calvert Cliffs to Vienna and a DC line from Calvert Cliffs to Indian River		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0565	Install 100 MVAR capacitor at Cox’s Corner 230 kV substation		PSEG (100%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0578	Replace Essex 138 kV breaker 4LM (C1355 line to ECRRF)	PSEG (100%)
b0579	Replace Essex 138 kV breaker 1LM (220-1 TX)	PSEG (100%)
b0580	Replace Essex 138 kV breaker 1BM (BS1-3 tie)	PSEG (100%)
b0581	Replace Essex 138 kV breaker 2BM (BS3-4 tie)	PSEG (100%)
b0582	Replace Linden 138 kV breaker 3 (132-7 TX)	PSEG (100%)
b0592	Replace Metuchen 138 kV breaker '2-2 Transfer'	PSEG (100%)
b0664	Reconductor with 2x1033 ACSS conductor	JCPL (36.35%) / NEPTUNE* (18.80%) / PSEG (43.24%) / RE (1.61%)
b0665	Reconductor with 2x1033 ACSS conductor	JCPL (36.35%) / NEPTUNE* (18.80%) / PSEG (43.24%) / RE (1.61%)
b0668	Reconductor with 2x1033 ACSS conductor	JCPL (39.41%) / NEPTUNE* (20.38%) / PSEG (38.76%) / RE (1.45%)
b0671	Replace terminal equipment at both ends of line	PSEG (100%)
b0743	Add a bus tie breaker at Roseland 138 kV	PSEG (100%)
b0812	Increase operating temperature on line for one year to get 925E MVA rating	PSEG (100%)
b0813	Reconductor Hudson – South Waterfront 230 kV circuit	BGE (1.25%) / JCPL (9.92%) / NEPTUNE* (0.87%) / PEPCO (1.11%) / PSEG (83.73%) / RE (3.12%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0814	New Essex – Kearney 138 kV circuit and Kearney 138 kV bus tie	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.1	Replace Kearny 138 kV breaker '1-SHT' with 80 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.2	Replace Kearny 138 kV breaker '15HF' with 80 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.3	Replace Kearny 138 kV breaker '14HF' with 80 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.4	Replace Kearny 138 kV breaker '10HF' with 80 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.5	Replace Kearny 138 kV breaker '2HT' with 80 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.6	Replace Kearny 138 kV breaker '22HF' with 80 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.7	Replace Kearny 138 kV breaker '4HT' with 80 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.8	Replace Kearny 138 kV breaker '25HF' with 80 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.9	Replace Essex 138 kV breaker '2LM' with 63 kA breaker and 2.5 cycle contact parting time	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0814.10	Replace Essex 138 kV breaker '1BT' with 63 kA breaker and 2.5 cycle contact parting time	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.11	Replace Essex 138 kV breaker '2PM' with 63 kA breaker and 2.5 cycle contact parting time	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.12	Replace Marion 138 kV breaker '2HM' with 63 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.13	Replace Marion 138 kV breaker '2LM' with 63 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.14	Replace Marion 138 kV breaker '1LM' with 63 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.15	Replace Marion 138 kV breaker '6PM' with 63 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.16	Replace Marion 138 kV breaker '3PM' with 63 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.17	Replace Marion 138 kV breaker '4LM' with 63 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0814.18	Replace Marion 138 kV breaker '3LM' with 63 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.19	Replace Marion 138 kV breaker '1HM' with 63 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.20	Replace Marion 138 kV breaker '2PM3' with 63 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.21	Replace Marion 138 kV breaker '2PM1' with 63 kA breaker	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.22	Replace ECRR 138 kV breaker '903'	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.23	Replace Foundry 138 kV breaker '21P'	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.24	Change the contact parting time on Essex 138 kV breaker '3LM' to 2.5 cycles	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.25	Change the contact parting time on Essex 138 kV breaker '2BM' to 2.5 cycles	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0814.26	Change the contact parting time on Essex 138 kV breaker '1BM' to 2.5 cycles	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.27	Change the contact parting time on Essex 138 kV breaker '3PM' to 2.5 cycles	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.28	Change the contact parting time on Essex 138 kV breaker '4LM' to 2.5 cycles	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.29	Change the contact parting time on Essex 138 kV breaker '1PM' to 2.5 cycles	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.30	Change the contact parting time on Essex 138 kV breaker '1LM' to 2.5 cycles	JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0829	Build Branchburg to Roseland 500 kV circuit as part of Branchburg – Hudson 500 kV project	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0829.6	Replace Branchburg 500 kV breaker 91X	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0829.9	Replace Branchburg 230 kV breaker 102H	PSEG (100%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0829.11	Replace Branchburg 230 kV breaker 32H	PSEG (100%)
b0829.12	Replace Branchburg 230 kV breaker 52H	PSEG (100%)
b0830	Build Roseland - Hudson 500 kV circuit as part of Branchburg – Hudson 500 kV project	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0830.1	Replace Roseland 230 kV breaker '82H' with 80 kA	PSEG (100%)
b0830.2	Replace Roseland 230 kV breaker '91H' with 80 kA	PSEG (100%)
b0830.3	Replace Roseland 230 kV breaker '22H' with 80 kA	PSEG (100%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0831	Replace 138/13 kV transformers with 230/13 kV units as part of Branchburg – Hudson 500 kV project	ComEd (2.51%) / Dayton (0.09%) / PENELEC (2.75%) / ECP** (2.45%) / PSEG (88.74%) / RE (3.46%)
b0832	Build Hudson 500 kV switching station as part of Branchburg – Hudson 500 kV project	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0833	Build Roseland 500 kV switching station as part of Branchburg – Hudson 500 kV project	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0834	Convert the E-1305/F-1306 to one 230 kV circuit as part of Branchburg – Hudson 500 kV project	ComEd (2.51%) / Dayton (0.09%) / PENELEC (2.75%) / ECP** (2.45%) / PSEG (88.74%) / RE (3.46%)
b0835	Build Hudson 230 kV transmission lines as part of Roseland – Hudson 500 kV project as part of Branchburg – Hudson 500 kV project	ComEd (2.51%) / Dayton (0.09%) / PENELEC (2.75%) / ECP** (2.45%) / PSEG (88.74%) / RE (3.46%)
b0836	Install transformation at new Hudson 500 kV switching station and perform Hudson 230 kV and 345 kV station work as part of Branchburg – Hudson 500 kV project	ComEd (2.51%) / Dayton (0.09%) / PENELEC (2.75%) / ECP** (2.45%) / PSEG (88.74%) / RE (3.46%)
b0882	Replace Hudson 230 kV breaker 1HA with 80 kA	PSEG (100%)
b0883	Replace Hudson 230 kV breaker 2HA with 80 kA	PSEG (100%)
b0884	Replace Hudson 230 kV breaker 3HB with 80 kA	PSEG (100%)
b0885	Replace Hudson 230 kV breaker 4HA with 80 kA	PSEG (100%)
b0886	Replace Hudson 230 kV breaker 4HB with 80 kA	PSEG (100%)
b0889	Replace Bergen 230 kV breaker '21H'	PSEG (100%)
b0890	Upgrade New Freedom 230 kV breaker '21H'	PSEG (100%)
b0891	Upgrade New Freedom 230 kV breaker '31H'	PSEG (100%)
b0899	Replace ECRR 138 kV breaker 901	PSEG (100%)
b0900	Replace ECRR 138 kV breaker 902	PSEG (100%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1013	Replace Linden 138 kV breaker '7PB'	PSEG (100%)
b1017	Reconductor South Mahwah - Waldwick 345 kV J-3410 circuit	JCPL (29.01%) / NEPTUNE* (2.74%) / PSEG (64.85%) / RE (2.53%) / ECP** (0.87%)
b1018	Reconductor South Mahwah - Waldwick 345 kV K-3411 circuit	JCPL (29.18%) / NEPTUNE* (2.74%) / PSEG (64.68%) / RE (2.53%) / ECP** (0.87%)
b1019.1	Replace wave trap, line disconnect and ground switch at Roseland on the F-2206 circuit	PSEG (100%)
b1019.2	Replace wave trap, line disconnect and ground switch at Roseland on the B-2258 circuit	PSEG (100%)
b1019.3	Replace 1-2 and 2-3 section disconnect and ground switches at Cedar Grove on the F-2206 circuit	PSEG (100%)
b1019.4	Replace 1-2 and 2-3 section disconnect and ground switches at Cedar Grove on the B-2258 circuit	PSEG (100%)
b1019.5	Replace wave trap, line disconnect and ground switch at Cedar Grove on the F-2206 circuit	PSEG (100%)
b1019.6	Replace line disconnect and ground switch at Cedar Grove on the K-2263 circuit	PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement		Responsible Customer(s)
b1019.7	Replace 2-4 and 4-5 section disconnect and ground switches at Clifton on the B-2258 circuit		PSEG (100%)
b1019.8	Replace 1-2 and 2-3 section disconnect and ground switches at Clifton on the K-2263 circuit		PSEG (100%)
b1019.9	Replace line, ground, 230 kV main bus disconnects at Athenia on the B-2258 circuit		PSEG (100%)
b1019.10	Replace wave trap, line, ground 230 kV breaker disconnect and 230 kV main bus disconnects at Athenia on the K-2263 circuit		PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1082.1	Replace Bergen 138 kV breaker '30P' with 80 kA	PSEG (100%)
b1082.2	Replace Bergen 138 kV breaker '80P' with 80 kA	PSEG (100%)
b1082.3	Replace Bergen 138 kV breaker '70P' with 80 kA	PSEG (100%)
b1082.4	Replace Bergen 138 kV breaker '90P' with 63 kA	PSEG (100%)
b1082.5	Replace Bergen 138 kV breaker '50P' with 63 kA	PSEG (100%)
b1082.6	Replace Bergen 230 kV breaker '12H' with 80 kA	PSEG (100%)
b1082.7	Replace Bergen 230 kV breaker '21H' with 80 kA	PSEG (100%)
b1082.8	Replace Bergen 230 kV breaker '11H' with 80 kA	PSEG (100%)
b1082.9	Replace Bergen 230 kV breaker '20H' with 80 kA	PSEG (100%)
b1098	Re-configure the Bayway 138 kV substation and install three new 138 kV breakers	PSEG (100%)
b1099	Build a new 230 kV substation by tapping the Aldene – Essex circuit and install three 230/26 kV transformers, and serve some of the Newark area load from the new station	PSEG (100%)
b1100	Build a new 138 kV circuit from Bayonne to Marion	PSEG (100%)
b1101	Re-configure the Cedar Grove substation with breaker and half scheme and build a new 69 kV circuit from Cedar Grove to Hinchman	PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1154	Convert the West Orange 138 kV substation, the two Roseland – West Orange 138 kV circuits, and the Roseland – Sewaren 138 kV circuit from 138 kV to 230 kV	PSEG (96.18%) / RE (3.82%)
b1155	Build a new 230 kV circuit from Branchburg to Middlesex Sw. Rack. Build a new 230 kV substation at Middlesex	JCPL (4.61%) / PSEG (91.75%) / RE (3.64%)
b1155.3	Replace Branchburg 230 kV breaker '81H' with 63 kA	PSEG (100%)
b1155.4	Replace Branchburg 230 kV breaker '72H' with 63 kA	PSEG (100%)
b1155.5	Replace Branchburg 230 kV breaker '61H' with 63 kA	PSEG (100%)
b1155.6	Replace Branchburg 230 kV breaker '41H' with 63 kA	PSEG (100%)
b1156	Convert the Burlington, Camden, and Cuthbert Blvd 138 kV substations, the 138 kV circuits from Burlington to Camden, and the 138 kV circuit from Camden to Cuthbert Blvd. from 138 kV to 230 kV	PSEG (96.18%) / RE (3.82%)
b1156.13	Replace Camden 230 kV breaker '22H' with 80 kA	PSEG (100%)
b1156.14	Replace Camden 230 kV breaker '32H' with 80 kA	PSEG (100%)
b1156.15	Replace Camden 230 kV breaker '21H' with 80 kA	PSEG (100%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1156.16	Replace New Freedom 230 kV breaker '50H' with 63 kA	PSEG (100%)
b1156.17	Replace New Freedom 230 kV breaker '41H' with 63 kA	PSEG (100%)
b1156.18	Replace New Freedom 230 kV breaker '51H' with 63 kA	PSEG (100%)
b1156.19	Rebuild Camden 230 kV to 80 kA	PSEG (100%)
b1156.20	Rebuild Burlington 230 kV to 80 kA	PSEG (100%)
b1197.1	Reconductor the PSEG portion of the Burlington – Croydon circuit with 1590 ACSS	PSEG (100%)
b1228	Re-configure the Lawrence 230 kV substation to breaker and half	HTP (0.14%) / ECP (0.22%) / PSEG (95.83%) / RE (3.81%)
b1255	Build a new 69 kV substation (Ridge Road) and build new 69 kV circuits from Montgomery – Ridge Road – Penns Neck/Dow Jones	PSEG (96.18%) / RE (3.82%)
b1304.1	Convert the existing 'D1304' and 'G1307' 138 kV circuits between Roseland – Kearny – Hudson to 230 kV operation	AEC (0.23%) / BGE (0.97%) / ComEd (2.32%) / Dayton (0.13%) / JCPL (1.17%) / Neptune (0.07%) / HTP (16.05%) / PENELEC (2.97%) / PEPCO (1.04%) / ECP (2.11%) / PSEG (70.16%) / RE (2.78%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1304.2	Expand existing Bergen 230 kV substation and reconfigure the Athenia 230 kV substation to breaker and a half scheme	AEC (0.23%) / BGE (0.97%) / ComEd (2.32%) / Dayton (0.13%) / JCPL (1.17%) / Neptune (0.07%) / HTP (16.05%) / PENELEC (2.97%) / PEPCO (1.04%) / ECP (2.11%) / PSEG (70.16%) / RE (2.78%)
b1304.3	Build second 230 kV underground cable from Bergen to Athenia	AEC (0.23%) / BGE (0.97%) / ComEd (2.32%) / Dayton (0.13%) / JCPL (1.17%) / Neptune (0.07%) / HTP (16.05%) / PENELEC (2.97%) / PEPCO (1.04%) / ECP (2.11%) / PSEG (70.16%) / RE (2.78%)
b1304.4	Build second 230 kV underground cable from Hudson to South Waterfront	AEC (0.23%) / BGE (0.97%) / ComEd (2.32%) / Dayton (0.13%) / JCPL (1.17%) / Neptune (0.07%) / HTP (16.05%) / PENELEC (2.97%) / PEPCO (1.04%) / ECP (2.11%) / PSEG (70.16%) / RE (2.78%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1304.5	Replace Athenia 230 kV breaker '21H' with 80 kA	PSEG (100%)
b1304.6	Replace Athenia 230 kV breaker '41H' with 80 kA	PSEG (100%)
b1304.7	Replace South Waterfront 230 kV breaker '12H' with 80 kA	PSEG (100%)
b1304.8	Replace South Waterfront 230 kV breaker '22H' with 80 kA	PSEG (100%)
b1304.9	Replace South Waterfront 230 kV breaker '32H' with 80 kA	PSEG (100%)
b1304.10	Replace South Waterfront 230 kV breaker '52H' with 80 kA	PSEG (100%)
b1304.11	Replace South Waterfront 230 kV breaker '62H' with 80 kA	PSEG (100%)
b1304.12	Replace South Waterfront 230 kV breaker '72H' with 80 kA	PSEG (100%)
b1304.13	Replace South Waterfront 230 kV breaker '82H' with 80 kA	PSEG (100%)
b1304.14	Replace Essex 230 kV breaker '20H' with 80 kA	PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1304.15	Replace Essex 230 kV breaker '21H' with 80 kA	PSEG (100%)
b1304.16	Replace Essex 230 kV breaker '10H' with 80 kA	PSEG (100%)
b1304.17	Replace Essex 230 kV breaker '11H' with 80 kA	PSEG (100%)
b1304.18	Replace Essex 230 kV breaker '11HL' with 80 kA	PSEG (100%)
b1304.19	Replace Newport R 230 kV breaker '23H' with 63 kA	PSEG (100%)
b1304.20	Rebuild Athenia 230 kV substation to 80 kA	PSEG (100%)
b1304.21	Rebuild Bergen 230 kV substation to 80 kA	PSEG (100%)
b1398	Build two new parallel underground circuits from Gloucester to Camden	JCPL (12.82%) / NEPTUNE (1.18%) / HTP (0.79%) / PECO (51.08%) / PEPCO (0.57%) / ECP** (0.85%) / PSEG (31.46%) / RE (1.25%)
b1398.1	Install shunt reactor at Gloucester to offset cable charging	JCPL (12.82%) / NEPTUNE (1.18%) / HTP (0.79%) / PECO (51.08%) / PEPCO (0.57%) / ECP** (0.85%) / PSEG (31.46%) / RE (1.25%)
b1398.2	Reconfigure the Cuthbert station to breaker and a half scheme	JCPL (12.82%) / NEPTUNE (1.18%) / HTP (0.79%) / PECO (51.08%) / PEPCO (0.57%) / ECP** (0.85%) / PSEG (31.46%) / RE (1.25%)
b1398.3	Build a second 230 kV parallel overhead circuit from Mickelton – Gloucester	JCPL (12.82%) / NEPTUNE (1.18%) / HTP (0.79%) / PECO (51.08%) / PEPCO (0.57%) / ECP** (0.85%) / PSEG (31.46%) / RE (1.25%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1398.4	Reconductor the existing Mickleton – Gloucester 230 kV circuit (PSEG portion)	JCPL (12.82%) / NEPTUNE (1.18%) / HTP (0.79%) / PECO (51.08%) / PEPCO (0.57%) / ECP** (0.85%) / PSEG (31.46%) / RE (1.25%)
b1398.7	Reconductor the Camden – Richmond 230 kV circuit (PSEG portion) and upgrade terminal equipments at Camden substations	JCPL (12.82%) / NEPTUNE (1.18%) / HTP (0.79%) / PECO (51.08%) / PEPCO (0.57%) / ECP** (0.85%) / PSEG (31.46%) / RE (1.25%)
b1398.15	Replace Gloucester 230 kV breaker '21H' with 63 kA	PSEG (100%)
b1398.16	Replace Gloucester 230 kV breaker '51H' with 63 kA	PSEG (100%)
b1398.17	Replace Gloucester 230 kV breaker '56H' with 63 kA	PSEG (100%)
b1398.18	Replace Gloucester 230 kV breaker '26H' with 63 kA	PSEG (100%)
b1398.19	Replace Gloucester 230 kV breaker '71H' with 63 kA	PSEG (100%)
b1399	Convert the 138 kV path from Aldene – Springfield Rd. – West Orange to 230 kV	PSEG (96.18%) / RE (3.82%)
b1400	Install 230 kV circuit breakers at Bennetts Ln. “F” and “X” buses	PSEG (100%)

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

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1410	Replace Salem 500 kV breaker '11X'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1411	Replace Salem 500 kV breaker '12X'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1412	Replace Salem 500 kV breaker '20X'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1413	Replace Salem 500 kV breaker '21X'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1414	Replace Salem 500 kV breaker '31X'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1415	Replace Salem 500 kV breaker '32X'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1539	Replace Tosco 230 kV breaker 'CB1' with 63 kA	PSEG (100%)
b1540	Replace Tosco 230 kV breaker 'CB2' with 63 kA	PSEG (100%)
b1541	Open the Hudson 230 kV bus tie	PSEG (100%)
b1588	Reconductor the Eagle Point - Gloucester 230 kV circuit #1 and #2 with higher conductor rating	JCPL (10.31%) / Neptune* (0.98%) / HTP (0.75%) / PECO (30.81%) / ECP** (0.82%) / PSEG (54.17%) / RE (2.16%)
b1589	Re-configure the Kearny 230 kV substation and loop the P-2216-1 (Essex - NJT Meadows) 230 kV circuit	ATSI (8.00%) / HTP (20.18%) / PENELEC (7.77%) / PSEG (61.59%) / RE (2.46%)
b1590	Upgrade the PSEG portion of the Camden Richmond 230 kV circuit to six wire conductor and replace terminal equipment at Camden	BGE (3.05%) / ME (0.83%) / HTP (0.21%) / PECO (91.36%) / PEPCO (1.93%) / PPL (2.46%) / ECP** (0.16%)
b1749	Advance n1237 (Replace Essex 230 kV breaker '22H' with 80kA)	PSEG (100%)
b1750	Advance n0666.5 (Replace Hudson 230 kV breaker '1HB' with 80 kA (without TRV cap, so actually 63 kA))	PSEG (100%)
b1751	Advance n0666.3 (Replace Hudson 230 kV breaker '2HA' with 80 kA (without TRV cap, so actually 63 kA))	PSEG (100%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1752	Advance n0666.10 (Replace Hudson 230 kV breaker '2HB' with 80 kA (without TRV cap, so actually 63 kA))	PSEG (100%)
b1753	Marion 138 kV breaker '7PM' - delay the relay time to increase the contact parting time to 2.5 cycles	PSEG (100%)
b1754	Marion 138 kV breaker '3PM' - delay the relay time to increase the contact parting time to 2.5 cycles	PSEG (100%)
b1755	Marion 138 kV breaker '6PM' - delay the relay time to increase the contact parting time to 2.5 cycles	PSEG (100%)
b1787	Build a second 230 kV circuit from Cox's Corner - Lumberton	AEC (4.96%) / JCPL (44.20%) / NEPTUNE* (0.53%) / HTP (0.15%) / ECP** (0.16%) / PSEG (48.08%) / RE (1.92%)
b2034	Install a reactor along the Kearny - Essex 138 kV line	PSEG (100%)
b2035	Replace Sewaren 138 kV breaker '11P'	PSEG (100%)
b2036	Replace Sewaren 138 kV breaker '21P'	PSEG (100%)
b2037	Replace PVSC 138 kV breaker '452'	PSEG (100%)
b2038	Replace PVSC 138 kV breaker '552'	PSEG (100%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2039	Replace Bayonne 138 kV breaker '11P'	PSEG (100%)
b2139	Reconductor the Mickleton - Gloucester 230 kV parallel circuits with double bundle conductor	PSEG (61.11%) / PECO (36.45%) / RE (2.44%)
b2146	Re-configure the Brunswick 230 kV and 69 kV substations	PSEG (96.16%) / RE (3.84%)
b2151	Construct Jackson Rd. 69 kV substation and loop the Cedar Grove - Hinchmans Ave into Jackson Rd. and construct Hawthorne 69 kV substation and build 69 kV circuit from Hinchmans Ave - Hawthorne - Fair Lawn	PSEG (100%)
b2159	Reconfigure the Linden, Bayway, North Ave, and Passaic Valley S.C. 138 kV substations. Construct and loop new 138 kV circuit to new airport station	PSEG (72.61%) / HTP (24.49%) / RE (2.90%)

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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)	HTP (36.49%) / ECP** (63.51%)
b2239	50 MVAR reactor at Saddlebrook 230 kV	PSEG (100%)
b2240	50 MVAR reactor at Athenia 230 kV	PSEG (100%)
b2241	50 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2242	50 MVAR reactor at Hudson 230 kV	PSEG (100%)
b2243	Two 50 MVAR reactors at Stanley Terrace 230 kV	PSEG (100%)
b2244	50 MVAR reactor at West Orange 230 kV	PSEG (100%)
b2245	50 MVAR reactor at Aldene 230 kV	PSEG (100%)
b2246	150 MVAR reactor at Camden 230 kV	PSEG (100%)
b2247	150 MVAR reactor at Gloucester 230 kV	PSEG (100%)
b2248	50 MVAR reactor at Clarksville 230 kV	PSEG (100%)
b2249	50 MVAR reactor at Hinchmans 230 kV	PSEG (100%)
b2250	50 MVAR reactor at Beaverbrook 230 kV	PSEG (100%)
b2251	50 MVAR reactor at Cox's Corner 230 kV	PSEG (100%)

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

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

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

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2421.2	Install a second four (4) breaker 69kV ring bus at Bridgewater Switching Station	PSEG (100%)
b2436.10	Convert the Bergen – Marion 138 kV path to double circuit 345 kV and associated substation upgrades	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)
		DFAX Allocation: ECP (89.85%) / HTP (2.18%) / PSEG (7.66%) / RE (0.31%)
b2436.21	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)
		DFAX Allocation: HTP*** (99.40%) / ECP** (0.60%)

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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>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: HTP*** (99.40%) / ECP** (0.60%)</p>
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades		ECP (0.30%) / HTP (99.70%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades		ECP (0.33%) / HTP (99.67%)

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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	HTP*** (99.44%) / ECP** (0.56%)
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	HTP*** (99.84%) / ECP** (0.16%)
b2436.70	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades	HTP*** (99.92%) / ECP** (0.08%)
b2436.81	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)
		DFAX Allocation: HTP*** (7.57%) / ECP** (0.02%) / PSEG (88.90%) / RE (3.51%)

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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>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: HTP*** (7.56%) / ECP** (0.02%) / PSEG (88.91%) / RE (3.51%)</p>
b2436.84	Convert the Bayway – Linden “W” 138 kV circuit to 345 kV and any associated substation upgrades		<p>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: ECP (0.02%) / HTP (99.98%)</p>

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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>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: ECP (0.02%) / HTP (99.98%)</p>
b2436.90	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades	<p>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: HTP (5.83%) / PSEG (90.60%) / RE (3.57%)</p>
b2436.91	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated upgrades	PSEG (100%)

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

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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>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p>
b2633.4	Add a new 500 kV bay at Salem (Expansion of Salem substation)	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.5	Add a new 500/230 kV autotransformer at Salem	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines	<p>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p>

*Neptune Regional Transmission System, LLC

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

***Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)
		DFAX Allocation: PSEG (100%)
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

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

Attachment 7b (VEPCo OATT)

SCHEDULE 12 – APPENDIX

(20) Virginia Electric and Power Company

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

b0217	Upgrade Mt. Storm - Doubs 500kV		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0222	Install 150 MVAR capacitor at Loudoun 500 kV		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

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

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0223 Install 150 MVAR capacitor at Asburn 230 kV		Dominion (100%)
b0224 Install 150 MVAR capacitor at Dranesville 230 kV		Dominion (100%)
b0225 Install 33 MVAR capacitor at Possum Pt. 115 kV		Dominion (100%)
b0226 Install 500/230 kV transformer at Clifton and Clifton 500 kV 150 MVAR capacitor	As specified in Attachment 7 to Appendix A of Attachment H-16A and under the procedures detailed in Attachment H-16B	APS (3.69%) / BGE (3.54%) / Dominion (85.73%) / PEPCO (7.04%)
b0227 Install 500/230 kV transformer at Bristers; build new 230 kV Bristers-Gainsville circuit, upgrade two Loudoun-Brambleton circuits		AEC (0.71%) / APS (3.36%) / BGE (10.93%) / DPL (1.66%) / Dominion (67.38%) / ME (0.89%) / PECO (2.33%) / PEPCO (12.20%) / PPL (0.54%)
b0227.1 Loudoun Sub – upgrade 6-230 kV breakers		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0231	Install 500 kV breakers & 500 kV bus work at Suffolk	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0231.2	Install 500/230 kV Transformer, 230 kV breakers, & 230 kV bus work at Suffolk	Dominion (100%)
b0232	Install 150 MVAR capacitor at Lynnhaven 230 kV	Dominion (100%)
b0233	Install 150 MVAR capacitor at Landstown 230 kV	Dominion (100%)
b0234	Install 150 MVAR capacitor at Greenwich 230 kV	Dominion (100%)
b0235	Install 150 MVAR capacitor at Fentress 230 kV	Dominion (100%)

* Neptune Regional Transmission System, LLC

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

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0307	Reconductor Endless Caverns – Mt. Jackson 115 kV	Dominion (100%)
b0308	Replace L breaker and switches at Endless Caverns 115 kV	Dominion (100%)
b0309	Install SPS at Earleys 115 kV	Dominion (100%)
b0310	Reconductor Club House – South Hill and Chase City – South Hill 115 kV	Dominion (100%)
b0311	Reconductor Idylwood to Arlington 230 kV	Dominion (100%)
b0312	Reconductor Gallows to Ox 230 kV	Dominion (100%)
b0325	Install a 2 nd Everetts 230/115 kV transformer	Dominion (100%)
b0326	Uprate/resag Remington-Brandywine-Culppr 115 kV	Dominion (100%)
b0327	Build 2 nd Harrisonburg – Valley 230 kV	APS (19.79%) / Dominion (76.18%) / PEPCO (4.03%)
b0328.1	Build new Meadow Brook – Loudoun 500 kV circuit (30 of 50 miles)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0328.3	Upgrade Mt. Storm 500 kV substation	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0328.4	Upgrade Loudoun 500 kV substation	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0329	Build Carson – Suffolk 500 kV, install 2 nd Suffolk 500/230 kV transformer & build Suffolk – Fentress 230 kV circuit	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0329	Build Carson – Suffolk 500 kV, install 2 nd Suffolk 500/230 kV transformer & build Suffolk – Fentress 230 kV circuit	Dominion (100%)††
b0329.1	Replace Thole Street 115 kV breaker ‘48T196’	Dominion (100%)
b0329.2	Replace Chesapeake 115 kV breaker ‘T242’	Dominion (100%)
b0329.3	Replace Chesapeake 115 kV breaker ‘8722’	Dominion (100%)
b0329.4	Replace Chesapeake 115 kV breaker ‘16422’	Dominion (100%)
b0330	Install Crewe 115 kV breaker and shift load from line 158 to 98	Dominion (100%)
b0331	Upgrade/resag Shell Bank – Whealton 115 kV (Line 165)	Dominion (100%)

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†Cost allocations associated with Regional Facilities and Necessary Lower Voltage Facilities associated with the project

††Cost allocations associated with below 500 kV elements of the project

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0332	Uprate/resag Chesapeake – Cradock 115 kV	Dominion (100%)
b0333	Replace wave trap on Elmont – Replace (Line #231)	Dominion (100%)
b0334	Uprate/resag Iron Bridge-Walmsley-Southwest 230 kV	Dominion (100%)
b0335	Build Chase City – Clarksville 115 kV	Dominion (100%)
b0336	Reconductor one span of Chesapeake – Dozier 115 kV close to Dozier substation	Dominion (100%)
b0337	Build Lexington 230 kV ring bus	Dominion (100%)
b0338	Replace Gordonsville 230/115 kV transformer for larger one	Dominion (100%)
b0339	Install Breaker at Doods 230 kV Sub	Dominion (100%)
b0340	Reconductor one span Peninsula – Magruder 115 kV close to Magruder substation	Dominion (100%)
b0341	Install a breaker at Northern Neck 115 kV	Dominion (100%)
b0342	Replace Trowbridge 230/115 kV transformer	Dominion (100%)
b0403	2 nd Doods 500/230 kV transformer addition	APS (3.35%) / BGE (4.22%) / DPL (1.10%) / Dominion (83.94%) / PEPCO (7.39%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0412	Retension Pruntytown – Mt. Storm 500 kV to a 3502 MVA rating	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0450	Install 150 MVAR Capacitor at Fredricksburg 230 kV	Dominion (100%)
b0451	Install 25 MVAR Capacitor at Somerset 115 kV	Dominion (100%)
b0452	Install 150 MVAR Capacitor at Northwest 230 kV	Dominion (100%)
b0453.1	Convert Remington – Sowego 115 kV to 230 kV	APS (0.31%) / BGE (3.01%) / DPL (0.04%) / Dominion (92.75%) / ME (0.03%) / PEPCO (3.86%)
b0453.2	Add Sowego – Gainsville 230 kV	APS (0.31%) / BGE (3.01%) / DPL (0.04%) / Dominion (92.75%) / ME (0.03%) / PEPCO (3.86%)
b0453.3	Add Sowego 230/115 kV transformer	APS (0.31%) / BGE (3.01%) / DPL (0.04%) / Dominion (92.75%) / ME (0.03%) / PEPCO (3.86%)
b0454	Reconductor 2.4 miles of Newport News – Chuckatuck 230 kV	Dominion (100%)

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

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0455	Add 2 nd Endless Caverns 230/115 kV transformer	APS (32.70%) / BGE (7.01%) / DPL (1.80%) / Dominion (50.82%) / PEPCO (7.67%)
b0456	Reconductor 9.4 miles of Edinburg – Mt. Jackson 115 kV	APS (33.69%) / BGE (12.18%) / Dominion (40.08%) / PEPCO (14.05%)
b0457	Replace both wave traps on Dooms – Lexington 500 kV	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0467.2	Reconductor the Dickerson – Pleasant View 230 kV circuit	AEC (1.75%) / APS (19.70%) / BGE (22.13%) / DPL (3.70%) / JCPL (0.71%) / ME (2.48%) / Neptune* (0.06%) / PECO (5.54%) / PEPCO (41.86%) / PPL (2.07%)

* Neptune Regional Transmission System, LLC

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

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0492.6	Replace Mount Storm 500 kV breaker 55072	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0492.7	Replace Mount Storm 500 kV breaker 55172	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0492.8	Replace Mount Storm 500 kV breaker H1172-2	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

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

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0492.9	Replace Mount Storm 500 kV breaker G2T550	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0492.10	Replace Mount Storm 500 kV breaker G2T554	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0492.11	Replace Mount Storm 500 kV breaker G1T551	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0492.12	Upgrade nameplate rating of Mount Storm 500 kV breakers 55472, 57272, SX172, G3TSX1, G1TH11, G3T572, and SX22	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512	MAPP Project – install new 500 kV transmission from Possum Point to Calvert Cliffs and install a DC line from Calvert Cliffs to Vienna and a DC line from Calvert Cliffs to Indian River	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512.5	Advance n0716 (Ox - Replace 230kV breaker L242)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.6	Advance n0717 (Possum Point - Replace 230kV breaker SC192)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0583	Install dual primary protection schemes on Gosport lines 62 and 51 at the remote terminals (Chesapeake on the 62 line and Reeves Ave on the 51 line)	Dominion (100%)
b0756	Install a second 500/115 kV autotransformer at Chancellor 500 kV	Dominion (100%)
b0756.1	Install two 500 kV breakers at Chancellor 500 kV	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0757	Reconductor one mile of Chesapeake – Reeves Avenue 115 kV line	Dominion (100%)
b0758	Install a second Fredericksburg 230/115 kV autotransformer	Dominion (100%)
b0760	Build 115 kV line from Kitty Hawk to Colington 115 kV (Colington on the existing line and Nag’s Head and Light House DP on new line)	Dominion (100%)
b0761	Install a second 230/115 kV transformer at Possum Point	Dominion (100%)
b0762	Build a new Elko station and transfer load from Turner and Providence Forge stations	Dominion (100%)
b0763	Rebuild 17.5 miles of the line for a new summer rating of 262 MVA	Dominion (100%)
b0764	Increase the rating on 2.56 miles of the line between Greenwich and Thompson Corner; new rating to be 257 MVA	Dominion (100%)
b0765	Add a second Bull Run 230/115 kV autotransformer	Dominion (100%)
b0766	Increase the rating of the line between Loudoun and Cedar Grove to at least 150 MVA	Dominion (100%)
b0767	Extend the line from Old Church – Chickahominy 230 kV	Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b0768	Loop line #251 Idylwood – Arlington into the GIS sub		Dominion (100%)
b0769	Re-tension 15 miles of the line for a new summer rating of 216 MVA		Dominion (100%)
b0770	Add a second 230/115 kV autotransformer at Lanexa		Dominion (100%)
b0770.1	Replace Lanexa 115 kV breaker ‘8532’		Dominion (100%)
b0770.2	Replace Lanexa 115 kV breaker ‘9232’		Dominion (100%)
b0771	Build a parallel Chickahominy – Lanexa 230 kV line		Dominion (100%)
b0772	Install a second Elmont 230/115 kV autotransformer		Dominion (100%)
b0772.1	Replace Elmont 115 kV breaker ‘7392’		Dominion (100%)
b0774	Install a 33 MVAR capacitor at Bremono 115 kV		Dominion (100%)
b0775	Reconductor the Greenwich – Virginia Beach line to bring it up to a summer rating of 261 MVA; Reconductor the Greenwich – Amphibious Base line to bring it up to 291 MVA		Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0776	Re-build Trowbridge – Winfall 115 kV	Dominion (100%)
b0777	Terminate the Thelma – Carolina 230 kV circuit into Lakeview 230 kV	Dominion (100%)
b0778	Install 29.7 MVAR capacitor at Lebanon 115 kV	Dominion (100%)
b0779	Build a new 230 kV line from Yorktown to Hayes but operate at 115 kV initially	Dominion (100%)
b0780	Reconductor Chesapeake – Yadkin 115 kV line	Dominion (100%)
b0781	Reconductor and replace terminal equipment on line 17 and replace the wave trap on line 88	Dominion (100%)
b0782	Install a new 115 kV capacitor at Dupont Waynesboro substation	Dominion (100%)
b0784	Replace wave traps on North Anna to Ladysmith 500 kV	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0785	Rebuild the Chase City – Crewe 115 kV line	Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0786	Reconductor the Moran DP – Crewe 115 kV segment	Dominion (100%)
b0787	Upgrade the Chase City – Twitty’s Creek 115 kV segment	Dominion (100%)
b0788	Reconductor the line from Farmville – Pamplin 115 kV	Dominion (100%)
b0793	Close switch 145T183 to network the lines. Rebuild the section of the line #145 between Possum Point – Minnieville DP 115 kV	Dominion (100%)
b0815	Replace Elmont 230 kV breaker '22192'	Dominion (100%)
b0816	Replace Elmont 230 kV breaker '21692'	Dominion (100%)
b0817	Replace Elmont 230 kV breaker '200992'	Dominion (100%)
b0818	Replace Elmont 230 kV breaker '2009T2032'	Dominion (100%)
b0837	At Mt. Storm, replace the existing MOD on the 500 kV side of the transformer with a circuit breaker	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0888	Replace Loudoun 230 kV Cap breaker 'SC352'	Dominion (100%)
b0892	Replace Chesapeake 115 kV breaker SX522	Dominion (100%)
b0893	Replace Chesapeake 115 kV breaker T202	Dominion (100%)
b0894	Replace Possum Point 115 kV breaker SX-32	Dominion (100%)
b0895	Replace Possum Point 115 kV breaker L92-1	Dominion (100%)
b0896	Replace Possum Point 115 kV breaker L92-2	Dominion (100%)
b0897	Replace Suffolk 115 kV breaker T202	Dominion (100%)
b0898	Replace Peninsula 115 kV breaker SC202	Dominion (100%)
b0921	Reconductor Brambleton - Cochran Mill 230 kV line with 201 Yukon conductor	Dominion (100%)
b0923	Install 50-100 MVAR variable reactor banks at Carson 230 kV	Dominion (100%)
b0924	Install 50-100 MVAR variable reactor banks at Dooms 230 kV	Dominion (100%)
b0925	Install 50-100 MVAR variable reactor banks at Garrisonville 230 kV	Dominion (100%)
b0926	Install 50-100 MVAR variable reactor banks at Hamilton 230 kV	Dominion (100%)
b0927	Install 50-100 MVAR variable reactor banks at Yadkin 230 kV	Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0928	Install 50-100 MVAR variable reactor banks at Carolina, Doods, Everetts, Idylwood, N. Alexandria, N. Anna, Suffolk and Valley 230 kV substations	Dominion (100%)
b1056	Build a 2nd Shawboro – Elizabeth City 230kV line	Dominion (100%)
b1058	Add a third 230/115 kV transformer at Suffolk substation	Dominion (100%)
b1058.1	Replace Suffolk 115 kV breaker ‘T122’ with a 40 kA breaker	Dominion (100%)
b1058.2	Convert Suffolk 115 kV straight bus to a ring bus for the three 230/115 kV transformers and three 115 kV lines	Dominion (100%)
b1071	Rebuild the existing 115 kV corridor between Landstown - Va Beach Substation for a double circuit arrangement (230 kV & 115 kV)	Dominion (100%)
b1076	Replace existing North Anna 500-230kV transformer with larger unit	Dominion (100%)
b1087	Replace Cannon Branch 230-115 kV with larger transformer	Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1088	Build new Radnor Heights Sub, add new underground circuit from Ballston - Radnor Heights, Tap the Glebe - Davis line and create circuits from Davis - Radnor Heights and Glebe - Radnor Heights	
		Dominion (100%)
b1089	Install 2nd Burke to Sideburn 230 kV underground cable	
		Dominion (100%)
b1090	Install a 150 MVAR 230 kV capacitor and one 230 kV breaker at Northwest	
		Dominion (100%)
b1095	Reconductor Chase City 115 kV bus and add a new tie breaker	
		Dominion (100%)
b1096	Construct 10 mile double ckt. 230kV tower line from Loudoun to Middleburg	
		Dominion (100%)
b1102	Replace Brema 115 kV breaker '9122'	
		Dominion (100%)
b1103	Replace Brema 115 kV breaker '822'	
		Dominion (100%)
b1172	Build a 4-6 mile long 230 kV line from Hopewell to Bull Hill (Ft Lee) and install a 230-115 kV Tx	
		Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1188	Build new Brambleton 500 kV three breaker ring bus connected to the Loudoun to Pleasant View 500 kV line	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1188.1	Replace Loudoun 230 kV breaker '200852' with a 63 kA breaker	Dominion (100%)
b1188.2	Replace Loudoun 230 kV breaker '2008T2094' with a 63 kA breaker	Dominion (100%)
b1188.3	Replace Loudoun 230 kV breaker '204552' with a 63 kA breaker	Dominion (100%)
b1188.4	Replace Loudoun 230 kV breaker '209452' with a 63 kA breaker	Dominion (100%)
b1188.5	Replace Loudoun 230 kV breaker 'WT2045' with a 63 kA breaker	Dominion (100%)
b1188.6	Install one 500/230 kV transformer and two 230 kV breakers at Brambleton	AEC (0.22%) / BGE (7.90%) / DPL (0.59%) / Dominion (75.58%) / ME (0.22%) / PECO (0.73%) / PEPCO (14.76%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1224	Install 2nd Clover 500/230 kV transformer and a 150 MVar capacitor	BGE (7.56%) / DPL (1.03%) / Dominion (78.21%) / ME (0.77%) / PECO (1.39%) / PEPCO (11.04%)
b1225	Replace Yorktown 115 kV breaker 'L982-1'	Dominion (100%)
b1226	Replace Yorktown 115 kV breaker 'L982-2'	Dominion (100%)
b1279	Line #69 Uprate – Increase rating on Locks – Purdy 115 kV to serve additional load at the Reams delivery point	Dominion (100%)
b1306	Reconfigure 115 kV bus at Endless Caverns substation such that the existing two 230/115 kV transformers at Endless Caverns operate in	Dominion (100%)
b1307	Install a 2nd 230/115 kV transformer at Northern Neck Substation	Dominion (100%)
b1308	Improve LSE's power factor in zone to .973 PF, adjust LTC's at Gordonsville and Remington, move existing shunt capacitor banks	Dominion (100%)
b1309	Install a 230 kV line from Lakeside to Northwest utilizing the idle line and 60 line ROW's and reconductor the existing 221 line between Elmont and Northwest	Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1310	Install a 115 kV breaker at Broadnax substation on the South Hill side of Broadnax	Dominion (100%)
b1311	Install a 230 kV 3000 amp breaker at Cranes Corner substation to sectionalize the 2104 line into two lines	Dominion (100%)
b1312	Loop the 2054 line in and out of Hollymeade and place a 230 kV breaker at Hollymeade. This creates two lines: Charlottesville - Hollymeade	Dominion (100%)
b1313	Resag wire to 125C from Chesterfield – Shockoe and replace line switch 1799 with 1200 amp switch. The new rating would be 231 MVA.	Dominion (100%)
b1314	Rebuild the 6.8 mile line #100 from Chesterfield to Harrowgate 115 kV for a minimum 300 MBA rating	Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1315	Convert line #64 Trowbridge to Winfall to 230 kV and install a 230 kV capacitor bank at Winfall	Dominion (100%)
b1316	Rebuild 10.7 miles of 115 kV line #80, Battleboro – Heartsease DP	Dominion (100%)
b1317	LSE load power factor on the #47 line will need to meet MOA requirements of .973 in 2015 to further resolve this issue through at least 2019	Dominion (100%)
b1318	Install a 115 kV bus tie breaker at Acca substation between the Line #60 and Line #95 breakers	Dominion (100%)
b1319	Resag line #222 to 150 C and upgrade any associated equipment to a 2000A rating to achieve a 706 MVA summer line rating	Dominion (100%)
b1320	Install a 230 kV, 150 MVAR capacitor bank at Southwest substation	Dominion (100%)
b1321	Build a new 230 kV line North Anna – Oak Green and install a 224 MVA 230/115 kV transformer at Oak Green	BGE (0.85%) / Dominion (97.96%) / PEPCO (1.19%)
b1322	Rebuild the 39 Line (Dooms – Sherwood) and the 91 Line (Sherwood – Bremo)	Dominion (100%)
b1323	Install a 224 MVA 230/115 kV transformer at Staunton. Rebuild the 115 kV line #43 section Staunton - Verona	Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1324	Install a 115 kV capacitor bank at Oak Ridge. Install a capacitor bank at New Bohemia. Upgrade 230/34.5 kV transformer #3 at Kings Fork	Dominion (100%)
b1325	Rebuild 15 miles of line #2020 Winfall – Elizabeth City with a minimum 900 MVA rating	Dominion (100%)
b1326	Install a third 168 MVA 230/115 kV transformer at Kitty Hawk with a normally open 230 kV breaker and a low side 115 kV breaker	Dominion (100%)
b1327	Rebuild the 20 mile section of line #22 between Kerr Dam – Eatons Ferry substations	Dominion (100%)
b1328	Uprate the 3.63 mile line section between Possum and Dumfries substations, replace the 1600 amp wave trap at Possum Point	AEC (0.66%) / APS (3.59%) / DPL (0.91%) / Dominion (92.94%) / PECO (1.90%)
b1329	Install line-tie breakers at Sterling Park substation and BECO substation	Dominion (100%)
b1330	Install a five breaker ring bus at the expanded Dulles substation to accommodate the existing Dulles Arrangement and support the Metrorail	Dominion (100%)
b1331	Build a 230 kV line from Shawboro to Aydlett tap and connect Aydlett to the new line	Dominion (100%)
b1332	Build Cannon Branch to Nokesville 230 kV line	Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1333	Advance n1728 (Replace Possum Point 230 kV breaker H9T237 with an 80 kA breaker)	Dominion (100%)
b1334	Advance n1748 (Replace Ox 230 kV breaker 22042 with a 63 kA breaker)	Dominion (100%)
b1335	Advance n1749 (Replace Ox 230 kV breaker 220T2603 with a 63 kA breaker)	Dominion (100%)
b1336	Advance n1750 (Replace Ox 230 kV breaker 24842 with a 63 kA breaker)	Dominion (100%)
b1337	Advance n1751 (Replace Ox 230 kV breaker 248T2013 with a 63 kA breaker)	Dominion (100%)
b1503.1	Loop Line #2095 in and out of Waxpool approximately 1.5 miles	Dominion (100%)
b1503.2	Construct a new 230kV line from Brambleton to BECO Substation of approximately 11 miles with approximately 10 miles utilizing the vacant side of existing Line #2095 structures	Dominion (100%)
b1503.3	Install a one 230 kV breaker, Future 230 kV ring-bus at Waxpool Substation	Dominion (100%)
b1503.4	The new Brambleton - BECO line will feed Shellhorn Substation load and Greenway TX's #2&3 load	Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b1506.1	At Gainesville Substation, create two 115 kV straight-buses with a normally open tie-breaker		Dominion (100%)
b1506.2	Upgrade Line 124 (radial from Loudoun) to a minimum continuous rating of 500 MVA and network it into the 115 kV bus feeding NOVEC's DP at Gainesville		Dominion (100%)
b1506.3	Install two additional 230 kV breakers in the ring at Gainesville (may require substation expansion) to accommodate conversion of NOVEC's Gainesville to Wheeler line		Dominion (100%)
b1506.4	Convert NOVEC's Gainesville-Wheeler line from 115 kV to 230 kV (will require Gainesville DP Upgrade replacement of three transformers total at Atlantic and Wheeler Substations)		Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1507	Rebuild Mt Storm – Doubs 500 kV	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1508.1	Build a 2nd 230 kV Line Harrisonburg to Endless Caverns	APS (37.05%) / Dominion (62.95%)
b1508.2	Install a 3rd 230-115 kV Tx at Endless Caverns	APS (37.05%) / Dominion (62.95%)
b1508.3	Upgrade a 115 kV shunt capacitor banks at Merck and Edinburg	APS (37.05%) / Dominion (62.95%)
b1536	Advance n1752 (Replace OX 230 breaker 24342 with an (63kA breaker)	Dominion (100%)
b1537	Advance n1753 (Replace OX 230 breaker 243T2097 with an 63kA breaker)	Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1538	Replace Loudoun 230 kV breaker '29552'	Dominion (100%)
b1571	Replace Acca 115 kV breaker '6072' with 40 kA	Dominion (100%)
b1647	Upgrade the name plate rating at Morrisville 500kV breaker 'H1T573' with 50kA breaker	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1648	Upgrade name plate rating at Morrisville 500kV breaker 'H2T545' with 50kA breaker	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1649 Replace Morrisville 500kV breaker 'H1T580' with 50kA breaker		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1650 Replace Morrisville 500kV breaker 'H2T569' with 50kA breaker		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1651 Replace Loudoun 230kV breaker '295T2030' with 63kA breaker		Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1652	Replace Ox 230kV breaker '209742' with 63kA breaker	Dominion (100%)
b1653	Replace Clifton 230kV breaker '26582' with 63kA breaker	Dominion (100%)
b1654	Replace Clifton 230kV breaker '26682' with 63kA breaker	Dominion (100%)
b1655	Replace Clifton 230kV breaker '205182' with 63kA breaker	Dominion (100%)
b1656	Replace Clifton 230kV breaker '265T266' with 63kA breaker	Dominion (100%)
b1657	Replace Clifton 230kV breaker '2051T2063' with 63kA breaker	Dominion (100%)
b1694	Rebuild Loudoun - Brambleton 500 kV Rebuild Loudoun - Brambleton 500 kV	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1696	Install a breaker and a half scheme with a minimum of eight 230 kV breakers for five existing lines at Idylwood 230 kV	AEC (0.46%) / APS (4.18%) / BGE (2.02%) / DPL (0.80%) / Dominion (88.45%) / JCPL (0.64%) / ME (0.50%) / NEPTUNE* (0.06%) / PECO (1.55%) / PEPCO (1.34%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b1697	Build a 2nd Clark - Idylwood 230 kV line and install 230 kV gas-hybrid breakers at Clark		AEC (1.35%) / APS (15.65%) / BGE (10.53%) / DPL (2.59%) / Dominion (46.97%) / JCPL (2.36%) / ME (1.91%) / NEPTUNE* (0.23%) / PECO (4.48%) / PEPCO (11.23%) / PSEG (2.59%) / RE (0.11%)
b1698	Install a 2nd 500/230 kV transformer at Brambleton		APS (4.21%) / BGE (13.28%) / DPL (1.09%) / Dominion (59.38%) / PEPCO (22.04%)
b1698.1	Install a 500 kV breaker at Brambleton		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1698.6	Replace Brambleton 230 kV breaker '2094T2095'	Dominion (100%)
b1699	Reconfigure Line #203 to feed Edwards Ferry sub radial from Pleasant View 230 kV and install new breaker bay at Pleasant View Sub	Dominion (100%)
b1700	Install a 230/115 kV transformer at the new Liberty substation to relieve Gainesville Transformer #3	Dominion (100%)
b1701	Reconductor line #2104 (Fredericksburg - Cranes Corner 230 kV)	APS (8.66%) / BGE (10.95%) / Dominion (63.30%) / PEPSCO (17.09%)
b1724	Install a 2nd 138/115 kV transformer at Edinburg	Dominion (100%)
b1728	Replace the 115/34.5 kV transformer #1 at Hickory with a 230/34.5 kV transformer	Dominion (100%)
b1729	Add 4 breaker ring bus at Burton 115 kV substation and construct a 115 kV line approximately 3.5 miles from Oakwood 115 kV substation to Burton 115 kV substation	Dominion (100%)

* Neptune Regional Transmission System, LLC

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1730	Install a 230/115 kV transformer at a new Liberty substation	Dominion (100%)
b1731	Uprate or rebuild Four Rivers – Kings Dominion 115 kV line or Install capacitors or convert load from 115 kV system to 230 kV system	Dominion (100%)
b1790	Split Wharton 115 kV capacitor bank into two smaller units and add additional reactive support in area by correcting power factor at Pantego 115 kV DP and FivePoints 115 kV DP to minimum of 0.973	Dominion (100%)
b1791	Wreck and rebuild 2.1 mile section of Line #11 section between Gordonsville and Somerset	APS (5.83%) / BGE (6.25%) / Dominion (78.38%) / PEPCO (9.54%)
b1792	Rebuild line #33 Halifax to Chase City, 26 miles. Install 230 kV 4 breaker ring bus	Dominion (100%)
b1793	Wreck and rebuild remaining section of Line #22, 19.5 miles and replace two pole H frame construction built in 1930	Dominion (100%)
b1794	Split 230 kV Line #2056 (Hornertown - Rocky Mount) and double tap line to Battleboro Substation. Expand station, install a 230 kV 3 breaker ring bus and install a 230/115 kV transformer	Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1795	Reconductor segment of Line #54 (Carolina to Woodland 115 kV) to a minimum of 300 MVA	Dominion (100%)
b1796	Install 115 kV 25 MVAR capacitor bank at Kitty Hawk Substation	Dominion (100%)
b1797	Wreck and rebuild 7 miles of the Dominion owned section of Cloverdale - Lexington 500 kV	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1798	Build a 450 MVAR SVC and 300 MVAR switched shunt at Loudoun 500 kV	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1799	Build 150 MVAR Switched Shunt at Pleasant View 500 kV	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1805	Install a 250 MVAR SVC at the existing Mt. Storm 500kV substation	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1809	Replace Brambleton 230 kV Breaker '22702'	Dominion (100%)
b1810	Replace Brambleton 230 kV Breaker '227T2094'	Dominion (100%)

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b1905.1	Surry to Skiffes Creek 500 kV Line (7 miles overhead)		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1905.2	Surry 500 kV Station Work		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1905.3	Skiffes Creek 500-230 kV Tx and Switching Station		Dominion (99.84%) / PEPCO (0.16%)
b1905.4	New Skiffes Creek - Whealton 230 kV line		Dominion (99.84%) / PEPCO (0.16%)
b1905.5	Whealton 230 kV breakers		Dominion (99.84%) / PEPCO (0.16%)

* Neptune Regional Transmission System, LLC

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

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1905.6	Yorktown 230 kV work	Dominion (99.84%) / PEPCO (0.16%)
b1905.7	Lanexa 115 kV work	Dominion (99.84%) / PEPCO (0.16%)
b1905.8	Surry 230 kV work	Dominion (99.84%) / PEPCO (0.16%)
b1905.9	Kings Mill, Peninmen, Toano, Waller, Warwick	Dominion (99.84%) / PEPCO (0.16%)
b1906.1	At Yadkin 500 kV, install six 500 kV breakers	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1906.2	Install a 2nd 230/115 kV TX at Yadkin	Dominion (100%)
b1906.3	Install a 2nd 230/115 kV TX at Chesapeake	Dominion (100%)
b1906.4	Uprate Yadkin – Chesapeake 115 kV	Dominion (100%)
b1906.5	Install a third 500/230 kV TX at Yadkin	Dominion (100%)
b1907	Install a 3rd 500/230 kV TX at Clover	APS (5.83%) / BGE (4.74%) / Dominion (81.79%) / PEPCO (7.64%)

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

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1908	Rebuild Lexington – Dooms 500 kV	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1909	Uprate Brems – Midlothian 230 kV to its maximum operating temperature	APS (6.31%) / BGE (3.81%) / Dominion (81.90%) / PEPCO (7.98%)
b1910	Build a Suffolk – Yadkin 230 kV line (14 miles) and install 4 breakers	Dominion (100%)
b1911	Add a second Valley 500/230 kV TX	APS (14.85%) / BGE (3.10%) / Dominion (74.12%) / PEPCO (7.93%)
b1912	Install a 500 MVAR SVC at Landstown 230 kV	DEOK (0.46%) / Dominion (99.54%)
b2053	Rebuild 28 mile line	AEP (100%)
b2125	Install four additional 230 kV 100 MVAR variable shunt reactor banks at Clifton, Gallows Road, Garrisonville, and Virginia Hills substations	Dominion (100%)
b2126	Install two additional 230 kV 100 MVAR variable shunt reactor banks at Churchland and Shawboro substations	Dominion (100%)

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

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Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2181	Add a motor to an existing switch at Prince George to allow for Sectionalizing scheme for line #2124 and allow for Brickhouse DP to be re-energized from the 115 kV source	Dominion (100%)
b2182	Install 230kV 4-breaker ring at Enterprise 230 kV to isolate load from transmission system when substation initially built	Dominion (100%)
b2183	Add a motor to an existing switch at Keene Mill to allow for a sectionalizing scheme	Dominion (100%)
b2184	Install a 230 kV breaker at Tarboro to split line #229. Each will feed an autotransformer at Tarboro. Install switches on each autotransformer	Dominion (100%)
b2185	Uprate Line #69 segment Reams DP to Purdy (19 miles) from 41 MVA to 162 MVA by replacing 5 structures and re-sagging the line from 50C to 75C	Dominion (100%)
b2186	Install a 2nd 230-115kV transformer at Earleys connected to the existing 115kV and 230kV ring busses. Add a 115 kV breaker and 230kV breaker to the ring busses	Dominion (100%)
b2187	Install 4 - 230kV breakers at Shellhorn 230 kV to isolate load	Dominion (100%)

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

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 63kA rating		Dominion (100%)
b1696.1	<i>Replace the Idylwood 230 kV '25112' breaker with 50kA breaker</i>		<i>Dominion (100%)</i>
b1696.2	<i>Replace the Idylwood 230 kV '209712' breaker with 50kA breaker</i>		<i>Dominion (100%)</i>
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.)

<i>Required Transmission Enhancements</i>	<i>Annual Revenue Requirement</i>	<i>Responsible Customer(s)</i>
b2368	Replace the Brambleton 230 kV breaker '209502' with 63kA breaker	Dominion (100%)
b2369	Replace the Brambleton 230 kV breaker '213702' with 63kA breaker	Dominion (100%)
b2370	Replace the Brambleton 230 kV breaker 'H302' with 63kA breaker	Dominion (100%)

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

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2373	Build a 2nd Loudoun - Brambleton 500 kV line within the existing ROW. The Loudoun - Brambleton 230 kV line will be relocated as an underbuild on the new 500 kV line	<i>Dominion (100%)</i>
b2397	Replace the Beaumeade 230 kV breaker '2079T2116' with 63kA	Dominion (100%)
b2398	Replace the Beaumeade 230 kV breaker '2079T2130' with 63kA	Dominion (100%)
b2399	Replace the Beaumeade 230 kV breaker '208192' with 63kA	Dominion (100%)
b2400	Replace the Beaumeade 230 kV breaker '209592' with 63kA	Dominion (100%)
b2401	Replace the Beaumeade 230 kV breaker '211692' with 63kA	Dominion (100%)
b2402	Replace the Beaumeade 230 kV breaker '227T2130' with 63kA	Dominion (100%)
b2403	Replace the Beaumeade 230 kV breaker '274T2130' with 63kA	Dominion (100%)

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Virginia Electric and Power Company (cont.)

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

Virginia Electric and Power Company (cont.)

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

Virginia Electric and Power Company (cont.)

Required 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>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: 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 50kA breaker	Dominion (100%)
b2543	Replace the Loudoun 500 kV ‘H2T584’ breaker with a 50kA breaker	Dominion (100%)
b2565	Reconductor wave trap at Carver Substation with a 2000A wave trap	Dominion (100%)
b2566	Reconductor 1.14 miles of existing line between ACCA and Hermitage and upgrade associated terminal equipment	Dominion (100%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2582	Rebuild the Elmont – Cunningham 500 kV line	Dominion (100%)
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	DFAX Allocation: PEPCO (100%)
b2620	Wreck and rebuild the Chesapeake – Deep Creek – Bowers Hill – Hodges Ferry 115 kV line; minimum rating 239 MVA normal/emergency, 275 MVA load dump rating	Dominion (100%)

Virginia Electric and Power Company (cont.)

Required 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%)
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%)

Virginia Electric and Power Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2665	Rebuild the Cunningham – Dooms 500 kV line		Dominion (100%)
b2686	Pratts Area Improvement		Dominion (100%)
b2686.1	Build a 230 kV line from Remington Substation to Gordonsville Substation utilizing existing ROW		Dominion (100%)
b2686.11	Upgrading sections of the Gordonsville – Somerset 115 kV circuit		Dominion (100%)
b2686.12	Upgrading sections of the Somerset – Doubleday 115 kV circuit		Dominion (100%)
b2686.13	Upgrading sections of the Orange – Somerset 115 kV circuit		Dominion (100%)
b2686.14	Upgrading sections of the Mitchell – Mt. Run 115 kV circuit		Dominion (100%)
b2686.2	Install a 3rd 230/115 kV transformer at Gordonsville Substation		Dominion (100%)

*Neptune Regional Transmission System, LLC

** East Coast Power, LLC

***Hudson Transmission Partners, LLC

Virginia Electric and Power Company (cont.)

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

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>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: Dominion (100%)</p>
b2745	Rebuild 21.32 miles of existing line between Chesterfield – Lakeside 230 kV		Dominion (100%)
b2746.1	<i>Rebuild Line #137 Ridge Rd – Kerr Dam 115 kV, 8.0 miles, for 346 MVA summer emergency rating</i>		<i>Dominion (100%)</i>
b2746.2	<i>Rebuild Line #1009 Ridge Rd – Chase City 115 kV, 9.5 miles, for 346 MVA summer emergency rating</i>		<i>Dominion (100%)</i>
b2746.3	<i>Install a second 4.8 MVAR capacitor bank on the 13.8 kV bus of each transformer at Ridge Rd</i>		<i>Dominion (100%)</i>
b2747	<i>Install a Motor Operated Switch and SCADA control between Dominion’s Gordonsville 115 kV bus and FirstEnergy’s 115 kV line</i>		<i>Dominion (100%)</i>

Attachment 7c (PATH OATT)

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)	As specified under the procedures detailed in Attachment H-19B AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0492	Construct a Welton Spring to Kemptown 765 kV line (APS equipment)	As specified under the procedures detailed in Attachment H-19B AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
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

**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)
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%)
b0545	Remove instantaneous reclose from Eastalco circuit breaker D-28	APS (100%)
b0559	Install 200 MVAR capacitor at Meadow Brook 500 kV substation	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0560	Install 250 MVAR capacitor at Kemptown 500 kV substation	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

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

SCHEDULE 12 – APPENDIX

(17) AEP Service Corporation on behalf of its Affiliate Companies (AEP Indiana Michigan Transmission Company, AEP Kentucky Transmission Company, AEP Ohio Transmission Company, AEP West Virginia Transmission Company, Appalachian Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0318	Install a 765/138 kV transformer at Amos	AEP (99.00%) / PEPCO (1.00%)
b0324	Replace entrance conductors, wave traps, and risers at the Tidd 345 kV station on the Tidd – Canton Central 345 kV circuit	AEP (100%)
b0447	Replace Cook 345 kV breaker M2	AEP (100%)
b0448	Replace Cook 345 kV breaker N2	AEP (100%)
b0490	Construct an Amos – Bedington 765 kV circuit (AEP equipment)	As specified under the procedures detailed in Attachment H-19B AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

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

Attachment 7d (TrailCo OATT)

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	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0218 Install third Wylie Ridge 500/345kV 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

** 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)
b0238 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 Open the Black Oak #3 500/138 kV transformer for the loss of Hatfield – Back Oak 500 kV line		APS (100%)
b0245 Replacement of the existing 954 ACSR conductor on the Bedington – Nipetown 138 kV line with high temperature/low sag conductor		APS (100%)
b0246 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 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 Convert Lime Kiln substation to 230 kV operation		APS (100%)
b0323 Replace the North Shenandoah 138/115 kV transformer	As specified under the procedures detailed in Attachment H-18B, Section 1.b	APS (100%)

* Neptune Regional Transmission System, LLC

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

† Cost allocations associated with Regional Facilities and Necessary Lower Voltage Facilities associated with the project

†† Cost allocations associated with below 500 kV elements of the project

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)	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0343 Replace Doubs 500/230 kV transformer #2	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (1.85%) / BGE (21.49%) / DPL (3.91%) / Dominion (28.86%) / ME (2.97%) / PECO (5.73%) / PEPCO (35.19%)
b0344 Replace Doubs 500/230 kV transformer #3	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (1.86%) / BGE (21.50%) / DPL (3.91%) / Dominion (28.82%) / ME (2.97%) / PECO (5.74%) / PEPCO (35.20%)
b0345 Replace Doubs 500/230 kV transformer #4	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (1.85%) / BGE (21.49%) / DPL (3.90%) / Dominion (28.83%) / ME (2.98%) / PECO (5.75%) / PEPCO (35.20%)

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	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.2 Build new Mt. Storm – Meadow Brook 500 kV circuit	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

** 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)
b0347.3	Build new 502 Junction 500 kV substation	As specified under the procedures detailed in Attachment H-18B, Section 1.b
b0347.4	Upgrade Meadow Brook 500 kV substation	As specified under the procedures detailed in Attachment H-18B, Section 1.b

AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

** 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)
b0347.5	Replace Harrison 500 kV breaker HL-3	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.6	Upgrade (per ABB inspection) breaker HL-6	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.8	Upgrade (per ABB inspection) breaker HL-8	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

*Neptune Regional Transmission System, LLC

**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)
b0347.9	Upgrade (per ABB inspection) breaker HL-10	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.10	Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-1	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

*Neptune Regional Transmission System, LLC

**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)
b0347.11	Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-3		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.12	Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-4		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

*Neptune Regional Transmission System, LLC

**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)
b0347.13	Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-6	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.14	Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-7	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

*Neptune Regional Transmission System, LLC

**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)
b0347.15	Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-9	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.16	Upgrade (per ABB inspection) Harrison 500 kV breaker 'HL-3'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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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)
b0347.17	Replace Meadow Brook 138 kV breaker 'MD-10'		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.18	Replace Meadow Brook 138 kV breaker 'MD-11'		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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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)
b0347.19	Replace Meadow Brook 138 kV breaker 'MD-12'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.20	Replace Meadow Brook 138 kV breaker 'MD-13'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

*Neptune Regional Transmission System, LLC

**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)
b0347.21	Replace Meadow Brook 138 kV breaker 'MD-14'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.22	Replace Meadow Brook 138 kV breaker 'MD-15'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.23	Replace Meadow Brook 138 kV breaker 'MD-16'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.24	Replace Meadow Brook 138 kV breaker 'MD-17'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.25	Replace Meadow Brook 138 kV breaker 'MD-18'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.26	Replace Meadow Brook 138 kV breaker 'MD-22#1 CAP'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

*Neptune Regional Transmission System, LLC

**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)
b0347.27	Replace Meadow Brook 138 kV breaker 'MD-4'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.28	Replace Meadow Brook 138 kV breaker 'MD-5'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.29	Replace Meadowbrook 138 kV breaker 'MD-6'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

*Neptune Regional Transmission System, LLC

**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)
b0347.30	Replace Meadowbrook 138 kV breaker 'MD-7'		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.31	Replace Meadowbrook 138 kV breaker 'MD-8'		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

*Neptune Regional Transmission System, LLC

**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)
b0347.32	Replace Meadowbrook 138 kV breaker 'MD-9'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0347.33	Replace Meadow Brook 138kV breaker 'MD-1'	APS (100%)
b0347.34	Replace Meadow Brook 138kV 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	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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%)

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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)
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 138kV 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 (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0419	Install a breaker failure auto-restoration scheme at Bedington 500 kV for the failure of the #1 and #2 breakers	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
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 138kV circuit with 954 ACSR	APS (100%)

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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 AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0492	Construct a Welton Spring to Kemptown 765 kV line (APS equipment)	As specified under the procedures detailed in Attachment H-19B AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0492.3	Replace Eastalco 230 kV breaker D-26	APS (100%)
b0492.4	Replace Eastalco 230 kV breaker D-28	APS (100%)

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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)
b0492.5	Replace Eastalco 230 kV breaker D-31	APS (100%)
b0495	Replace existing Kammer 765/500 kV transformer with a new larger transformer	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
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%)

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	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
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%)

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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)

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 - Catocin 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) 230kV	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) 230kV	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 138kV 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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**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)
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%)

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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)

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%)

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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)

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	Reconductor the Eastgate – Luxor 138 kV; Eastgate – Sony 138 kV line with 954 ACSR	APS (78.59%) / PENELEC (14.08%) / ECP ** (0.23%) / PSEG (6.83%) / RE (0.27%)
b1138	Reconductor the King Farm – Sony 138 kV line with 954 ACSR	APS (100%)
b1139	Reconductor the Yukon – Waltz Mills 138 kV line with high temperature conductor	APS (100%)
b1140	Reconductor the Bracken Junction – Luxor 138 kV line with 954 ACSR	APS (100%)
b1141	Reconductor the Sewickley – Waltz Mills Tap 138 kV line with high temperature conductor	APS (100%)
b1142	Reconductor the Bartonsville – Stephenson 138 kV; Stonewall – Stephenson 138 kV line with 954 ACSR	APS (100%)
b1143	Reconductor the Youngwood – Yukon 138 kV line with high temperature conductor	APS (89.92%) / PENELEC (10.08%)
b1144	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 (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
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%)

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***Hudson Transmission Partners, 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%) / 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%)

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	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
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%)

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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)
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%)
b0545	Remove instantaneous reclose from Eastalco circuit breaker D-28	APS (100%)
b0559	Install 200 MVAR capacitor at Meadow Brook 500 kV substation	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0560	Install 250 MVAR capacitor at Kemptown 500 kV substation	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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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)
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		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1804	Install a new 600 MVAR SVC at Meadowbrook 500kV		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1816.1	Replace relaying at the Mt. Airy substation on the Carroll - Mt. Airy 230 kV line		APS (100%)

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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)
b1816.2	Adjust the control settings of all existing capacitors at Mt Airy 34.5kV, Monocacy 138kV, Ringgold 138kV served by Potomac Edison's Eastern 230 kV network to ensure that all units will be on during the identified N-1-1 contingencies	
b1816.3	Replace existing unidirectional LTC controller on the No. 4, 230/138 kV transformer at Carroll substation with a bidirectional unit	
b1816.4	Isolate and bypass the 138 kV reactor at Germantown Substation	
b1816.6	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	

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	
b1823	Replace the 800 A wave trap with a 1200 A wave trap at Millville 138 kV substation	
b1824	Reconductor Grant Point - Guilford 138kV line approximately 8 miles of 556 ACSR with 795 ACSR	
b1825	Replace the 800 Amp line trap at Butler 138 kV Sub on the Cabot East 138 kV line	
b1826	Change the CT ratio at Double Toll Gate 138 kV SS on MDT line	
b1827	Change the CT ratio at Double Toll Gate 138 kV SS on MBG line	
b1828.1	Reconductor the Bartonville – Stephenson 3.03 mile 138 kV line of 556 ACSR with 795 ACSR	

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%)

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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)

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%)

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 63kA 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 40kA rated breaker	APS (100%)
b2099	Revise the reclosing of Ridgeley 138 kV breaker 'RC1'	APS (100%)
b2100	Replace Ridgeley 138 kV breaker 'WC4' with 40kA rated breaker	APS (100%)
b2101	Replace Ridgeley 138 kV breaker '1 XFMR OCB' with 40kA rated breaker	APS (100%)
b2102	Replace Armstrong 138 kV breaker 'GARETTRJCT' with 40kA rated breaker	APS (100%)

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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)
b2103	Replace Armstrong 138 kV breaker 'BURMA' with 40kA rated breaker	APS (100%)
b2104	Replace Armstrong 138 kV breaker 'KITTING' with 40kA rated breaker	APS (100%)
b2105	Replace Armstrong 138 kV breaker 'KISSINGERJCT' with 40kA rated breaker	APS (100%)
b2106	Replace Wylie Ridge 345 kV breaker 'WK-1' with 63kA rated breaker	APS (100%)
b2107	Replace Wylie Ridge 345 kV breaker 'WK-2' with 63kA rated breaker	APS (100%)
b2108	Replace Wylie Ridge 345 kV breaker 'WK-3' with 63kA rated breaker	APS (100%)
b2109	Replace Wylie Ridge 345 kV breaker 'WK-4' with 63kA rated breaker	APS (100%)
b2110	Replace Wylie Ridge 345 kV breaker 'WK-6' with 63kA rated breaker	APS (100%)
b2111	Replace Wylie Ridge 138 kV breaker 'WK-7' with 63kA 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 63kA 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 138kV 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 138kV Capacitor bank adjust turn-on voltage to 1.0pu with a high limit of 1.04pu, For Crupperneck and Powell Mountain 138kV Capacitor Banks adjust turn-on voltage to 1.01pu with a high limit of 1.035pu	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%)

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) 138kV 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%)
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%)
<i>b2763</i>	<i>Replace the breaker risers and wave trap at Bredinville 138 kV substation on the Cabrey Junction 138 kV terminal</i>	<i>APS (100%)</i>
<i>b2764</i>	<i>Upgrade Fairview 138 kV breaker risers and disconnect leads; Replace 500 CU breaker risers and 556 ACSR disconnect leads with 795 ACSR</i>	<i>APS (100%)</i>

Attachment 7e (Delmarva OATT)

SCHEDULE 12 – APPENDIX

(3) Delmarva Power & Light Company

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0144.1	Build new Red Lion – Milford – Indian River 230 kV circuit	DPL (100%)
b0144.2	Indian River Sub – 230 kV Terminal Position	DPL (100%)
b0144.3	Red Lion Sub – 230 kV Terminal Position	DPL (100%)
b0144.4	Milford Sub – (2) 230 kV Terminal Positions	DPL (100%)
b0144.5	Indian River – 138 kV Transmission Line to AT-20	DPL (100%)
b0144.6	Indian River – 138 & 69 kV Transmission Ckts. Undergrounding	DPL (100%)
b0144.7	Indian River – (2) 230 kV bus ties	DPL (100%)
b0148	Re-rate Glasgow – Mt. Pleasant 138 kV and North Seaford – South Harrington 138 kV	DPL (100%)
b0149	Complete structure work to increase rating of Cheswold – Jones REA 138 kV	DPL (100%)
b0221	Replace disconnect switch on Edgewood-N. Salisbury 69 kV	DPL (100%)
b0241.1	Keeny Sub – Replace overstressed breakers	DPL (100%)
b0241.2	Edgemoor Sub – Replace overstressed breakers	DPL (100%)
b0241.3	Red Lion Sub – Substation reconfigure to provide for second Red Lion 500/230 kV transformer	DPL (84.5%) / PECO (15.5%)
b0261	Replace 1200 Amp disconnect switch on the Red Lion – Reybold 138 kV circuit	DPL (100%)

Delmarva Power & Light Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0262	Reconductor 0.5 miles of Christiana – Edgemoor 138 kV	DPL (100%)
b0263	Replace 1200 Amp wavetrap at Indian River on the Indian River – Frankford 138 kV line	DPL (100%)
b0272.1	Replace line trap and disconnect switch at Keeney 500 kV substation – 5025 Line Terminal Upgrade	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0282	Install 46 MVAR capacitors on the DPL distribution system	DPL (100%)
b0291	Replace 1600A disconnect switch at Harmony 230 kV and for the Harmony – Edgemoor 230 kV circuit, increase the operating temperature of the conductor	DPL (100%)
b0295	Raise conductor temperature of North Seaford – Pine Street – Dupont Seaford	DPL (100%)

**Neptune Regional Transmission System, LLC*

***East Coast Power, LLC*

****Hudson Transmission Partners, LLC*

Delmarva Power & Light Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0296	Rehoboth/Cedar Neck Tap (6733-2) upgrade	DPL (100%)
b0320	Create a new 230 kV station that splits the 2 nd Milford to Indian River 230 kV line, add a 230/69 kV transformer, and run a new 69 kV line down to Harbeson 69 kV	DPL (100%)
b0382	Cambridge Sub – Close through to Todd Substation	DPL (100%)
b0383	Wye Mills AT-1 and AT-2 138/69 kV Replacements	DPL (100%)
b0384	Replace Indian River AT-20 (400 MVA)	DPL (100%)
b0385	Oak Hall to New Church (13765) Upgrade	DPL (100%)
b0386	Cheswold/Kent (6768) Rebuild	DPL (100%)
b0387	N. Seaford – Add a 2 nd 138/69 kV autotransformer	DPL (100%)
b0388	Hallwood/Parksley (6790-2) Upgrade	DPL (100%)
b0389	Indian River AT-1 and AT-2 138/69 kV Replacements	DPL (100%)
b0390	Rehoboth/Lewes (6751-1 and 6751-2) Upgrade	DPL (100%)
b0391	Kent/New Meredith (6704-2) Upgrade	DPL (100%)
b0392	East New Market Sub – Establish a 69 kV Bus Arrangement	DPL (100%)
b0415	Increase the temperature ratings of the Edgemoor – Christiana – New Castle 138 kV by replacing six transmission poles	DPL (100%)

Delmarva Power & Light Company (cont.)

Required	Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0437	Spare Keeney 500/230 kV transformer		DPL (100%)
b0441	Additional spare Keeney 500/230 kV transformer		DPL (100%)
b0480	Rebuild Lank – Five Points 69 kV		DPL (100%)
b0481	Replace wave trap at Indian River 138 kV on the Omar – Indian River 138 kV circuit		DPL (100%)
b0482	Rebuild Millsboro – Zoar REA 69 kV		DPL (100%)
b0483	Replace Church 138/69 kV transformer and add two breakers		DPL (100%)
b0483.1	Build Oak Hall – Wattsville 138 kV line		DPL (100%)
b0483.2	Add 138/69 kV transformer at Wattsville		DPL (100%)
b0483.3	Establish 138 kV bus position at Oak Hall		DPL (100%)
b0484	Re-tension Worcester – Berlin 69 kV for 125°C		DPL (100%)
b0485	Re-tension Taylor – North Seaford 69 kV for 125°C		DPL (100%)
b0494.1	Install a 2 nd Red Lion 230/138 kV		DPL (100%)
b0494.2	Hares Corner – Relay Improvement		DPL (100%)
b0494.3	Reybold – Relay Improvement		DPL (100%)
b0494.4	New Castle – Relay Improvement		DPL (100%)

Delmarva Power & Light Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512	MAPP Project – install new 500 kV transmission from Possum Point to Calvert Cliffs and install a DC line from Calvert Cliffs to Vienna and a DC line from Calvert Cliffs to Indian River	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0513	Rebuild the Ocean Bay – Maridel 69 kV line	DPL (100%)
b0527	Replace existing 12 MVAR capacitor at Bethany with a 30 MVAR capacitor	DPL (100%)
b0528	Replace existing 69/12 kV transformer at Bethany with a 138/12 kV transformer	DPL (100%)
b0529	Install an additional 8.4 MVAR capacitor at Grasonville 69 Kv	DPL (100%)
b0530	Replace existing 12 MVAR capacitor at Wye Mills with a 30 MVAR capacitor	DPL (100%)

Delmarva Power & Light Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0531	Create a four breaker 138 kV ring bus at Wye Mills and add a second 138/69 kV transformer	DPL (100%)
b0566	Rebuild the Trappe Tap – Todd 69 kV line	DPL (100%)
b0567	Rebuild the Mt. Pleasant – Townsend 138 kV line	DPL (100%)
b0568	Install a third Indian River 230/138 kV transformer	DPL (100%)
b0725	Add a third Steele 230/138 kV transformer	DPL (100%)
b0732	Rebuild Vaugh – Wells 69 kV	DPL (100%)
b0733	Add a second 230/138 kV transformer at Harmony	DPL (97.06%) / PECO (2.94%)
b0734	Rebuild Church – Steele 138 kV	DPL (100%)
b0735	Rebuild Indian River – Omar – Bethany 138 kV	DPL (100%)
b0736	Rebuild Dupont Edgemoor – Edgemoor – Silverside 69 kV	DPL (69.46%) / PECO (17.25%) / ECP** (0.27%) / PSEG (12.53%) / RE (0.49%)
b0737	Build a new Indian River – Bishop 138 kV line	DPL (100%)
b0750	Convert 138 kV network path from Vienna – Loretto – Piney - Grove to 230 kV, add 230/138 kV transformer to Loretto 230 kV	DPL (100%)

Delmarva Power & Light Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0751	Add two additional breakers at Keeney 500 kV	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0752	Replace two circuit breakers to bring the emergency rating up to 348 MVA	DPL (100%)
b0753	Add a second Loretto 230/138 kV transformer	DPL (100%)
b0754	Rebuild 10 miles of Glasgow to Mt. Pleasant 138 kV line to bring the normal rating to 298 MVA and the emergency rating to 333 MVA	DPL (100%)
b0792	Reconfigure Cecil Sub into 230 and 138 kV ring buses, add a 230/138 kV transformer, and operate the 34.5 kV bus normally open	DPL (100%)
b0873	Build 2nd Glasgow-Mt Pleasant 138 kV line	DPL (100%)
b0874	Reconfigure Brandywine substation	DPL (100%)

**Neptune Regional Transmission System, LLC*

***East Coast Power, LLC*

****Hudson Transmission Partners, LLC*

Delmarva Power & Light Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0876	Install 50 MVAR SVC at 138th St 138 kV	DPL (100%)
b0877	Build a 2nd Vienna-Steele 230 kV line	DPL (100%)
b0879.1	Apply a special protection scheme (load drop at Stevensville and Grasonville)	DPL (100%)
b1246	Re-build the Townsend – Church 138 kV circuit	DPL (100%)
b1247	Re-build the Glasgow – Cecil 138 kV circuit	DPL (72.06%) / PECO (27.94%)
b1248	Install two 15 MVAR capacitor at Loretto 69 kV	DPL (100%)
b1249	Reconfigure the existing Sussex 69 kV capacitor	DPL (100%)
b1603	Upgrade 19 miles conductor of the Wattsville - Signepost - Stockton - Kenney 69 kV circuit	DPL (100%)
b1604	Replace CT at Reybold 138 kV substation	DPL (100%)
b1723	Replace strand bus and disconnect switch at Glasgow 138 kV substation	DPL (100%)
b1899.1	Install new variable reactors at Indian River and Nelson 138 kV	DPL (100%)

* Neptune Regional Transmission System, LLC

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

****Hudson Transmission Partners, LLC*

The Annual Revenue Requirement associated with the Transmission Enhancement Charges are set forth and determined in Appendix A to Attachment H-3.

Delmarva Power & Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b1899.2	Install new variable reactors at Cedar Creek 230 kV		DPL (100%)
b1899.3	Install new variable reactors at New Castle 138 kV and Easton 69 kV		DPL (100%)

SCHEDULE 12 – APPENDIX A

(3) Delmarva Power & Light Company

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2288	Build a new 138kV 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	Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
		DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.10	Interconnect the new Silver Run 230 kV substation with existing Red Lion – Cartanza and Red Lion – Cedar Creek 230 kV lines	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)

*Neptune Regional Transmission System, LLC

**East Coast Power, LLC

***Hudson Transmission Partners, 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%)
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Attachment 7f (ACE OATT)

SCHEDULE 12 – APPENDIX

(1) Atlantic City Electric Company

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0135	Build new Cumberland – Dennis 230 kV circuit which replaces existing Cumberland – Corson 138 kV	AEC (100%)
b0136	Install Dennis 230/138 kV transformer, Dennis 150 MVAR SVC and 50 MVAR capacitor	AEC (100%)
b0137	Build new Dennis – Corson 138 kV circuit	AEC (100%)
b0138	Install Cardiff 230/138 kV transformer and a 50 MVAR capacitor at Cardiff	AEC (100%)
b0139	Build new Cardiff – Lewis 138 kV circuit	AEC (100%)
b0140	Reconductor Laurel – Woodstown 69 kV	AEC (100%)
b0141	Reconductor Monroe – North Central 69 kV	AEC (100%)
b0265	Upgrade AE portion of Delco Tap – Mickleton 230 kV circuit	AEC (89.87%) / JCPL (9.48%) / Neptune* (0.65%)
b0276	Replace both Monroe 230/69 kV transformers	AEC (91.28%) / PSEG (8.29%) / RE (0.23%) / ECP** (0.20%)
b0276.1	Upgrade a strand bus at Monroe to increase the rating of transformer #2	AEC (100%)
b0277	Install a second Cumberland 230/138 kV transformer	AEC (100%)
b0281.1	Install 35 MVAR capacitor at Lake Ave 69 kV substation	AEC (100%)

Atlantic City Electric Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0281.2	Install 15 MVAR capacitor at Shipbottom 69 kV substation	AEC (100%)
b0281.3	Install 8 MVAR capacitors on the AE distribution system	AEC (100%)
b0142	Reconductor Landis – Minotola 138 kV	AEC (100%)
b0143	Reconductor Beckett – Paulsboro 69 kV	AEC (100%)
b0210	Install a new 500/230kV substation in AEC area. The high side will be tapped on the Salem - East Windsor 500kV circuit and the low side will be tapped on the Churchtown - Cumberland 230kV circuit.	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0210.1	Orchard – Cumberland – Install second 230 kV line	AEC (65.23%) / JCPL (25.87%) / Neptune* (2.55%) / PSEG (6.35%)††
b0210.2	Install a new 500/230kV substation in AEC area, the high side will be tapped on the Salem - East Windsor 500kV circuit and the low side will be tapped on the Churchtown - Cumberland 230kV circuit.	AEC (65.23%) / JCPL (25.87%) / Neptune* (2.55%) / PSEG (6.35%)††

* Neptune Regional Transmission System, LLC

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

† Cost allocations associated with Regional Facilities and Necessary Lower Voltage Facilities associated with the project

†† Cost allocations associated with below 500 kV elements of the project

The Annual Revenue Requirement associated with the Transmission Enhancement Charges are set forth and determined in Appendix A to Attachment H-1.

Atlantic City Electric Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0211	Reconductor Union - Corson 138kV circuit	AEC (65.23%) / JCPL (25.87%) / Neptune* (2.55%) / PSEG (6.35%)
b0212	Substation upgrades at Union and Corson 138kV	AEC (65.23%) / JCPL (25.87%) / Neptune* (2.55%) / PSEG (6.35%)
b0214	Install 50 MVAR capacitor at Cardiff 230kV substation	AEC (100%)
b0431	Monroe Upgrade New Freedom strand bus	AEC (100%)
b0576	Move the Monroe 230/69 kV to Mickleton	AEC (100%)
b0744	Upgrade a strand bus at Mill 138 kV	AEC (100%)
b0871	Install 35 MVAR capacitor at Motts Farm 69 kV	AEC (100%)
b1072	Modify the existing EMS load shedding scheme at Cedar to additionally sense the loss of both Cedar 230/69 kV transformers and shed load accordingly	AEC (100%)
b1127	Build a new Lincoln-Minitola 138 kV line	AEC (100%)
b1195.1	Upgrade the Corson sub T2 terminal	AEC (100%)
b1195.2	Upgrade the Corson sub T1 terminal	AEC (100%)

Atlantic City Electric Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1244	Install 10 MVAR capacitor at Peermont 69 kV substation	AEC (100%)
b1245	Rebuild the Newport-South Millville 69 kV line	AEC (100%)
b1250	Reconductor the Monroe – Glassboro 69 kV	AEC (100%)
b1250.1	Upgrade substation equipment at Glassboro	AEC (100%)
b1280	Sherman: Upgrade 138/69 kV transformers	AEC (100%)
b1396	Replace Lewis 138 kV breaker ‘L’	AEC (100%)
b1398.5	Reconductor the existing Mickleton – Goucestr 230 kV circuit (AE portion)	JCPL (12.82%) / NEPTUNE (1.18%) / HTP (0.79%) / PECO (51.08%) / PEPCO (0.57%) / ECP** (0.85%) / PSEG (31.46%) / RE (1.25%)
b1598	Reconductor Sherman Av – Carl’s Corner 69kV circuit	AEC (100%)
b1599	Replace terminal equipments at Central North 69 kV substation	AEC (100%)
b1600	Upgrade the Mill T2 138/69 kV transformer	AEC (88.83%) / JCPL (4.74%) / HTP (0.20%) / ECP** (0.22%) / PSEG (5.78%) / RE (0.23%)
b2157	Re-build 5.3 miles of the Corson - Tuckahoe 69 kV circuit	AEC (100%)

* Neptune Regional Transmission System, LLC

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

The Annual Revenue Requirement associated with the Transmission Enhancement Charges are set forth and determined in Appendix A to Attachment H-1.

Attachment 7g (PEPCO OATT)

SCHEDULE 12 – APPENDIX

(10) Potomac Electric Power Company

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0146	Installation of (2) new 230 kV circuit breakers at Quince Orchard substation on circuits 23028 and 23029	PEPCO (100%)
b0219	Install two new 230 kV circuits between Palmers Corner and Blue Plains	PEPCO (100%)
b0228	Upgrade Burtonsville – Sandy Springs 230 kV circuit	PEPCO (100%)
b0238.1	Modify Dickerson Station H 230 kV	PEPCO (100%)
b0251	Install 100 MVAR of 230 kV capacitors at Bells Mill	PEPCO (100%)
b0252	Install 100 MVAR of 230 kV capacitors at Bells Mill	PEPCO (100%)
b0288	Brighton Substation – add 2 nd 1000 MVA 500/230 kV transformer, 2 500 kV circuit breakers and miscellaneous bus work	BGE (19.33%) / Dominion (17%) / PEPCO (63.67%)
b0319	Add a second 1000 MVA Bruches Hill 500/230 kV transformer	PEPCO (100%)
b0366	Install a 4 th Ritchie 230/69 kV transformer	PEPCO (100%)

* Neptune Regional Transmission System, LLC

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

The Annual Revenue Requirement associated with the Transmission Enhancement Charges are set forth and determined in Appendix A to Attachment H-9.

Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0367.1	Reconductor circuit "23035" for Dickerson – Quince Orchard 230 kV	AEC (1.78%) / BGE (26.52%) / DPL (3.25%) / JCPL (2.67%) / ME (1.16%) / Neptune* (0.25%) / PECO (4.79%) / PEPCO (52.46%) / PPL (3.23%) / PSEG (3.81%) / ECP** (0.08%)
b0367.2	Reconductor circuit "23033" for Dickerson – Quince Orchard 230 kV	AEC (1.78%) / BGE (26.52%) / DPL (3.25%) / JCPL (2.67%) / ME (1.16%) / Neptune* (0.25%) / PECO (4.79%) / PEPCO (52.46%) / PPL (3.23%) / PSEG (3.81%) / ECP** (0.08%)
b0375	Install 0.5% reactor at Dickerson on the Pleasant View – Dickerson 230 kV circuit	AEC (1.02%) / BGE (25.42%) / DPL (2.97%) / ME (1.72%) / PECO (3.47%) / PEPCO (65.40%)
b0467.1	Reconductor the Dickerson – Pleasant View 230 kV circuit	AEC (1.75%) / APS (19.70%) / BGE (22.13%) / DPL (3.70%) / JCPL (0.71%) / ME (2.48%) / Neptune* (0.06%) / PECO (5.54%) / PEPCO (41.86%) / PPL (2.07%)
b0478	Reconductor the four circuits from Burches Hill to Palmers Corner	APS (1.68%) / BGE (1.83%) / PEPCO (96.49%)
b0496	Replace existing 500/230 kV transformer at Brighton	APS (5.67%) / BGE (29.68%) / Dominion (10.91%) / PEPCO (53.74%)
b0499	Install third Burches Hill 500/230 kV transformer	APS (3.54%) / BGE (7.31%) / PEPCO (89.15%)

*Neptune Regional Transmission System, LLC

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

*** Hudson Transmission Partners, LLC

The Annual Revenue Requirement associated with the Transmission Enhancement Charges are set forth and determined in Appendix A to Attachment H-9.

Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
0512	MAPP Project – install new 500 kV transmission from Possum Point to Calvert Cliffs and install a DC line from Calvert Cliffs to Vienna and a DC line from Calvert Cliffs to Indian River	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512.7	Advance n0772 (Replace Chalk Point 230 kV breaker (1A) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

** East Coast Power, L.L.C

*** Hudson Transmission Partners, LLC

Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.8 Advance n0773 (Replace Chalk Point 230 kV breaker (1B) with 80 kA breaker)		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512.9 Advance n0774 (Replace Chalk Point 230 kV breaker (2A) with 80 kA breaker)		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.10	Advance n0775 (Replace Chalk Point 230 kV breaker (2B) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512.11	Advance n0776 (Replace Chalk Point 230 kV breaker (2C) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.12	Advance n0777 (Replace Chalk Point 230 kV breaker (3A) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512.13	Advance n0778 (Replace Chalk Point 230 kV breaker (3B) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.14	Advance n0779 (Replace Chalk Point 230 kV breaker (3C) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512.15	Advance n0780 (Replace Chalk Point 230 kV breaker (4A) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.16	Advance n0781 (Replace Chalk Point 230 kV breaker (4B) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512.17	Advance n0782 (Replace Chalk Point 230 kV breaker (5A) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.18 Advance n0783 (Replace Chalk Point 230 kV breaker (5B) with 80 kA breaker)		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512.19 Advance n0784 (Replace Chalk Point 230 kV breaker (6A) with 80 kA breaker)		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.20	Advance n0785 (Replace Chalk Point 230 kV breaker (6B) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512.21	Advance n0786 (Replace Chalk Point 230 kV breaker (7B) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.22 Advance n0787 (Replace Chalk Point 230 kV breaker (8A) with 80 kA breaker)		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512.23 Advance n0788 (Replace Chalk Point 230 kV breaker (8B) with 80 kA breaker)		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.24	Advance n0789 (Replace Chalk Point 230 kV breaker (7A) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512.25	Advance n0790 (Replace Chalk Point 230 Kv breaker (1C) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.26	Advance n0791 (Replace Chalk Point 230 Kv breaker (4C) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512.27	Advance n0792 (Replace Chalk Point 230 Kv breaker (5C) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.28	Advance n0793 (Replace Chalk Point 230 Kv breaker (6C) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0512.29	Advance n0794 (Replace Chalk Point 230 Kv breaker (7C) with 80 kA breaker)	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0526	Build two Ritchie – Benning Station A 230 kV lines	AEC (0.77%) / BGE (16.76%) / DPL (1.22%) / JCPL (1.39%) / ME (0.59%) / Neptune* (0.13%) / PECO (2.10%) / PEPCO (74.86%) / PSEG (2.10%) / RE (0.08%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0561 Install 300 MVAR capacitor at Dickerson Station "D" 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0562 Install 500 MVAR capacitor at Brighton 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0637 Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0638 Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0639 Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0640 Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0641 Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0642 Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0643 Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0644 Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0645 Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0646 Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0647 Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0648 Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0649 Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)

Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0701	Expand Benning 230 kV station, add a new 250 MVA 230/69 kV transformer at Benning Station 'A', new 115 kV Benning switching station	BGE (30.57%) / PEPCO (69.43%)
b0702	Add a second 50 MVAR 230 kV shunt reactor at the Benning 230 kV substation	PEPCO (100%)
b0720	Upgrade terminal equipment on both lines	PEPCO (100%)
b0721	Upgrade Oak Grove – Ritchie 23061 230 kV line	PEPCO (100%)
b0722	Upgrade Oak Grove – Ritchie 23058 230 kV line	PEPCO (100%)
b0723	Upgrade Oak Grove – Ritchie 23059 230 kV line	PEPCO (100%)
b0724	Upgrade Oak Grove – Ritchie 23060 230 kV line	PEPCO (100%)
b0730	Add slow oil circulation to the four Bells Mill Road – Bethesda 138 kV lines, add slow oil circulation to the two Buzzard Point – Southwest 138 kV lines; increasing the thermal ratings of these six lines allows for greater adjustment of the O Street phase shifters	PEPCO (100%)

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Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0731	Implement an SPS to automatically shed load on the 34 kV Bells Mill Road bus for this N-2 condition. The SPS will be in effect for 2013 and 2014 until a third Bells Mill 230/34 kV is placed in-service in 2015	PEPCO (100%)
b0746	Upgrade circuit for 3,000 amps using the ACCR	AEC (0.73%) / BGE (31.05%) / DPL (1.45%) / PECO (2.46%) / PEPCO (62.88%) / PPL (1.43%)
b0747	Upgrade terminal equipment on both lines: Quince Orchard - Bells Mill 230 kV (030) and (028)	PEPCO (100%)
b0802	Advance n0259 (Replace Dickerson Station H Circuit Breaker 412A)	PEPCO (100%)
b0803	Advance n0260 (Replace Dickerson Station H Circuit Breaker 42A)	PEPCO (100%)
b0804	Advance n0261 (Replace Dickerson Station H Circuit Breaker 42C)	PEPCO (100%)
b0805	Advance n0262 (Replace Dickerson Station H Circuit Breaker 43A)	PEPCO (100%)
b0806	Advance n0264 (Replace Dickerson Station H Circuit Breaker 44A)	PEPCO (100%)

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Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0809	Advance n0267 (Replace Dickerson Station H Circuit Breaker 45B)	PEPCO (100%)
b0810	Advance n0270 (Replace Dickerson Station H Circuit Breaker 47A)	PEPCO (100%)
b0811	Advance n0726 (Replace Dickerson Station H Circuit Breaker SPARE)	PEPCO (100%)
b0845	Replace Chalk Point 230 kV breaker (1A) with 80 kA breaker	PEPCO (100%)
b0846	Replace Chalk Point 230 kV breaker (1B) with 80 kA breaker	PEPCO (100%)
b0847	Replace Chalk Point 230 kV breaker (2A) with 80 kA breaker	PEPCO (100%)
b0848	Replace Chalk Point 230 kV breaker (2B) with 80 kA breaker	PEPCO (100%)
b0849	Replace Chalk Point 230 kV breaker (2C) with 80 kA breaker	PEPCO (100%)
b0850	Replace Chalk Point 230 kV breaker (3A) with 80 kA breaker	PEPCO (100%)
b0851	Replace Chalk Point 230 kV breaker (3B) with 80 kA breaker	PEPCO (100%)
b0852	Replace Chalk Point 230 kV breaker (3C) with 80 kA breaker	PEPCO (100%)
b0853	Replace Chalk Point 230 kV breaker (4A) with 80 kA breaker	PEPCO (100%)
b0854	Replace Chalk Point 230 kV breaker (4B) with 80 kA breaker	PEPCO (100%)
b0855	Replace Chalk Point 230 kV breaker (5A) with 80 kA breaker	PEPCO (100%)

Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0856	Replace Chalk Point 230 kV breaker (5B) with 80 kA breaker	PEPCO (100%)
b0857	Replace Chalk Point 230 kV breaker (6A) with 80 kA breaker	PEPCO (100%)
b0858	Replace Chalk Point 230 kV breaker (6B) with 80 kA breaker	PEPCO (100%)
b0859	Replace Chalk Point 230 kV breaker (7B) with 80 kA breaker	PEPCO (100%)
b0860	Replace Chalk Point 230 kV breaker (8A) with 80 kA breaker	PEPCO (100%)
b0861	Replace Chalk Point 230 kV breaker (8B) with 80 kA breaker	PEPCO (100%)
b0862	Replace Chalk Point 230 kV breaker (7A) with 80 kA breaker	PEPCO (100%)
b0863	Replace Chalk Point 230 kV breaker (1C) with 80 kA breaker	PEPCO (100%)
b1104	Replace Burtonsville 230 kV breaker '1C'	PEPCO (100%)
b1105	Replace Burtonsville 230 kV breaker '2C'	PEPCO (100%)
b1106	Replace Burtonsville 230 kV breaker '3C'	PEPCO (100%)
b1107	Replace Burtonsville 230 kV breaker '4C'	PEPCO (100%)
b1125	Convert the 138 kV line from Buzzard 138 - Ritchie 851 to a 230 kV line and Remove 230/138 kV Transformer at Ritchie and install a spare 230/138 kV transformer at Buzzard Pt	APS (4.74%) / PEPCO (95.26%)
b1126	Upgrade the 230 kV line from Buzzard 016 – Ritchie 059	APS (4.74%) / PEPCO (95.26%)

Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1592	Reconductor the Oak Grove – Bowie 230 kV circuit and upgrade terminal equipments at Oak Grove and Bowie 230 kV substations	AEC (2.39%) / APS (3.82%) / BGE (65.72%) / DPL (4.43%) / JCPL (3.93%) / ME (2.16%) / Neptune* (0.39%) / HTP (0.10%) / PECO (8.35%) / PPL (2.83%) / ECP** (0.13%) / PSEG (5.53%) / RE (0.22%)
b1593	Reconductor the Bowie - Burtonsville 230 kV circuit and upgrade terminal equipments at Bowie and Burtonsville 230 kV substations	AEC (2.39%) / APS (3.82%) / BGE (65.72%) / DPL (4.43%) / JCPL (3.93%) / ME (2.16%) / Neptune* (0.39%) / HTP (0.10%) / PECO (8.35%) / PPL (2.83%) / ECP** (0.13%) / PSEG (5.53%) / RE (0.22%)
b1594	Reconductor the Oak Grove – Bowie 230 kV ‘23042’ circuit and upgrade terminal equipments at Oak Grove and Bowie 230 kV substations	AEC (2.38%) / APS (3.84%) / BGE (65.72%) / DPL (4.44%) / JCPL (3.93%) / ME (2.16%) / Neptune* (0.39%) / HTP (0.10%) / PECO (8.33%) / PPL (2.83%) / ECP** (0.13%) / PSEG (5.53%) / RE (0.22%)
b1595	Reconductor the Bowie – Burtonsville 230 kV ‘23042’ circuit and upgrade terminal equipments at Oak Grove and Burtonsville 230 kV substations	AEC (2.38%) / APS (3.84%) / BGE (65.72%) / DPL (4.44%) / JCPL (3.93%) / ME (2.16%) / Neptune* (0.39%) / HTP (0.10%) / PECO (8.33%) / PPL (2.83%) / ECP** (0.13%) / PSEG (5.53%) / RE (0.22%)
b1596	Reconductor the Dickerson station “H” – Quince Orchard 230 kV ‘23032’ circuit and upgrade terminal equipments at Dickerson station “H” and Quince Orchard 230 kV substations	AEC (0.80%) / BGE (33.68%) / DPL (2.09%) / PECO (3.07%) / PEPCO (60.36%)

* Neptune Regional Transmission System, LLC

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

Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1597	Reconductor the Oak Grove - Aquasco 230 kV '23062' circuit and upgrade terminal equipments at Oak Grove and Aquasco 230 kV substations	AEC (1.44%) / BGE (48.60%) / DPL (2.52%) / PECO (5.00%) / PEPCO (42.44%)
b2008	Reconductor feeder 23032 and 23034 to high temp. conductor (10 miles)	BGE (33.05%) / DPL (1.38%) / PECO (1.35%) / PEPCO (64.22%) /
b2136	Reconductor the Morgantown - V3-017 230 kV '23086' circuit and replace terminal equipments at Morgantown	PEPCO (100%)
b2137	Reconductor the Morgantown - Talbert 230 kV '23085' circuit and replace terminal equipment at Morgantown	PEPCO (100%)
b2138	Replace terminal equipments at Hawkins 230 kV substation	PEPCO (100%)

Attachment 7h (PPL OATT)

SCHEDULE 12 – APPENDIX

(9) PPL Electric Utilities Corporation

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0074	Rebuild 12 miles of S. Akron – Berks 230 kV to double circuit, looping Met Ed’s S. Lebanon – S. Reading line into Berks; replacement of S. Reading 230 kV breaker 107252	PPL (100%)
b0171.2	Replace wavetrap at Hosensack 500kV substation to increase rating of Elroy - Hosensack 500 kV	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0172.1	Replace wave trap at Alburdis 500kV substation	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

* 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)
b0284.2	Replace two wave traps at Juniata 500 kV – on the two Juniata – Airydale 500 kV	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0284.4	Changes at Juniata 500 kV substation	PPL (100%)
b0293.1	Replace wavetrap at the Martins Creek 230 kV bus	PPL (100%)
b0293.2	Raise the operating temperature of the 2-1590 ACSR to 140C for the Martins Creek – Portland 230 kV circuit	PPL (100%)
b0440	Spare Juniata 500/230 kV transformer	PPL (100%)
b0468	Build a new substation with two 150 MVA transformers between Dauphin and Hummelstown 230/69 kV substations by sectionalizing the Middletown Junction – New Lebanon 230 kV line	JCPL (4.55%) / Neptune* (0.37%) / PECO (1.79%) / PENELEC (0.33%) / PPL (86.63%) / ECP** (0.18%) / PSEG (5.93%) / RE (0.22%)

* Neptune Regional Transmission System, LLC

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

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PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0469	Install 130 MVAR capacitor at West Shore 230 kV line	PPL (100%)
b0487	Build new 500 kV transmission facilities from Susquehanna to Pennsylvania – New Jersey border at Bushkill	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0487.1	Install Lackawanna 500/230 kV transformer and upgrade 230 kV substation and switchyard	PENELEC (16.90%) / PPL (77.59%) / ECP** (0.19%) / PSEG (5.13%) / RE (0.19%)
b0500.1	Conastone – Otter Creek 230 kV – Reconductor approximately 17.2 miles of 795 kmil ACSR with new 795 kmil ACSS operated at 160 deg C	AEC (6.27%) / DPL (8.65%) / JCPL (14.54%) / ME (10.59%) / Neptune* (1.37%) / PECO (15.66%) / PPL (21.02%) / ECP** (0.57%) / PSEG (20.56%) / RE (0.77%)

*Neptune Regional Transmission System, LLC

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The Annual Revenue Requirements associated with the Transmission Enhancement Charges are set forth and determined in Appendix A to Attachment H-8G.

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0558	Install 250 MVAR capacitor at Juniata 500 kV substation	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0593	Eldred – Pine Grove 69 kV line Rebuild Part 2: 8 miles	PPL (100%)
b0595	Rebuild Lackawanna – Edella 69 kV line to double circuit	PPL (100%)
b0596	Reconductor and rebuild Stanton – Providence 69 kV #1 and #2 lines with 69 kV design; approximately 8 miles total	PPL (100%)
b0597	Reconductor Suburban – Providence 69 kV #1 and resectionalize the Suburban 69 kV lines	PPL (100%)
b0598	Reconductor Suburban Taps #1 and #2 for 69 kV line portions	PPL (100%)

* Neptune Regional Transmission System, LLC

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

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PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0600 Tripp Park Substation: 69 kV tap off Stanton – Providence 69 kV line #3 to new substation		PPL (100%)
b0601 Jessup Substation: New 138/69 kV tap off of Peckville – Jackson 138/69 kV line		PPL (100%)
b0604 Add 150 MVA, 230/138/69 transformer #6 to Harwood substation		PPL (100%)
b0605 Reconductor Stanton – Old Forge 69 kV line and resectionalize the Jenkins – Scranton 69 kV #1 and #2 lines		PPL (100%)
b0606 New 138 kV tap off Monroe – Jackson 138 kV #1 line to Bartonsville substation		PPL (100%)
b0607 New 138 kV taps off Monroe – Jackson 138 kV lines to Stroudsburg substation		PPL (100%)
b0608 New 138 kV tap off Siegfried – Jackson 138 kV #2 to transformer #2 at Gilbert substation		PPL (100%)
b0610 At South Farmersville substation, a new 69 kV tap off Nazareth – Quarry #2 to transformer #2		PPL (100%)
b0612 Rebuild Siegfried – North Bethlehem portion (6.7 miles) of Siegfried – Quarry 69 kV line		PPL (100%)
b0613 East Tannersville Substation: New 138 kV tap to new substation		PPL (100%)

PPL Electric Utilities Corporation (cont.)

Required	Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0614	Elroy substation expansion and new Elroy – Hatfield 138/69 kV double circuit lines (1.9 miles)		PPL (100%)
b0615	Reconductor and rebuild 12 miles of Seidersville – Quakerstown 138/69 kV and a new 75 MVA, 230/69 kV transformer #4		PPL (100%)
b0616	New Springfield 230/69 kV substation and transmission line connections		PPL (100%)
b0620	New 138 kV line and terminal at Monroe 230/138 substation		PPL (100%)
b0621	New 138 kV line and terminal at Siegfried 230/138 kV substation and add a second circuit to Siegfried – Jackson for 8.0 miles		PPL (100%)
b0622	138 kV yard upgrades and transmission line rearrangements at Jackson 138/69 kV substation		PPL (100%)
b0623	New West Shore – Whitehill Taps 138/69 kV double circuit line (1.3 miles)		PPL (100%)
b0624	Reconductor Cumberland – Wertzville 69 kV portion (3.7 miles) of Cumberland – West Shore 69 kV line		PPL (100%)
b0625	Reconductor Mt. Allen – Rossmoyne 69 kV portions (1.6 miles) of West Shore – Cumberland #3 and #4 lines		PPL (100%)

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0627	Replace UG cable from Walnut substation to Center City Harrisburg substation for higher ampacity (0.25 miles)	PPL (100%)
b0629	Lincoln substation: 69 kV tap to convert to modified Twin A	PPL (100%)
b0630	W. Hempfield – Donegal 69 kV line: Reconductor / rebuild from Landisville Tap – Mt. Joy (2 miles)	PPL (100%)
b0631	W. Hempfield – Donegal 69 kV line: Reconductor / rebuild to double circuit from Mt. Joy – Donegal (2 miles)	PPL (100%)
b0632	Terminate new S. Manheim – Donegal 69 kV circuit into S. Manheim 69 kV #3	PPL (100%)
b0634	Rebuild S. Manheim – Fuller 69 kV portion (1.0 mile) of S. Manheim – West Hempfield 69 kV #3 line into a 69 kV double circuit	PPL (100%)
b0635	Reconductor Fuller Tap – Landisville 69 kV (4.1 miles) into a 69 kV double circuit	PPL (100%)
b0703	Berks substation modification on Berks – South Akron 230 kV line. Modification will isolate the line fault on the South Akron line and will allow Berks transformer #2 to be energized by the South Lebanon 230 kV circuit	PPL (100%)

PPL Electric Utilities Corporation (cont.)

Required	Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0705	New Derry – Millville 69 kV line		PPL (100%)
b0707	Construct Bohemia – Twin Lakes 69 kV line, install a 10.9 MVAR capacitor bank near Bohemia 69 kV substation		PPL (100%)
b0708	New 69 kV double circuit from Jackson – Lake Naomi Tap		PPL (100%)
b0709	Install new 69 kV double circuit from Carlisle – West Carlisle		PPL (100%)
b0710	Install a third 69 kV line from Reese’s Tap to Hershey substation		PPL (100%)
b0711	New 69 kV that taps West Shore – Cumberland 69 kV #1 to Whitehill 69 kV substation		PPL (100%)
b0712	Construct a new 69 kV line between Strassburg Tap and the Millwood – Engleside 69 kV #1 line		PPL (100%)
b0713	Construct a new 138 kV double circuit line between Dillersville Tap and the West Hempfield – Prince 138 kV line		PPL (100%)
b0714	Prepare Roseville Tap for 138 kV conversion		PPL (100%)
b0715	Transfer S. Akron – S. Manheim #1 and #2 lines from the S. Akron 69 kV Yard to the S. Akron 138 kV Yard; Install switches on S. Akron – S. Manheim 138 kV #1 and #2 lines		PPL (100%)

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0716	Add a second 69 kV line from Morgantown – Twin Valley	PPL (100%)
b0717	Rebuild existing Brunner Island – West Shore 230 kV line and add a second Brunner Island – West Shore 230 kV line	PPL (100%)
b0718	SPS scheme to drop 190 MVA of 69 kV radial load at West Shore and 56 MVA of 69 kV radial load at Cumberland	PPL (100%)
b0719	SPS scheme at Jenkins substation to open the Stanton #1 and Stanton #2 230 kV circuit breakers after the second contingency	PPL (100%)
b0791	Add a fourth 230/69 kV transformer at Stanton	PENELEC (9.55%) / PPL (90.45%)
b1074	Install motor operators on the Jenkins 230 kV ‘2W’ disconnect switch and build out Jenkins Bay 3 and have MOD ‘3W’ operated as normally open	PPL (100%)
b0881	Install motor operators on Susquehanna T21 - Susquehanna 230 kV line East CB at Susquehanna 230 kV switching station	PPL (100%)
b0908	Install motor operators at South Akron 230 kV	PPL (100%)

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0909	Convert Jenkins 230 kV yard into a 3-breaker ring bus	PPL (100%)
b0910	Install a second 230 kV line between Jenkins and Stanton	PPL (100%)
b0911	Install motor operators at Frackville 230 kV	PPL (100%)
b0912	Install 2, 10.8 MVAR capacitor banks at Scranton 69 kV	PPL (100%)
b0913	Extend Cando Tap to the Harwood-Jenkins #2 69 kV line	PPL (100%)
b0914	Build a 3rd 69 kV line from Harwood to Valmont Taps	PPL (100%)
b0915	Replace Walnut-Center City 69 kV cable	PPL (100%)
b0916	Reconductor Sunbury-Dalmatia 69 kV line	PPL (100%)
b1021	Install a new (#4) 138/69 kV transformer at Wescosville	PPL (100%)
b1196	Remove the Siegfried bus tie breaker and install a new breaker on the Martins Creek 230 kV line west bay to maintain two ties between the 230 kV buses	PPL (100%)
b1201	Rebuild the Hercules Tap to Double Circuit 69 kV	PPL (100%)

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1202 Mack-Macungie Double Tap, Single Feed Arrangement		PPL (100%)
b1203 Add the 2nd Circuit to the East Palmerton-Wagners-Lake Naomi 138/69 kV Tap		PPL (100%)
b1204 New Breinigsville 230-69 kV Substation		PPL (100%)
b1205 Siegfried-East Palmerton #1 69 kV Line- Install new 69 kV LSAB, Sectionalize, and Transfer Treichlers Substation		PPL (100%)
b1206 Siegfried-Quarry #1 & #2 69 kV Lines- Rebuild 3.3 mi from Quarry Substation to Macada Taps		PPL (100%)
b1209 Convert Neffsville Taps from 69 kV to 138 kV Operation		PPL (100%)
b1210 Convert Roseville Taps from 69 kV to 138 kV Operation (Part 1 – operate on the 69 kV system)		PPL (100%)
b1211 Convert Roseville Taps from 69 kV to 138 kV Operation (Part 2 – operate on the 138 kV system)		PPL (100%)
b1212 New 138 kV Taps to Flory Mill 138/69 kV Substation		PPL (100%)

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1213	Convert East Petersburg Taps from 69 kV to 138 kV operation, install two 10.8 MVAR capacitor banks	PPL (100%)
b1214	Terminate South Manheim-Donegal #2 at South Manheim, Reduce South Manheim 69 kV Capacitor Bank, Resectionalize 69 kV	PPL (100%)
b1215	Reconductor and rebuild 16 miles of Peckville-Varden 69 kV line and 4 miles of Blooming Grove-Honesdale 69 kV line	PPL (100%)
b1216	Build approximately 2.5 miles of new 69 kV transmission line to provide a “double tap – single feed” connection to Kimbles 69/12 kV substation	PPL (100%)
b1217	Provide a “double tap – single feed” connection to Tafton 69/12 kV substation	PPL (100%)
b1524	Build a new Pocono 230/69 kV substation	PPL (100%)
b1524.1	Build approximately 14 miles new 230 kV South Pocono – North Pocono line	PPL (100%)
b1524.2	Install MOLSABs at Mt. Pocono substation	PPL (100%)

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1525	Build new West Pocono 230/69 kV Substation	PPL (100%)
b1525.1	Build approximately 14 miles new 230 kV Jenkins-West Pocono 230 kV Line	PPL (100%)
b1525.2	Install Jenkins 3E 230 kV circuit breaker	PPL (100%)
b1526	Install a new Honeybrook – Twin Valley 69/138 kV tie	PPL (100%)
b1527	Construct a new 230/69 kV North Lancaster substation. The sub will be supplied from the SAKR-BERK 230kV Line	PPL (100%)
b1527.1	Construct new 69/138 kV transmission from North Lancaster 230/69 kV sub to Brecknock and Honeybrook areas	PPL (100%)
b1528	Install Motor-Operated switches on the Wescosville-Trexlerstown #1 & #2 69 kV lines at East Texas Substation	PPL (100%)
b1529	Add a double breaker 230 kV bay 3 at Hosensack	PPL (100%)
b1530	Replace Lock Haven 69kV ring bus with standard breaker and half design	PPL (100%)
b1532	Install new 32.4 MVAR capacitor bank at Sunbury	PPL (100%)

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1533	Rebuild Lycoming-Lock Haven #1 and Lycoming-Lock Haven #2 69kV lines	PPL (100%)
b1534	Rebuild 1.4 miles of the Sunbury-Milton 69kV	PPL (100%)
b1601	Re-configure the Breinigsville 500 kV substation with addition two 500 kV circuit breakers	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)†
b1602	Re-configure the ElimSPORT 230 kV substation to breaker and half scheme and install 80 MVAR capacitor	PPL (100%)
b1740	Install a 90 MVAR cap bank on the Frackville 230 kV bus #207973	PPL (100%)
b1756	Install a 3rd West Shore 230/69 kV transformer	PPL (100%)
b1757	Install a 230 kV motor-operated air-break switch on the Clinton - ElimSPORT 230 kV line	PPL (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)
b1758	Rebuild 1.65 miles of Columbia - Danville 69 kV line	PPL (100%)
b1759	Install a 69 kV 16.2 MVAR Cap at Milton substation	PPL (100%)
b1760	Install motor operated devices on the existing disconnect switches that are located on each side of all four 230 kV CBs at Stanton	PPL (100%)
b1761	Build a new Paupack - North 230 kV line (Approximately 21 miles)	PPL (100%)
b1762	Replace 3.7 miles of the existing 230 kV Blooming Grove - Peckville line by building 8.4 miles of new 230 kV circuit onto the Lackawanna - Hopatcong tower-line	PPL (100%)
b1763	Re-terminate the Peckville - Jackson and the Peckville - Varden 69 kV lines from Peckville into Lackawanna	PPL (100%)
b1764	Build a new 230-69 kV substations (Paupack)	PPL (100%)
b1765	Install a 16.2 MVAR capacitor bank at Bohemia 69-12 kV substation	PPL (100%)
b1766	Reconductor/rebuild 3.3 miles of the Siegfried - Quarry #1 and #2 lines	PPL (100%)
b1767	Install 6 motor-operated disconnect switches at Quarry substation	PPL (100%)

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1788	Install a new 500 kV circuit breaker at Wescosville	PPL (100%)
b1890	Add a second 230/69 kV transformer at North Pocono (NE/Pocono Reliability Project)	PPL (100%)
b1891	Build a new 230/138 kV Yard at Lackawanna (138 kV conversion from Lackawanna to Jenkins)	PPL (100%)
b1892	Rebuild the Throop Taps for 138 kV operation (138 kV Conversion from Lackawanna to Jenkins)	PPL (100%)
b1893	Swap the Staton - Old Forge and Stanton - Brookside 69 kV circuits at Stanton (138 kV Conversion from Lackawanna to Jenkins)	PPL (100%)
b1894	Rebuild and re-conductor 2.5 miles of the Stanton - Avoca 69 kV line	PPL (100%)
b1895	Rebuild and re-conductor 4.9 miles of the Stanton - Providence #1 69 kV line	PPL (100%)
b1896	Install a second 230/138 kV transformer and expand the 138 kV yard at Monroe	PPL (100%)
b1897	Build a new 230/138 kV substation at Jenkins (138 kV Conversion from Lackawanna to Jenkins)	PPL (100%)
b1898	Install a 69 kV Tie Line between Richfield and Dalmatia substations	PPL (100%)
b2004	Replace the CTs and switch in South Akron Bay 4 to increase the rating	PPL (100%)

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2005 Replace the CTs and switch in SAKR Bay 3 to increase the rating of the Millwood-South Akron 230 kV Line and of the rating in Bay 3		PPL (100%)
b2006 Install North Lancaster 500/230 kV substation (below 500 kV portion)		AEC (1.10%) / ECP** (0.37%) / HTP (0.37%) / JCPL (9.61%) / ME (19.42%) / Neptune* (0.75%) / PECO (6.01%) / PPL (50.57%) / PSEG (11.35%) / RE (0.45%)
b2006.1 Install North Lancaster 500/230 kV substation (500 kV portion)		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b2007 Install a 90 MVAR capacitor bank at the Frackville 230 kV Substation		PPL (100%)
b2158 Install 10.8 MVAR capacitor at West Carlisle 69/12 kV substation		PPL (100%)

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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%)

PPL Electric Utilities Corporation (cont.)

<i>Required Transmission Enhancements</i>	<i>Annual Revenue Requirement</i>	<i>Responsible Customer(s)</i>
b2237	150 MVAR shunt reactor at Alburdis 500 kV	<p>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)</p> <p>DFAX Allocation: PPL (100%)</p>
b2238	100 MVAR shunt reactor at Elimspport 230 kV	PPL (100%)

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PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2269	Rebuild approximately 23.7 miles of the Susquehanna - Jenkins 230kV 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 900MVA 500-230kV transformer and associated equipment	PPL (100%)
b2552.2	Reconductor the North Meshoppen - Oxbow – Lackawanna 230 kV circuit and upgrade terminal equipment (PPL portion)	PENELEC (100%)
b2574	Replace the Sunbury 230 kV ‘MONTOUR NORT’ breaker with a 63kA 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>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)</p> <p>DFAX Allocation: PPL (100%)</p>
b2754.1	<i>Install 7 miles of optical ground wire (OPGW) between Gilbert and Springfield 230 kV substations</i>	<i>PPL (100%)</i>
b2754.4	<i>Use ~ 40 route miles of existing fibers on PPL 230 kV system to establish direct fiber circuits</i>	<i>PPL (100%)</i>
b2754.5	<i>Upgrade relaying at Martins Creek 230 kV</i>	<i>PPL (100%)</i>
b2756	<i>Install 2% reactors at Martins Creek 230 kV</i>	<i>PPL (100%)</i>

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Attachment 7i (AEP OATT)

SCHEDULE 12 – APPENDIX

(17) AEP Service Corporation on behalf of its Affiliate Companies (AEP Indiana Michigan Transmission Company, AEP Kentucky Transmission Company, AEP Ohio Transmission Company, AEP West Virginia Transmission Company, Appalachian Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0318	Install a 765/138 kV transformer at Amos	AEP (99.00%) / PEPCO (1.00%)
b0324	Replace entrance conductors, wave traps, and risers at the Tidd 345 kV station on the Tidd – Canton Central 345 kV circuit	AEP (100%)
b0447	Replace Cook 345 kV breaker M2	AEP (100%)
b0448	Replace Cook 345 kV breaker N2	AEP (100%)
b0490	Construct an Amos – Bedington 765 kV circuit (AEP equipment)	As specified under the procedures detailed in Attachment H-19B AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0490.2	Replace Amos 138 kV breaker 'B'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0490.3	Replace Amos 138 kV breaker 'B1'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0490.4	Replace Amos 138 kV breaker 'C'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0490.5	Replace Amos 138 kV breaker 'C1'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0490.6	Replace Amos 138 kV breaker 'D'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0490.7	Replace Amos 138 kV breaker 'D2'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0490.8	Replace Amos 138 kV breaker 'E'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0490.9	Replace Amos 138 kV breaker 'E2'	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0504	Add two advanced technology circuit breakers at Hanging Rock 765 kV to improve operational performance	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b0570	Reconductor East Side Lima – Sterling 138 kV	AEP (41.99%) / ComEd (58.01%)
b0571	Reconductor West Millersport – Millersport 138 kV	AEP (73.83%) / ComEd (19.26%) / Dayton (6.91%)
b0748	Establish a new 69 kV circuit between the Canal Road and East Wooster stations, establish a new 69 kV circuit between the West Millersburg and Moreland Switch stations (via Shreve), add reactive support via cap banks	AEP (100%)
b0838	Hazard Area 138 kV and 69 kV Improvement Projects	AEP (100%)
b0839	Replace existing 450 MVA transformer at Twin Branch 345 / 138 kV with a 675 MVA transformer	AEP (99.73%) / Dayton (0.27%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0840	String a second 138 kV circuit on the open tower position between Twin Branch and East Elkhart	AEP (100%)
b0840.1	Establish a new 138/69-34.5kV Station to interconnect the existing 34.5kV network	AEP (100%)
b0917	Replace Baileysville 138 kV breaker 'P'	AEP (100%)
b0918	Replace Riverview 138 kV breaker '634'	AEP (100%)
b0919	Replace Torrey 138 kV breaker 'W'	AEP (100%)
b1032.1	Construct a new 345/138kV station on the Marquis-Bixby 345kV line near the intersection with Ross - Highland 69kV	AEP (89.97%) / Dayton (10.03%)
b1032.2	Construct two 138kV outlets to Delano 138kV station and to Camp Sherman station	AEP (89.97%) / Dayton (10.03%)
b1032.3	Convert Ross - Circleville 69kV to 138kV	AEP (89.97%) / Dayton (10.03%)
b1032.4	Install 138/69kV transformer at new station and connect in the Ross - Highland 69kV line	AEP (89.97%) / Dayton (10.03%)
b1033	Add a third delivery point from AEP's East Danville Station to the City of Danville.	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1034.1	Establish new South Canton - West Canton 138kV line (replacing Torrey - West Canton) and Wagenhals - Wayview 138kV	AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1034.2	Loop the existing South Canton - Wayview 138kV circuit in-and-out of West Canton	AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1034.3	Install a 345/138kV 450 MVA transformer at Canton Central	AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1034.4	Rebuild/reconductor the Sunnyside - Torrey 138kV line	AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1034.5	Disconnect/eliminate the West Canton 138kV terminal at Torrey Station	AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1034.6	Replace all 138kV circuit breakers at South Canton Station and operate the station in a breaker and a half configuration	AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1034.7	Replace all obsolete 138kV circuit breakers at the Torrey and Wagenhals stations	AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1034.8	Install additional 138kV circuit breakers at the West Canton, South Canton, Canton Central, and Wagenhals stations to accommodate the new circuits	AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1035	Establish a third 345kV breaker string in the West Millersport Station. Construct a new West Millersport – Gahanna 138kV circuit. Miscellaneous improvements to 138kV transmission system.	AEP (100%)
b1036	Upgrade terminal equipment at Poston Station and update remote end relays	AEP (100%)
b1037	Sag check Bonsack–Cloverdale 138 kV, Cloverdale–Centerville 138kV, Centerville–Ivy Hill 138kV, Ivy Hill–Reusens 138kV, Bonsack–Reusens 138kV and Reusens–Monel–Gomingo–Joshua Falls 138 kV.	AEP (100%)
b1038	Check the Crooksville - Muskingum 138 kV sag and perform the required work to improve the emergency rating	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1039	Perform a sag study for the Madison – Cross Street 138 kV line and perform the required work to improve the emergency rating	AEP (100%)
b1040	Rebuild an 0.065 mile section of the New Carlisle – Olive 138 kV line and change the 138 kV line switches at New Carlisle	AEP (100%)
b1041	Perform a sag study for the Moseley - Roanoke 138 kV to increase the emergency rating	AEP (100%)
b1042	Perform sag studies to raise the emergency rating of Amos – Poca 138kV	AEP (100%)
b1043	Perform sag studies to raise the emergency rating of Turner - Ruth 138kV	AEP (100%)
b1044	Perform sag studies to raise the emergency rating of Kenova – South Point 138kV	AEP (100%)
b1045	Perform sag studies of Tri State - Darrah 138 kV	AEP (100%)
b1046	Perform sag study of Scottsville – Bremono 138kV to raise the emergency rating	AEP (100%)
b1047	Perform sag study of Otter Switch - Altavista 138kV to raise the emergency rating	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1048	Reconductor the Bixby - Three C - Groves and Bixby - Groves 138 kV tower line	AEP (100%)
b1049	Upgrade the risers at the Riverside station to increase the rating of Benton Harbor – Riverside 138kV	AEP (100%)
b1050	Rebuilding and reconductor the Bixby – Pickerington Road - West Lancaster 138 kV line	AEP (100%)
b1051	Perform a sag study for the Kenzie Creek – Pokagon 138 kV line and perform the required work to improve the emergency rating	AEP (100%)
b1052	Unsix-wire the existing Hyatt - Sawmill 138 kV line to form two Hyatt - Sawmill 138 kV circuits	AEP (100%)
b1053	Perform a sag study and remediation of 32 miles between Claytor and Matt Funk.	AEP (100%)
b1091	Add 28.8 MVAR 138 kV capacitor bank at Huffman and 43.2 MVAR 138 kV Bank at Jubal Early and 52.8 MVAR 138 kV Bank at Progress Park Stations	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1092	Add 28.8 MVAR 138 kV capacitor bank at Sullivan Gardens and 52.8 MVAR 138 kV Bank at Reedy Creek Stations	AEP (100%)
b1093	Add a 43.2 MVAR capacitor bank at the Morgan Fork 138 kV Station	AEP (100%)
b1094	Add a 64.8 MVAR capacitor bank at the West Huntington 138 kV Station	AEP (100%)
b1108	Replace Ohio Central 138 kV breaker 'C2'	AEP (100%)
b1109	Replace Ohio Central 138 kV breaker 'D1'	AEP (100%)
b1110	Replace Sporn A 138 kV breaker 'J'	AEP (100%)
b1111	Replace Sporn A 138 kV breaker 'J2'	AEP (100%)
b1112	Replace Sporn A 138 kV breaker 'L'	AEP (100%)
b1113	Replace Sporn A 138 kV breaker 'L1'	AEP (100%)
b1114	Replace Sporn A 138 kV breaker 'L2'	AEP (100%)
b1115	Replace Sporn A 138 kV breaker 'N'	AEP (100%)
b1116	Replace Sporn A 138 kV breaker 'N2'	AEP (100%)
b1227	Perform a sag study on Altavista – Leesville 138 kV circuit	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1231	Replace the existing 138/69-12 kV transformer at West Moulton Station with a 138/69 kV transformer and a 69/12 kV transformer	AEP (96.69%) / Dayton (3.31%)
b1375	Replace Roanoke 138 kV breaker 'T'	AEP (100%)
b1376	Replace Roanoke 138 kV breaker 'E'	AEP (100%)
b1377	Replace Roanoke 138 kV breaker 'F'	AEP (100%)
b1378	Replace Roanoke 138 kV breaker 'G'	AEP (100%)
b1379	Replace Roanoke 138 kV breaker 'B'	AEP (100%)
b1380	Replace Roanoke 138 kV breaker 'A'	AEP (100%)
b1381	Replace Olive 345 kV breaker 'E'	AEP (100%)
b1382	Replace Olive 345 kV breaker 'R2'	AEP (100%)
b1416	Perform a sag study on the Desoto – Deer Creek 138 kV line to increase the emergency rating	AEP (100%)
b1417	Perform a sag study on the Delaware – Madison 138 kV line to increase the emergency rating	AEP (100%)
b1418	Perform a sag study on the Rockhill – East Lima 138 kV line to increase the emergency rating	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1419	Perform a sag study on the Findlay Center – Fostoria Ctl 138 kV line to increase the emergency rating	AEP (100%)
b1420	A sag study will be required to increase the emergency rating for this line. Depending on the outcome of this study, more action may be required in order to increase the rating	AEP (100%)
b1421	Perform a sag study on the Sorenson – McKinley 138 kV line to increase the emergency rating	AEP (100%)
b1422	Perform a sag study on John Amos – St. Albans 138 kV line to allow for operation up to its conductor emergency rating	AEP (100%)
b1423	A sag study will be performed on the Chemical – Capitol Hill 138 kV line to determine if the emergency rating can be utilized	AEP (100%)
b1424	Perform a sag study for Benton Harbor – West Street – Hartford 138 kV line to improve the emergency rating	AEP (100%)
b1425	Perform a sag study for the East Monument – East Danville 138 kV line to allow for operation up to the conductor’s maximum operating temperature	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1426	Perform a sag study for the Reusens – Graves 138 kV line to allow for operation up to the conductor’s maximum operating temperature	AEP (100%)
b1427	Perform a sag study on Smith Mountain – Leesville – Altavista – Otter 138 kV and on Boones – Forest – New London – JohnsMT – Otter	AEP (100%)
b1428	Perform a sag study on Smith Mountain – Candler’s Mountain 138 kV and Joshua Falls – Cloverdale 765 kV to allow for operation up to	AEP (100%)
b1429	Perform a sag study on Fremont – Clinch River 138 kV to allow for operation up to its conductor emergency ratings	AEP (100%)
b1430	Install a new 138 kV circuit breaker at Benton Harbor station and move the load from Watervliet 34.5 kV station to West street 138 kV	AEP (100%)
b1432	Perform a sag study on the Kenova – Tri State 138 kV line to allow for operation up to their conductor emergency rating	AEP (100%)
b1433	Replace risers in the West Huntington Station to increase the line ratings which would eliminate the overloads for the contingencies listed	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1434 Perform a sag study on the line from Desoto to Madison. Replace bus and risers at Daleville station and replace bus and risers at Madison		AEP (100%)
b1435 Replace the 2870 MCM ACSR riser at the Sporn station		AEP (100%)
b1436 Perform a sag study on the Sorenson – Illinois Road 138 kV line to increase the emergency MOT for this line. Replace bus and risers at Illinois Road		AEP (100%)
b1437 Perform sag study on Rock Cr. – Hummel Cr. 138 kV to increase the emergency MOT for the line, replace bus and risers at Huntington J., and replace relays for Hummel Cr. – Hunt – Soren. Line at Soren		AEP (100%)
b1438 Replacement of risers at McKinley and Industrial Park stations and performance of a sag study for the 4.53 miles of 795 ACSR section is expected to improve the Summer Emergency rating to 335 MVA		AEP (100%)
b1439 By replacing the risers at Lincoln both the Summer Normal and Summer Emergency ratings will improve to 268 MVA		AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1440	By replacing the breakers at Lincoln the Summer Emergency rating will improve to 251 MVA	AEP (100%)
b1441	Replacement of risers at South Side and performance of a sag study for the 1.91 miles of 795 ACSR section is expected to improve the Summer Emergency rating to 335 MVA	AEP (100%)
b1442	Replacement of 954 ACSR conductor with 1033 ACSR and performance of a sag study for the 4.54 miles of 2-636 ACSR section is expected	AEP (100%)
b1443	Station work at Thelma and Busseyville Stations will be performed to replace bus and risers	AEP (100%)
b1444	Perform electrical clearance studies on Clinch River – Clinchfield 139 kV line (a.k.a. sag studies) to determine if the emergency ratings can be utilized	AEP (100%)
b1445	Perform a sag study on the Addison (Buckeye CO-OP) – Thinever and North Crown City – Thivener 138 kV sag study and switch	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1446	Perform a sag study on the Parkersburg (Allegheny Power) – Belpre (AEP) 138 kV	AEP (100%)
b1447	Dexter – Elliot tap 138 kV sag check	AEP (100%)
b1448	Dexter – Meigs 138 kV Electrical Clearance Study	AEP (100%)
b1449	Meigs tap – Rutland 138 kV sag check	AEP (100%)
b1450	Muskingum – North Muskingum 138 kV sag check	AEP (100%)
b1451	North Newark – Sharp Road 138 kV sag check	AEP (100%)
b1452	North Zanesville – Zanesville 138 kV sag check	AEP (100%)
b1453	North Zanesville – Powelson and Ohio Central – Powelson 138 kV sag check	AEP (100%)
b1454	Perform an electrical clearance study on the Ross – Delano – Scioto Trail 138 kV line to determine if the emergency rating can be utilized	AEP (100%)
b1455	Perform a sag check on the Sunny – Canton Central – Wagenhals 138 kV line to determine if all circuits can be operated at their summer emergency rating	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1456	The Tidd – West Bellaire 345 kV circuit has been de-rated to its normal rating and would need an electrical clearance study to determine if the emergency rating can be utilized	AEP (100%)
b1457	The Tiltonsville – Windsor 138 kV circuit has been derated to its normal rating and would need an electrical clearance study to determine if the emergency rating could be utilized	AEP (100%)
b1458	Install three new 345 kV breakers at Bixby to separate the Marquis 345 kV line and transformer #2. Operate Circleville – Harrison 138 kV and Harrison – Zuber 138 kV up to conductor emergency ratings	AEP (100%)
b1459	Several circuits have been de-rated to their normal conductor ratings and could benefit from electrical clearance studies to determine if the emergency rating could be utilized	AEP (100%)
b1460	Replace 2156 & 2874 risers	AEP (100%)
b1461	Replace meter, metering CTs and associated equipment at the Paden City feeder	AEP (100%)
b1462	Replace relays at both South Cadiz 138 kV and Tidd 138 kV	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1463	Reconductor the Bexley – Groves 138 kV circuit	AEP (100%)
b1464	Corner 138 kV upgrades	AEP (100%)
b1465.1	Add a 3rd 2250 MVA 765/345 kV transformer at Sullivan station	AEC (0.71%) / AEP (75.06%) / APS (1.25%) / BGE (1.81%) / ComEd (5.91%) / Dayton (0.86%) / DL (1.23%) / DPL (0.95%) / Dominion (3.89%) / JCPL (1.58%) / NEPTUNE (0.15%) / HTP (0.07%) / PECO (2.08%) / PEPSCO (1.66%) / ECP (0.07%)** / PSEG (2.62%) / RE (0.10%)
b1465.2	Replace the 100 MVAR 765 kV shunt reactor bank on Rockport – Jefferson 765 kV line with a 300 MVAR bank at Rockport Station	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPSCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1465.3 Transpose the Rockport – Sullivan 765 kV line and the Rockport – Jefferson 765 kV line		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1465.4 Make switching improvements at Sullivan and Jefferson 765 kV stations		AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1466.1 Create an in and out loop at Adams Station by removing the hard tap that currently exists		AEP (100%)
b1466.2 Upgrade the Adams transformer to 90 MVA		AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1466.3	At Seaman Station install a new 138 kV bus and two new 138 kV circuit breakers	AEP (100%)
b1466.4	Convert South Central Co-op's New Market 69 kV Station to 138 kV	AEP (100%)
b1466.5	The Seaman – Highland circuit is already built to 138 kV, but is currently operating at 69 kV, which would now increase to 138 kV	AEP (100%)
b1466.6	At Highland Station, install a new 138 kV bus, three new 138 kV circuit breakers and a new 138/69 kV 90 MVA transformer	AEP (100%)
b1466.7	Using one of the bays at Highland, build a 138 kV circuit from Hillsboro – Highland 138 kV, which is approximately 3 miles	AEP (100%)
b1467.1	Install a 14.4 MVar Capacitor Bank at New Buffalo station	AEP (100%)
b1467.2	Reconfigure the 138 kV bus at LaPorte Junction station to eliminate a contingency resulting in loss of two 138 kV sources serving the LaPorte area	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1468.1	Expand Selma Parker Station and install a 138/69/34.5 kV transformer	AEP (100%)
b1468.2	Rebuild and convert 34.5 kV line to Winchester to 69 kV, including Farmland Station	AEP (100%)
b1468.3	Retire the 34.5 kV line from Haymond to Selma Wire	AEP (100%)
b1469.1	Conversion of the Newcomerstown – Cambridge 34.5 kV system to 69 kV operation	AEP (100%)
b1469.2	Expansion of the Derwent 69 kV Station (including reconfiguration of the 69 kV system)	AEP (100%)
b1469.3	Rebuild 11.8 miles of 69 kV line, and convert additional 34.5 kV stations to 69 kV operation	AEP (100%)
b1470.1	Build a new 138 kV double circuit off the Kanawha – Bailyville #2 138 kV circuit to Skin Fork Station	AEP (100%)
b1470.2	Install a new 138/46 kV transformer at Skin Fork	AEP (100%)
b1470.3	Replace 5 Moab’s on the Kanawha – Baileysville line with breakers at the Sundial 138 kV station	AEP (100%)
b1471	Perform a sag study on the East Lima – For Lima – Rockhill 138 kV line to increase the emergency rating	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1472	Perform a sag study on the East Lima – Haviland 138 kV line to increase the emergency rating	AEP (100%)
b1473	Perform a sag study on the East New Concord – Muskingum River section of the Muskingum River – West Cambridge 138 kV circuit	AEP (100%)
b1474	Perform a sag study on the Ohio Central – Prep Plant tap 138 kV circuit	AEP (100%)
b1475	Perform a sag study on the S73 – North Delphos 138 kV line to increase the emergency rating	AEP (100%)
b1476	Perform a sag study on the S73 – T131 138 kV line to increase the emergency rating	AEP (100%)
b1477	The Natrium – North Martin 138 kV circuit would need an electrical clearance study among other equipment upgrades	AEP (100%)
b1478	Upgrade Strouds Run – Strouds Tap 138 kV relay and riser	AEP (100%)
b1479	West Hebron station upgrades	AEP (100%)
b1480	Perform upgrades and a sag study on the Corner – Layman 138 kV section of the Corner – Muskingum River 138 kV circuit	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1481	Perform a sag study on the West Lima – Eastown Road – Rockhill 138 kV line and replace the 138 kV risers at Rockhill station to increase the emergency rating	AEP (100%)
b1482	Perform a sag study for the Albion – Robison Park 138 kV line to increase its emergency rating	AEP (100%)
b1483	Sag study 1 mile of the Clinch River – Saltville 138 kV line and replace the risers and bus at Clinch River, Lebanon and Elk Garden Stations	AEP (100%)
b1484	Perform a sag study on the Hacienda – Harper 138 kV line to increase the emergency rating	AEP (100%)
b1485	Perform a sag study on the Jackson Road – Concord 183 kV line to increase the emergency rating	AEP (100%)
b1486	The Matt Funk – Poages Mill – Starkey 138 kV line requires	AEP (100%)
b1487	Perform a sag study on the New Carlisle – Trail Creek 138 kV line to increase the emergency rating	AEP (100%)
b1488	Perform a sag study on the Olive – LaPorte Junction 138 kV line to increase the emergency rating	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1489	A sag study must be performed for the 5.40 mile Tristate – Chadwick 138 kV line to determine if a higher emergency rating can be used	AEP (100%)
b1490.1	Establish a new 138/69 kV Butler Center station	AEP (100%)
b1490.2	Build a new 14 mile 138 kV line from Auburn station to Woods Road station VIA Butler Center station	AEP (100%)
b1490.3	Replace the existing 40 MVA 138/69 kV transformer at Auburn station with a 90 MVA 138/96 kV transformer	AEP (100%)
b1490.4	Improve the switching arrangement at Kendallville station	AEP (100%)
b1491	Replace bus and risers at Thelma and Busseyville stations and perform a sag study for the Big Sandy – Busseyville 138 kV line	AEP (100%)
b1492	Reconductor 0.65 miles of the Glen Lyn – Wythe 138 kV line with 3 – 1590 ACSR	AEP (100%)
b1493	Perform a sag study for the Bellfonte – Grantston 138 kV line to increase its emergency rating	AEP (100%)
b1494	Perform a sag study for the North Proctorville – Solida – Bellefonte 138 kV line to increase its emergency rating	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1495	Add an additional 765/345 kV transformer at Baker Station	AEC (0.41%) / AEP (87.22%) / BGE (1.03%) / ComEd (3.38%) / Dayton (1.23%) / DL (1.46%) / DPL (0.54%) / JCPL (0.90%) / NEPTUNE (0.09%) / HTP (0.04%) / PECO (1.18%) / PEPCO (0.94%) / ECP** (0.04%) / PSEG (1.48%) / RE (0.06%)
b1496	Replace 138 kV bus and risers at Johnson Mountain Station	AEP (100%)
b1497	Replace 138 kV bus and risers at Leesville Station	AEP (100%)
b1498	Replace 138 kV risers at Wurno Station	AEP (100%)
b1499	Perform a sag study on Sporn A – Gavin 138 kV to determine if the emergency rating can be improved	AEP (100%)
b1500	The North East Canton – Wagenhals 138 kV circuit would need an electrical clearance study to determine if the emergency rating can be utilized	AEP (100%)
b1501	The Moseley – Reusens 138 kV circuit requires a sag study to determine if the emergency rating can be utilized to address a thermal loading issue for a category C3	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1502	Reconductor the Conesville East – Conesville Prep Plant Tap 138 kV section of the Conesville – Ohio Central to fix Reliability N-1-1 thermal overloads	AEP (100%)
b1659	Establish Sorenson 345/138 kV station as a 765/345 kV station	AEP (93.61%) / ATSI (2.99%) / ComEd (2.07%) / HTP (0.03%) / PENELEC (0.31%) / ECP** (0.03%) / PSEG (0.92%) / RE (0.04%)
b1659.1	Replace Sorenson 138 kV breaker 'L1'	AEP (100%)
b1659.2	Replace Sorenson 138 kV breaker 'L2' breaker	AEP (100%)
b1659.3	Replace Sorenson 138 kV breaker 'M1'	AEP (100%)
b1659.4	Replace Sorenson 138 kV breaker 'M2'	AEP (100%)
b1659.5	Replace Sorenson 138 kV breaker 'N1'	AEP (100%)
b1659.6	Replace Sorenson 138 kV breaker 'N2'	AEP (100%)
b1659.7	Replace Sorenson 138 kV breaker 'O1'	AEP (100%)
b1659.8	Replace Sorenson 138 kV breaker 'O2'	AEP (100%)
b1659.9	Replace Sorenson 138 kV breaker 'M'	AEP (100%)
b1659.10	Replace Sorenson 138 kV breaker 'N'	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1659.11	Replace Sorenson 138 kV breaker 'O'	AEP (100%)
b1659.12	Replace McKinley 138 kV breaker 'L1'	AEP (100%)
b1659.13	Establish 765 kV yard at Sorenson and install four 765 kV breakers	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1659.14	Build approximately 14 miles of 765 kV line from existing Dumont - Marysville line	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1660	Install a 765/500 kV transformer at Cloverdale	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1661	Install a 765 kV circuit breaker at Wyoming station	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)

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Required Transmission Enhancements	Annual Revenue Requirement		Responsible Customer(s)
b1662	Rebuild 4 miles of 46 kV line to 138 kV from Pemberton to Cherry Creek		AEP (100%)
b1662.1	Circuit Breakers are installed at Cherry Creek (facing Pemberton) and at Pemberton (facing Tams Mtn. and Cherry Creek)		AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1662.2	Install three 138 kV breakers at Grandview Station (facing Cherry Creek, Hinton, and Bradley Stations)	AEP (100%)
b1662.3	Remove Sullivan Switching Station (46 kV)	AEP (100%)
b1663	Install a new 765/138 kV transformer at Jackson Ferry substation	AEP (100%)
b1663.1	Establish a new 10 mile double circuit 138 kV line between Jackson Ferry and Wythe	AEP (100%)
b1663.2	Install 2 765 kV circuit breakers, breaker disconnect switches and associated bus work for the new 765 kV breakers, and new relays for the 765 kV breakers at Jackson's Ferry	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1664	Install switched capacitor banks at Kenwood 138 kV stations	AEP (100%)
b1665	Install a second 138/69 kV transformer at Thelma station	AEP (100%)
b1665.1	Construct a single circuit 69 kV line from West Paintsville to the new Paintsville station	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1665.2	Install new 7.2 MVAR, 46 kV bank at Kenwood Station	AEP (100%)
b1666	Build an 8 breaker 138 kV station tapping both circuits of the Fostoria - East Lima 138 kV line	AEP (90.65%) / Dayton (9.35%)
b1667	Establish Melmore as a switching station with both 138 kV circuits terminating at Melmore. Extend the double circuit 138 kV line from Melmore to Fremont Center	AEP (100%)
b1668	Revise the capacitor setting at Riverside 138 kV station	AEP (100%)
b1669	Capacitor setting changes at Ross 138 kV stations	AEP (100%)
b1670	Capacitor setting changes at Wooster 138 kV station	AEP (100%)
b1671	Install four 138 kV breakers in Danville area	AEP (100%)
b1676	Replace Natrium 138 kV breaker 'G (rehab)'	AEP (100%)
b1677	Replace Huntley 138 kV breaker '106'	AEP (100%)
b1678	Replace Kammer 138 kV breaker 'G'	AEP (100%)
b1679	Replace Kammer 138 kV breaker 'H'	AEP (100%)
b1680	Replace Kammer 138 kV breaker 'J'	AEP (100%)
b1681	Replace Kammer 138 kV breaker 'K'	AEP (100%)
b1682	Replace Kammer 138 kV breaker 'M'	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1683	Replace Kammer 138 kV breaker 'N'	AEP (100%)
b1684	Replace Clinch River 138 kV breaker 'E1'	AEP (100%)
b1685	Replace Lincoln 138 kV breaker 'D'	AEP (100%)
b1687	Advance s0251.7 (Replace Corrid 138 kV breaker '104S')	AEP (100%)
b1688	Advance s0251.8 (Replace Corrid 138 kV breaker '104C')	AEP (100%)
b1712.1	Perform sag study on Altavista - Leesville 138 kV line	Dominion (75.30%) / PEPCO (24.70%)
b1712.2	Rebuild the Altavista - Leesville 138 kV line	Dominion (75.30%) / PEPCO (24.70%)
b1733	Perform a sag study of the Bluff Point - Jauy 138 kV line. Upgrade breaker, wavetrap, and risers at the terminal ends	AEP (100%)
b1734	Perform a sag study of Randolph - Hodgins 138 kV line. Upgrade terminal equipment	AEP (100%)
b1735	Perform a sag study of R03 - Magely 138 kV line. Upgrade terminal equipment	AEP (100%)
b1736	Perform a sag study of the Industrial Park - Summit 138 kV line	AEP (100%)
b1737	Sag study of Newcomerstown - Hillview 138 kV line. Upgrade - terminal equipment	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1738	Perform a sag study of the Wolf Creek - Layman 138 kV line. -Upgrade terminal equipment including a 138 kV breaker and wavetrap	AEP (100%)
b1739	Perform a sag study of the Ohio Central - West Trinway 138 kV line	AEP (100%)
b1741	Replace Beatty 138 kV breaker '2C(IPP)'	AEP (100%)
b1742	Replace Beatty 138 kV breaker '1E'	AEP (100%)
b1743	Replace Beatty 138 kV breaker '2E'	AEP (100%)
b1744	Replace Beatty 138 kV breaker '3C'	AEP (100%)
b1745	Replace Beatty 138 kV breaker '2W'	AEP (100%)
b1746	Replace St. Claire 138 kV breaker '8'	AEP (100%)
b1747	Replace Cloverdale 138 kV breaker 'C'	AEP (100%)
b1748	Replace Cloverdale 138 kV breaker 'D1'	AEP (100%)
b1780	Install two 138kV breakers and two 138kV circuit switchers at South Princeton Station and one 138kV breaker and one 138kV circuit switcher at Switchback Station	AEP (100%)
b1781	Install three 138 kV breakers and a 138kV circuit switcher at Trail Fork Station in Pineville, WV	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1782	Install a 46kV Moab at Montgomery Station facing Carbondale (on the London - Carbondale 46 kV circuit)	AEP (100%)
b1783	Add two 138 kV Circuit Breakers and two 138 kV circuit switchers on the Lonesome Pine - South Bluefield 138 kV line	AEP (100%)
b1784	Install a 52.8 MVAR capacitor bank at the Clifford 138 kV station	AEP (100%)
b1811.1	Perform a sag study of 4 miles of the Waterford - Muskingum line	AEP (100%)
b1811.2	Rebuild 0.1 miles of Waterford - Muskingum 345 kV with 1590 ACSR	AEP (100%)
b1812	Reconductor the AEP portion of the South Canton - Harmon 345 kV with 954 ACSR and upgrade terminal equipment at South Canton. Expected rating is 1800 MVA S/N and 1800 MVA S/E	AEP (100%)
b1817	Install (3) 345 kV circuit breakers at East Elkhart station in ring bus designed as a breaker and half scheme	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1818	Expand the Allen station by installing a second 345/138 kV transformer and adding four 138 kV exits by cutting in the Lincoln - Sterling and Milan - Timber Switch 138 kV double circuit tower line	AEP (88.30%) / ATSI (8.86%) / Dayton (2.84%)
b1819	Rebuild the Robinson Park - Sorenson 138 kV line corridor as a 345 kV double circuit line with one side operated at 345 kV and one side at 138 kV	AEP (87.18%) / ATSI (10.06%) / Dayton (2.76%)
b1859	Perform a sag study for Hancock - Cave Spring - Roanoke 138 kV circuit to reach new SE ratings of 272MVA (Cave Spring-Hancock), 205MVA (Cave Spring-Sunscape), 245MVA (ROANO2-Sunscape)	AEP (100%)
b1860	Perform a sag study on the Crooksville - Spencer Ridge section (14.3 miles) of the Crooksville-Poston-Strouds Run 138 kV circuit to see if any remedial action needed to reach the SE rating (175MVA)	AEP (100%)
b1861	Reconductor 0.83 miles of the Dale - West Canton 138 kV Tie-line and upgrade risers at West Canton 138 kV	AEP (100%)
b1862	Perform a sag study on the Grant - Greentown 138 kV circuit and replace the relay CT at Grant 138 kV station to see if any remedial action needed to reach the new ratings of 251/286MVA	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1863	Perform a sag study of the Kammer - Wayman SW 138 kV line to see if any remedial action needed to reach the new SE rating of 284MVA	AEP (100%)
b1864.1	Add two additional 345/138 kV transformers at Kammer	AEP (87.22%) / APS (8.22%) / ATSI (3.52%) / DL (1.04%)
b1864.2	Add second West Bellaire - Brues 138 kV circuit	AEP (87.22%) / APS (8.22%) / ATSI (3.52%) / DL (1.04%)
b1864.3	Replace Kammer 138 kV breaker 'E'	AEP (100%)
b1865	Perform a sag study on the Kanawha - Carbondale 138 kV line to see if any remedial action needed to reach the new ratings of 251/335MVA	AEP (100%)
b1866	Perform a sag study on the Clinch River-Lock Hart-Dorton 138kV line, increase the Relay Compliance Trip Limit at Clinch River on the C.R.-Dorton 138kV line to 310 and upgrade the risers with 1590ACSR	AEP (100%)
b1867	Perform a sag study on the Newcomerstown - South Coshocton 138 kV line to see if any remedial action is needed to reach the new SE rating of 179MVA	AEP (100%)
b1868	Perform sag study on the East Lima - new Liberty 138 kV line to see if any remedial action is needed to reach the new SE rating of 219MVA	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1869	Perform a sag study of the Ohio Central - South Coshocton 138 kV circuit to see if any remedial action needed to reach the new SE ratings of 250MVA	AEP (100%)
b1870	Replace the Ohio Central transformer #1 345/138/12 kV 450 MVA for a 345/138/34.5 kV 675 MVA transformer	AEP (68.16%) / ATSI (25.27%) / Dayton (3.88%) / PENELEC (1.59%) / DEOK (1.10%)
b1871	Perform a sag study on the Central - West Coshocton 138 kV line (improving the emergency rating of this line to 254 MVA)	AEP (100%)
b1872	Add a 57.6 MVar capacitor bank at East Elkhart 138 kv station in Indiana	AEP (100%)
b1873	Install two 138 kV circuit breakers at Cedar Creek Station and primary side circuit switcher on the 138/69/46 kV transformer	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1874	Install two 138 kV circuit breakers and one 138 kV circuit switcher at Magely 138 kV station in Indiana	AEP (100%)
b1875	Build 25 miles of new 138 kV line from Bradley Station through Tower 117 Station and terminating at McClung 138 kV station. Existing 69 kV distribution transformers will be replaced with 138 kV transformers	AEP (100%)
b1876	Install a 14.4 MVar capacitor bank at Capital Avenue (AKA Currant Road) 34.5 kV bus	AEP (100%)
b1877	Relocate 138 kV Breaker G to the West Kingsport - Industry Drive 138 kV line and Remove 138 kV MOAB	AEP (100%)
b1878	Perform a sag study on the Lincoln - Robinson Park 138 kV line (Improve the emergency rating to 244 MVA)	AEP (100%)
b1879	Perform a sag study on the Hansonville - Meadowview 138 kV line (Improve the emergency rating to 245 MVA)	AEP (100%)
b1880	Rebuild the 15 miles of the Moseley - Roanoke 138 kV line. This project would consist of rebuilding both circuits on the double circuit line	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1881	Replace existing 600 Amp switches, station risers and increase the CT ratios associated with breaker 'G' at Sterling 138 kV Station. It will increase the rating to 296 MVA S/N and 384 MVA S/E	AEP (100%)
b1882	Perform a sag study on the Bluff Point - Randolph 138 kV line to see if any remedial action needed to reach the new SE rating of 255 MVA	AEP (100%)
b1883	Switch the breaker position of transformer #1 and SW Lima at East Lima 345 kV bus	AEP (100%)
b1884	Perform a sag study on Strawton station - Fisher Body - Deer Creek 138 kV line to see if any remedial action needed to reach the new SE rating of 250 MVA	AEP (100%)
b1887	Establish a new 138/69 kV source at Carrollton and construct two new 69 kV lines from Carrollton to tie into the Dennison - Miller SW 69 kV line and to East Dover 69 kV station respectively	AEP (100%)
b1888	Install a 69 kV line breaker at Blue Pennant 69 kV Station facing Bim Station and 14.4 MVA capacitor bank	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1889	Install a 43.2 MVAR capacitor bank at Hinton 138 kV station (APCO WV)	AEP (100%)
b1901	Rebuild the Ohio Central - West Trinway (4.84 miles) section of the Academia - Ohio Central 138 kV circuit. Upgrade the Ohio Central riser, Ohio Central switch and the West Trinway riser	AEP (100%)
b1904.1	Construct new 138/69 Michiana Station near Bridgman by tapping the new Carlisle - Main Street 138 kV and the Bridgman - Buchanan Hydro 69 kV line	AEP (100%)
b1904.2	Establish a new 138/12 kV New Galien station by tapping the Olive - Hickory Creek 138 kV line	AEP (100%)
b1904.3	Retire the existing Galien station and move its distribution load to New Galien station. Retire the Buchanan Hydro - New Carlisle 34.5 kV line	AEP (100%)
b1904.4	Implement an in and out scheme at Cook 69 kV by eliminating the Cook 69 kV tap point and by installing two new 69 kV circuit breakers	AEP (100%)
b1904.5	Rebuild the Bridgman - Cook 69 kV and the Derby - Cook 69 kV lines	AEP (100%)
b1946	Perform a sag study on the Brues - West Bellaire 138 kV line	AEP (100%)
b1947	A sag study of the Dequine - Meadowlake 345 kV line #1 line may improve the emergency rating to 1400 MVA	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1948 Establish a new 765/345 interconnection at Sporn. Install a 765/345 kV transformer at Mountaineer and build ¾ mile of 345 kV to Sporn		ATSI (61.08%) / DL (21.87%) / Dominion (13.97%) / PENELEC (3.08%)
b1949 Perform a sag study on the Grant Tap – Deer Creek 138 kV line and replace bus and risers at Deer Creek station		AEP (100%)
b1950 Perform a sag study on the Kammer – Ormet 138 kV line of the conductor section		AEP (100%)
b1951 Perform a sag study of the Maddox- Convoy 345 kV line to improve the emergency rating to 1400 MVA		AEP (100%)
b1952 Perform a sag study of the Maddox – T130 345 kV line to improve the emergency rating to 1400 MVA		AEP (100%)
b1953 Perform a sag study of the Meadowlake - Olive 345 kV line to improve the emergency rating to 1400 MVA		AEP (100%)
b1954 Perform a sag study on the Milan - Harper 138 kV line and replace bus and switches at Milan Switch station		AEP (100%)
b1955 Perform a sag study of the R-049 - Tillman 138 kV line may improve the emergency rating to 245 MVA		AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1956	Perform a sag study of the Tillman - Dawkins 138 kV line may improve the emergency rating to 245 MVA	AEP (100%)
b1957	Terminate Transformer #2 at SW Lima in a new bay position	AEP (69.41%) / ATSI (23.11%) / ECP** (0.17%) / HTP (0.19%) / PENELEC (2.42%) / PSEG (4.52%) / RE (0.18%)
b1958	Perform a sag study on the Brookside - Howard 138 kV line and replace bus and risers at AEP Howard station	AEP (100%)
b1960	Sag Study on 7.2 miles SE Canton-Canton Central 138kV ckt	AEP (100%)
b1961	Sag study on the Southeast Canton – Sunnyside 138kV line	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1962	Add four 765 kV breakers at Kammer	AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%) / ECP** (0.20%)
b1963	Build approximately 1 mile of circuit comprising of 2-954 ACSR to get the rating of Waterford-Muskinum 345 kV higher	AEP (100%)
b1970	Reconductor 13 miles of the Kammer – West Bellaire 345kV circuit	APS (33.51%) / ATSI (32.21%) / DL (18.64%) / Dominion (6.01%) / ECP** (0.10%) / HTP (0.11%) / JCPL (1.68%) / Neptune* (0.18%) / PENELEC (4.58%) / PSEG (2.87%) / RE (0.11%)
b1971	Perform a sag study to improve the emergency rating on the Bridgville – Chandlersville 138 kV line	AEP (100%)
b1972	Replace disconnect switch on the South Canton 765/345 kV transformer	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1973	Perform a sag study to improve the emergency rating on the Carrollton – Sunnyside 138 kV line	AEP (100%)
b1974	Perform a sag study to improve the emergency rating on the Bethel Church – West Dover 138 kV line	AEP (100%)
b1975	Replace a switch at South Millersburg switch station	AEP (100%)
b2017	Reconductor or rebuild Sporn - Waterford - Muskingum River 345 kV line	ATSI (37.04%) / AEP (34.35%) / DL (10.41%) / Dominion (6.19%) / APS (3.94%) / PENELEC (3.09%) / JCPL (1.39%) / Dayton (1.20%) / Neptune* (0.14%) / HTP (0.09%) / ECP** (0.08%) / PSEG (2.00%) / RE (0.08%)
b2018	Loop Conesville - Bixby 345 kV circuit into Ohio Central	ATSI (58.58%) / AEP (14.16%) / APS (12.88%) / DL (7.93%) / PENELEC (5.73%) / Dayton (0.72%)
b2019	Establish Burger 345/138 kV station	AEP (93.74%) / APS (4.40%) / DL (1.11%) / ATSI (0.74%) / PENELEC (0.01%)
b2020	Rebuild Amos - Kanawah River 138 kV corridor	AEP (88.39%) / APS (7.12%) / ATSI (2.89%) / DEOK (1.58%) / PEPCO (0.02%)
b2021	Add 345/138 transformer at Sporn, Kanawah River & Muskingum River stations	AEP (91.92%) / DEOK (3.60%) / APS (2.19%) / ATSI (1.14%) / DL (1.08%) / PEPCO (0.04%) / BGE (0.03%)
b2021.1	Replace Kanawah 138 kV breaker 'L'	AEP (100%)
b2021.2	Replace Muskingum 138 kV breaker 'HG'	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2021.3	Replace Muskingum 138 kV breaker 'HJ'	AEP (100%)
b2021.4	Replace Muskingum 138 kV breaker 'HE'	AEP (100%)
b2021.5	Replace Muskingum 138 kV breaker 'HD'	AEP (100%)
b2021.6	Replace Muskingum 138 kV breaker 'HF'	AEP (100%)
b2021.7	Replace Muskingum 138 kV breaker 'HC'	AEP (100%)
b2021.8	Replace Sporn 138 kV breaker 'D1'	AEP (100%)
b2021.9	Replace Sporn 138 kV breaker 'D2'	AEP (100%)
b2021.10	Replace Sporn 138 kV breaker 'F1'	AEP (100%)
b2021.11	Replace Sporn 138 kV breaker 'F2'	AEP (100%)
b2021.12	Replace Sporn 138 kV breaker 'G'	AEP (100%)
b2021.13	Replace Sporn 138 kV breaker 'G2'	AEP (100%)
b2021.14	Replace Sporn 138 kV breaker 'N1'	AEP (100%)
b2021.15	Replace Kanawah 138 kV breaker 'M'	AEP (100%)
b2022	Terminate Tristate - Kyger Creek 345 kV line at Sporn	AEP (97.99%) / DEOK (2.01%)
b2027	Perform a sag study of the Tidd - Collier 345 kV line	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2028	Perform a sag study on East Lima - North Woodcock 138 kV line to improve the rating	AEP (100%)
b2029	Perform a sag study on Bluebell - Canton Central 138 kV line to improve the rating	AEP (100%)
b2030	Install 345 kV circuit breakers at West Bellaire	AEP (100%)
b2031	Sag study on Tilton - W. Bellaire section 1 (795 ACSR), about 12 miles	AEP (100%)
b2032	Rebuild 138 kV Elliot tap - Poston line	ATSI (73.02%) / Dayton (19.39%) / DL (7.59%)
b2033	Perform a sag study of the Brues - W. Bellaire 138 kV line	AEP (100%)
b2046	Adjust tap settings for Muskingum River transformers	AEP (100%)
b2047	Replace relay at Greenlawn	AEP (100%)
b2048	Replace both 345/138 kV transformers with one bigger transformer	AEP (92.49%) / Dayton (7.51%)
b2049	Replace relay	AEP (100%)
b2050	Perform sag study	AEP (100%)
b2051	Install 3 138 kV breakers and a circuit switcher at Dorton station	AEP (100%)
b2052	Replace transformer	AEP (67.17%) / ATSI (27.37%) / Dayton (3.73%) / PENELEC (1.73%)
b2054	Perform a sag study of Sporn - Rutland 138 kV line	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2069	Replace George Washington 138 kV breaker 'A' with 63kA rated breaker	AEP (100%)
b2070	Replace Harrison 138 kV breaker '6C' with 63kA rated breaker	AEP (100%)
b2071	Replace Lincoln 138 kV breaker 'L' with 63kA rated breaker	AEP (100%)
b2072	Replace Natrum 138 kV breaker 'T' with 63kA rated breaker	AEP (100%)
b2073	Replace Darrah 138 kV breaker 'B' with 63kA rated breaker	AEP (100%)
b2074	Replace Wyoming 138 kV breaker 'G' with 80kA rated breaker	AEP (100%)
b2075	Replace Wyoming 138 kV breaker 'G1' with 80kA rated breaker	AEP (100%)
b2076	Replace Wyoming 138 kV breaker 'G2' with 80kA rated breaker	AEP (100%)
b2077	Replace Wyoming 138 kV breaker 'H' with 80kA rated breaker	AEP (100%)
b2078	Replace Wyoming 138 kV breaker 'H1' with 80kA rated breaker	AEP (100%)
b2079	Replace Wyoming 138 kV breaker 'H2' with 80kA rated breaker	AEP (100%)
b2080	Replace Wyoming 138 kV breaker 'J' with 80kA rated breaker	AEP (100%)

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

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2081	Replace Wyoming 138 kV breaker 'J1' with 80kA rated breaker	AEP (100%)
b2082	Replace Wyoming 138 kV breaker 'J2' with 80kA rated breaker	AEP (100%)
b2083	Replace Natrum 138 kV breaker 'K' with 63kA rated breaker	AEP (100%)
b2084	Replace Tanner Creek 345 kV breaker 'P' with 63kA rated breaker	AEP (100%)
b2085	Replace Tanner Creek 345 kV breaker 'P2' with 63kA rated breaker	AEP (100%)
b2086	Replace Tanner Creek 345 kV breaker 'Q1' with 63kA rated breaker	AEP (100%)
b2087	Replace South Bend 138 kV breaker 'T' with 63kA rated breaker	AEP (100%)
b2088	Replace Tidd 138 kV breaker 'L' with 63kA rated breaker	AEP (100%)
b2089	Replace Tidd 138 kV breaker 'M2' with 63kA rated breaker	AEP (100%)
b2090	Replace McKinley 138 kV breaker 'A' with 40kA rated breaker	AEP (100%)
b2091	Replace West Lima 138 kV breaker 'M' with 63kA rated breaker	AEP (100%)
b2092	Replace George Washington 138 kV breaker 'B' with 63kA rated breaker	AEP (100%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2093	Replace Turner 138 kV breaker 'W' with 63kA rated breaker	AEP (100%)
b2135	Build a new 138 kV line from Falling Branch to Merrimac and add a 138/69 kV transformer at Merrimac Station	AEP (100%)
b2160	Add a fourth circuit breaker to the station being built for the U4-038 project (Conelley), rebuild U4-038 - Grant Tap line as double circuit tower line	AEP (100%)
b2161	Rebuild approximately 20 miles of the Allen - S073 double circuit 138 kV line (with one circuit from Allen - Tillman - Timber Switch - S073 and the other circuit from Allen - T-131 - S073) utilizing 1033 ACSR	AEP (100%)
b2162	Perform a sag study to improve the emergency rating of the Belpre - Degussa 138 kV line	AEP (100%)
b2163	Replace breaker and wavetrap at Jay 138 kV station	AEP (100%)

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

SCHEDULE 12 – APPENDIX A

- (17) **AEP Service Corporation on behalf of its Affiliate Companies (AEP Indiana Michigan Transmission Company, AEP Kentucky Transmission Company, AEP Ohio Transmission Company, AEP West Virginia Transmission Company, Appalachian Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company)**

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
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 align="center">Load-Ratio Share Allocation:</p> <p align="center">AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / ECP** (0.20%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p align="center">DFAX Allocation:</p> <p align="center">APS (48.49%) / DEOK (0.24%) / Dominion (0.65%) / EKPC (0.07%) / PEPCO (50.55%)</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>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (4.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / DPL (2.62%) / ECP** (0.20%) / Dominion (12.39%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: AEP (0.28%) / APS (42.58%) / ATSI (0.13%) / BGE (21.34%) / Dayton (0.05%) / DEOK (0.15%) / Dominion (0.32%) / EKPC (0.04%) / PEPCO (35.11%)</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>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: 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%)
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%)

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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2287	Loop in the Meadow Lake - Olive 345 kV circuit into Reynolds 765/345 kV station		AEP (100%)
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%)

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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2345.2	Rebuild the 34.5 kV lines between Keeler - Sister Lakes and Glenwood tap switch to 69 kV (~12 miles)		AEP (100%)
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>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: 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 80kA breaker		AEP (100%)
b2531	Replace the Sporn 138 kV breaker 'D' with 80kA breaker		AEP (100%)
b2532	Replace the Sporn 138 kV breaker 'O1' with 80kA breaker		AEP (100%)
b2533	Replace the Sporn 138 kV breaker 'P2' with 80kA breaker		AEP (100%)
b2534	Replace the Sporn 138 kV breaker 'U' with 80kA 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%)
b2601.5	Install two (2) circuit switchers on high side of transformers # 2 and 3 at Fremont Station		AEP (100%)

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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

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)

b2605	Rebuild and reconductor Kammer – George Washington 69 kV circuit and George Washington – Moundsville ckt #1, designed for 138kV. 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 40kA 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 (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%)

AEP Service Corporation on behalf of its Affiliate Companies (AEP Indiana Michigan Transmission Company, AEP Kentucky Transmission Company, AEP Ohio Transmission Company, AEP West Virginia Transmission Company, Appalachian Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company) (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2687.1	Install a +/- 450 MVAR SVC at Jacksons Ferry 765 kV substation	<p>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: AEP (100%)</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 Indiana Michigan Transmission Company, AEP Kentucky Transmission Company, AEP Ohio Transmission Company, AEP West Virginia Transmission Company, Appalachian Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company) (cont.)

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>Load-Ratio Share Allocation: AEC (1.70%) / AEP (14.25%) / APS (5.53%) / ATSI (8.09%) / BGE (44.19%) / ComEd (13.43%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.77%) / Dominion (12.39%) / DPL (2.62%) / ECP** (0.20%) / EKPC (1.82%) / HTP*** (0.20%) / JCPL (3.78%) / ME (1.87%) / NEPTUNE* (0.42%) / PECO (5.30%) / PENELEC (1.84%) / PEPCO (4.18%) / PPL (4.46%) / PSEG (6.22%) / RE (0.25%)</p> <p>DFAX Allocation: 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

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

*** Hudson Transmission Partners, LLC

AEP Service Corporation on behalf of its Affiliate Companies (AEP Indiana Michigan Transmission Company, AEP Kentucky Transmission Company, AEP Ohio Transmission Company, AEP West Virginia Transmission Company, Appalachian Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company) (cont.)

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%)
2701.3	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	<i>Replace the South Canton 138 kV breakers 'K', 'J', 'J1', and 'J2' with 80kA breakers</i>		<i>AEP (100%)</i>

AEP Service Corporation on behalf of its Affiliate Companies (AEP Indiana Michigan Transmission Company, AEP Kentucky Transmission Company, AEP Ohio Transmission Company, AEP West Virginia Transmission Company, Appalachian Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company) (cont.)

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%)
b2750.1	<i>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</i>		<i>AEP (100%)</i>
b2750.2	<i>Relocate the Betsy Layne capacitor bank to the Stanville 69 kV bus and increase the size to 14.4 MVAR</i>		<i>AEP (100%)</i>
b2753.1	<i>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</i>		<i>AEP (100%)</i>
b2753.2	<i>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</i>		<i>AEP (100%)</i>

AEP Service Corporation on behalf of its Affiliate Companies (AEP Indiana Michigan Transmission Company, AEP Kentucky Transmission Company, AEP Ohio Transmission Company, AEP West Virginia Transmission Company, Appalachian Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company) (cont.)

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%)

AEP Service Corporation on behalf of its Affiliate Companies (AEP Indiana Michigan Transmission Company, AEP Kentucky Transmission Company, AEP Ohio Transmission Company, AEP West Virginia Transmission Company, Appalachian Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company) (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

<i>b2760</i>	<i>Perform a Sag Study of the Saltville – Tazewell 138 kV line to increase the thermal rating of the line</i>		<i>AEP (100%)</i>
<i>b2761.1</i>	<i>Replace the Hazard 161/138 kV transformer</i>		<i>AEP (100%)</i>
<i>b2761.2</i>	<i>Perform a Sag Study of the Hazard – Wooten 161 kV line to increase the thermal rating of the line</i>		<i>AEP (100%)</i>
<i>b2762</i>	<i>Perform a Sag Study of Nagel – West Kingsport 138 kV line to increase the thermal rating of the line</i>		<i>AEP (100%)</i>
<i>b2776</i>	<i>Reconductor the entire Dequine – Meadow Lake 345 kV circuit #2</i>		<i>AEP (100%)</i>
<i>b2777</i>	<i>Reconductor the entire Dequine – Eugene 345 kV circuit #1</i>		<i>AEP (100%)</i>

Attachment 8 Con Edison FERC Order

159 FERC ¶ 62,082
FEDERAL ENERGY REGULATORY COMMISSION
WASHINGTON, DC 20426

OFFICE OF ENERGY MARKET REGULATION

PJM Interconnection, L.L.C.
Docket Nos. ER17-950-000 and ER17-950-001

Issued: April 25, 2017

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

Attention: Pauline Foley, Esq.
Assistant General Counsel

Reference: Order Accepting and Suspending Filing, Subject to Refund, and
Further Commission Order

Dear Ms. Foley:

On February 8, 2017, as amended on February 13, 2017, pursuant to section 205 of the Federal Power Act,¹ PJM Interconnection, L.L.C. (PJM) submitted proposed revisions to Schedule 12-Appendix and Schedule 12-Appendix A of the PJM Open Access Transmission Tariff (Tariff).² PJM states that the filing revises cost responsibility assignments for Regional Facilities, Necessary Lower Voltage Facilities, and Lower Voltage Facilities included in the PJM Regional Transmission Expansion Plan (RTEP) due to termination of long-term firm point-to-point transmission service agreements entered into between PJM and Consolidated Edison Company of New York, Inc. (Con Edison). PJM requests the revised PJM Tariff sections become effective May 1, 2017. On February 13, 2017, PJM submitted an errata filing to correct Schedule 12-Appendix to include additional revisions to Old Dominion Electric Cooperative baseline upgrades that were inadvertently omitted from the Schedule 12-Appendix Tariff sheets.³

¹ 16 U.S.C. § 824d (2012).

² See Attachment A for a list of revised tariff records.

³ See Attachment B for a list of revised tariff records.

Notice of the February 8, 2017 filing was published in the *Federal Register*, 82 Fed. Reg. 10,766 (2017), and notice of the February 13, 2017 errata was published in the *Federal Register*, 82 Fed. Reg. 11,216 (2017), with interventions and protests due on or before March 1, 2017, and March 6, 2017, respectively. On February 21, 2017, New York Power Authority (NYPA) filed a motion to extend the period for filing comments and request a shortened answer period in this proceeding. On February 28, 2017, a Notice of Extension of Time was issued extending the comment deadline up to and including March 16, 2017. Pursuant to Rule 214 of the Commission's Rules of Practice and Procedure,⁴ any notices of intervention and timely filed, unopposed motions to intervene serve to make the filer a party to this proceeding.⁵ NYPA filed a motion to intervene and protest. North Carolina Electric Membership Corporation (NCEMC) filed a motion to intervene and a motion to intervene out-of-time. New Jersey Board of Public Utilities (NJBPU), Hudson Transmission Partners, LLC (Hudson), and Linden VFT, LLC (Linden) filed protests. New York Transmission Owners (NYTOs) filed an answer to NJBPU's protest. Con Edison filed an answer to the protests of NJBPU and Hudson. PJM Transmission Owners filed an answer to the protests of Linden and NYPA, and Public Service Electric and Gas Company (PSE&G) filed an answer to the protests of NYPA, Hudson, and Linden.

Protestors challenge the revised cost allocations assigned pursuant to the solution-based distribution factor (DFAX) method. Protestors contend that PJM does not support or explain the updated cost responsibility assignments. Protestors state that the Commission should reject PJM's proposed cost responsibility assignments, finding that the filing is deficient because PJM has failed to demonstrate that the proposed cost responsibility assignments are just and reasonable and not unduly discriminatory or preferential. In the alternative, protestors request that the Commission set the matter for hearing and settlement procedures in order to ensure that transmission costs are fairly allocated to the beneficiaries.

Preliminary analysis indicates that the proposed Tariff revisions have not been shown to be just and reasonable and may be unjust, unreasonable, unduly discriminatory or preferential, or otherwise unlawful. Therefore, pursuant to the authority delegated to the Director, Division of Electric Power Regulation – East, Office of Energy Market Regulation, in the Commission's February 3, 2017 Order Delegating Further Authority to

⁴ 18 C.F.R. § 385.214 (2016).

⁵ Any late and opposed motions to intervene will be addressed in a further Commission order as appropriate.

Staff in Absence of Quorum,⁶ PJM's proposed Tariff revisions are accepted for filing, suspended for a nominal period, to become effective May 1, 2017, as requested, subject to refund and further Commission order. Protests and comments will be addressed in a further Commission order as appropriate.

This acceptance for filing shall not be construed as constituting approval of the referenced filing or of any rate, charge, classification, or any rule, regulation, or practice affecting such rate or service contained in your filing; nor shall such acceptance be deemed as recognition of any claimed contractual right or obligation associated therewith; and such acceptance is without prejudice to any findings or orders which have been or may hereafter be made by the Commission in any proceeding now pending or hereafter instituted by or against PJM.

Consistent with Rule 1902 of the Commission's Rules of Practice and Procedure,⁷ requests for rehearing by the Commission may be filed within 30 days of the date of issuance of this order.⁸

Sincerely,

Kurt M. Longo, Director
Division of Electric Power
Regulation – East

⁶ *Agency Operations in the Absence of a Quorum*, 158 FERC ¶ 61,135 (2017).

⁷ 18 C.F.R. § 385.1902 (2016).

⁸ 18 C.F.R. § 385.713 (2016).

Attachment A

PJM Interconnection, L.L.C.
Intra-PJM Tariffs
Docket No. ER17-950-000

[SCHEDULE 12.APPENDIX 1, OATT SCHEDULE 12.APPENDIX 1 Atlantic City Electric Company, 13.0.0](#)

[SCHEDULE 12.APPENDIX 2, OATT SCHEDULE 12.APPENDIX 2 Baltimore Gas and Electric Com, 7.0.0](#)

[SCHEDULE 12.APPENDIX 3, OATT SCHEDULE 12.APPENDIX 3 Delmarva Power & Light Company, 14.0.0](#)

[SCHEDULE 12.APPENDIX 4, OATT SCHEDULE 12.APPENDIX 4 Jersey Central Power & Light C, 8.0.0](#)

[SCHEDULE 12.APPENDIX 5, OATT SCHEDULE 12.APPENDIX 5 Metropolitan Edison Company, 17.0.0](#)

[SCHEDULE 12.APPENDIX 7, OATT SCHEDULE 12.APPENDIX 7 Pennsylvania Electric Company, 17.0.0](#)

[SCHEDULE 12.APPENDIX 8, OATT SCHEDULE 12.APPENDIX 8 PECO Energy Company, 16.0.0](#)

[SCHEDULE 12.APPENDIX 9, OATT SCHEDULE 12.APPENDIX 9 PPL Electric Utilities Corpora, 16.0.0](#)

[SCHEDULE 12.APPENDIX 10, OATT SCHEDULE 12.APPENDIX 10 Potomac Electric Power Compan, 15.0.0](#)

[SCHEDULE 12.APPENDIX 12, OATT SCHEDULE 12.APPENDIX 12 Public Service Electric and G, 17.0.0](#)

[SCHEDULE 12.APPENDIX 14, OATT SCHEDULE 12.APPENDIX 14 Monongahela Power Company, Th, 19.0.0](#)

[SCHEDULE 12.APPENDIX 17, OATT SCHEDULE 12.APPENDIX 17 AEP Service Corporation, 17.0.0](#)

[SCHEDULE 12.APPENDIX 20, OATT SCHEDULE 12.APPENDIX 20 Virginia Electric and Power, 17.0.0](#)

[SCHEDULE 12.APPENDIX 22, OATT SCHEDULE 12.APPENDIX 22 NAEA Rock Springs, LLC, 9.0.0](#)

[SCHEDULE 12.APPX A - 2, OATT SCHEDULE 12.APPENDIX A - 2 Baltimore Gas and Electric, 5.0.0](#)

[SCHEDULE 12.APPX A - 3, OATT SCHEDULE 12.APPENDIX A - 3 Delmarva Power & Light Comp, 7.0.0](#)

[SCHEDULE 12.APPX A - 4, OATT SCHEDULE 12.APPENDIX A - 4 Jersey Central Power & Ligh, 9.0.0](#)

[SCHEDULE 12.APPX A - 5, OATT SCHEDULE 12.APPENDIX A - 5 Metropolitan Edison Company, 11.0.0](#)

[SCHEDULE 12.APPX A - 7, OATT SCHEDULE 12.APPENDIX A - 7 Pennsylvania Electric Compan, 10.0.0](#)

[SCHEDULE 12.APPX A - 8, OATT SCHEDULE 12.APPENDIX A - 8 PECO Energy Company, 8.0.0](#)

[SCHEDULE 12.APPX A - 9, OATT SCHEDULE 12.APPENDIX A - 9 PPL Electric Utilities Corpo, 10.0.0](#)

[SCHEDULE 12.APPX A - 12, OATT SCHEDULE 12.APPENDIX A - 12 Public Service Electric and, 12.0.0](#)

[SCHEDULE 12.APPX A - 14, OATT SCHEDULE 12.APPENDIX A - 14 Monongahela Power Company, 9.0.0](#)

[SCHEDULE 12.APPX A - 15, OATT SCHEDULE 12.APPENDIX A - 15 Commonwealth Edison Company, 8.0.0](#)

[SCHEDULE 12.APPX A - 17, OATT SCHEDULE 12.APPENDIX A - 17 AEP Service Corporation, 12.0.0](#)

[SCHEDULE 12.APPX A - 20, OATT SCHEDULE 12.APPENDIX A - 20 Virginia Electric and Power, 12.0.0](#)

[SCHEDULE 12.APPX A-26, OATT SCHEDULE 12.APPENDIX A - 26 Northeast Transmission Dev, 2.0.0](#)

Docket Nos. ER17-950-000 and ER17-950-001

- 6 -

Attachment B

PJM Interconnection, L.L.C.
Intra-PJM Tariffs
Docket No. ER17-950-001

[SCHEDULE 12.APPENDIX 6, OATT SCHEDULE 12.APPENDIX 6 Old Dominion
Electric Cooperat, 10.0.0](#)

Document Content(s)

ER17-950-000.DOCX.....1-6

Attachment 9 AEP East FERC Order

158 FERC ¶ 62,187

FEDERAL ENERGY REGULATORY COMMISSION
WASHINGTON, DC 20426

OFFICE OF ENERGY MARKET REGULATION

PJM Interconnection, L.L.C.
Docket Nos. ER17-405-000,
ER17-406-000 (Not Consolidated)

Issued: 3/10/17

American Electric Power Service Corp.
801 Pennsylvania Ave. NW
Suite 735
Washington, D.C., 20004-3436

Attention: Amanda Riggs Conner, Esq.
Attorney for American Electric Power Service Corp.

Reference: Order Accepting and Suspending Filing, Subject to Refund, and
Establishing Hearing and Settlement Judge Procedures

Dear Ms. Riggs Conner:

On November 22, 2016, pursuant to section 205 of the Federal Power Act,¹ PJM Interconnection, L.L.C. (PJM) submitted, on behalf of AEP East Operating Companies² and AEP East Transmission Companies (collectively, AEP),³ two filings with proposed revisions to its transmission formula rates (Formula Rates) and protocols (Protocols)

¹ 16 U.S.C. § 824d (2012).

² AEP East Operating Companies are: Appalachian Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company (Kingsport Power), Ohio Power Company, and Wheeling Power Company.

³ AEP East Transmission Companies are: AEP Appalachian Transmission Company Inc. (Appalachian Transmission Company), AEP Indiana Michigan Transmission Company Inc., AEP Kentucky Transmission Company Inc., AEP Ohio Transmission Company Inc., and AEP West Virginia Transmission Company.

intended to: (1) transition its Formula Rates from “historic” to “forward looking”; (2) add line items to pro-rate property-related accumulated deferred income tax (ADIT) in the projected test year and provide flow through of deferred tax liability items; (3) update Kingsport Power’s depreciation rates; (4) use the actual capital structure of each of the AEP East Transmission Companies; and (5) add other revisions to the Protocols and Formula Rates to conform to recent Commission guidance and existing PJM Tariff provisions. AEP states that the filings will reduce the lag in cost recovery, include computations required by the Internal Revenue Code, decrease annual transmission depreciation expenses for Kingsport Power, reflect the true cost of capital for AEP East Transmission Companies, and overhaul the Protocols to conform to recent Commission guidance. AEP seeks waiver of the Commission’s 60 day notice requirement⁴ to allow its filings to take effect January 1, 2017. On January 9, 2017, AEP submitted an amendment to its filings, stating that it was willing to make certain changes to its filings in order to resolve certain formula rate issues raised by protesters.

AEP’s filings and amendment were noticed on, respectively, November 22, 2016, and January 12, 2017, with interventions and protests due on or before December 13, 2016, and January 30, 2017. Pursuant to Rule 214 of the Commission’s Rules of Practice and Procedure,⁵ any notices of intervention and timely filed, unopposed motions to intervene serve to make the filer a party to these proceedings.⁶

Protestors challenge the filings on various grounds, disputing, among other things, the proposed plant balances, unfunded reserves, and protocols. They assert that the proposed tariff revisions lack transparency and could result in excessive rates.

AEP’s proposed tariff revisions raise issues of material fact that cannot be resolved based on the existing record, and are more appropriately addressed in hearing and settlement judge procedures. Preliminary analysis indicates that AEP’s proposed tariff revisions have not been shown to be just and reasonable and may be unjust, unreasonable, unduly discriminatory or preferential, or otherwise unlawful. Therefore, pursuant to the authority contained in and subject to the jurisdiction conferred upon the Federal Energy Regulatory Commission by section 402(a) of the Department of Energy

⁴ 18 C.F.R. § 35.3(a) (2016).

⁵ 18 C.F.R. § 385.214 (2016).

⁶ The Chief Administrative Law Judge or presiding officer, as appropriate, may rule on any late and opposed motions to intervene. *See* 18 C.F.R. §§ 375.304(a), 385.102(a), 385.214(c) and (d), and 385.504(b)(12) (2016). *See also, Cities of Anaheim*, 101 FERC 61,392 at P 13 (2002) (Chief Administrative Law Judge may, but settlement judges may not, rule on motions to intervene).

Organization Act and by the Federal Power Act, particularly sections 205 and 206 thereof, and pursuant to the Commission's Rules of Practice and Procedure and the regulations under the Federal Power Act (18 C.F.R. Chapter I), and pursuant to the authority delegated to the Director, Division of Electric Power Regulation – East, Office of Energy Market Regulation, in the Commission's February 3, 2017 Order Delegating Further Authority to Staff in Absence of Quorum,⁷ AEP's proposed tariff revisions are accepted for filing, suspended for a nominal period, to become effective January 1, 2017, as requested,⁸ subject to refund, and set for hearing and settlement judge procedures.⁹ Although this order directs that a public hearing shall be held concerning the justness and reasonableness of AEP's proposed tariff revisions, the hearing shall be held in abeyance to provide time for settlement judge procedures, as discussed below.

While these matters are set for a trial-type evidentiary hearing, parties are encouraged to make every effort to settle their disputes before hearing procedures are commenced. To aid the parties in their settlement efforts, the hearing will be held in abeyance, and pursuant to Rule 603 of the Commission's Rules of Practice and Procedure, the Chief Administrative Law Judge is directed to appoint a settlement judge in these proceedings within fifteen (15) days of the date of this order. Such settlement judge shall have all powers and duties enumerated in Rule 603 and shall convene a settlement conference as soon as practicable after the Chief Judge designates the settlement judge. If the parties desire, they may, by mutual agreement, request a specific judge as the settlement judge in the proceeding.¹⁰ The Chief Judge, however, may not be able to designate the requested settlement judge based on workload requirements which determine judges' availability. If the participants decide to request a specific judge, they must make their request to the Chief Judge within five (5) days of the date of this order.

Within thirty (30) days of the appointment of the settlement judge, the settlement judge shall file a report with the Commission and the Chief Judge on the status of the settlement discussions. Based on this report, the Chief Judge shall provide the

⁷ *Agency Operations in the Absence of a Quorum*, 158 FERC ¶ 61,135 (2017).

⁸ AEP is granted waiver of the Commission's 60-day notice requirement. 18 C.F.R. § 35.11 (2016).

⁹ AEP's entire filings are set for hearing. Issues to be explored at hearing are not limited to those noted here.

¹⁰ If the parties decide to request a specific judge, they must make their joint request to the Chief Judge by telephone at 202-502-8500 within five days of this order. The Commission's website contains a list of the Commission's judges and a summary of their background and experience at <http://www.ferc.gov/about/offices/oaljdr/oalj-dj.asp>.

participants with additional time to continue their settlement discussions, if appropriate, or assign this case to a presiding judge for a trial-type evidentiary hearing, if appropriate. If settlement discussions continue, the settlement judge shall file a report at least every sixty (60) days thereafter, informing the Commission and the Chief Judge of the participants' progress toward settlement.

If settlement judge procedures fail and a trial-type evidentiary hearing is to be held, a presiding judge, to be designated by the Chief Judge, shall, within fifteen (15) days of the date of the presiding judge's designation, convene a prehearing conference in these proceedings in a hearing room of the Commission, 888 First Street, NE, Washington, DC 20426. Such a conference shall be held for the purpose of establishing a procedural schedule. The presiding judge is authorized to establish procedural dates, and to rule on all motions (except motions to dismiss) as provided in the Commission's Rules of Practice and Procedure.

The acceptance for filing herein shall not be construed as constituting approval of the referenced filing or of any rate, charge, classification, or any rule, regulation, or practice affecting such rate or service contained in your filing; nor shall such acceptance be deemed as recognition of any claimed contractual right or obligation associated therewith; and such acceptance is without prejudice to any findings or orders which have been or may hereafter be made by the Commission in any proceeding now pending or hereafter instituted by or against AEP.

Consistent with Rule 1902 of the Commission's Rules of Practice and Procedure,¹¹ requests for rehearing by the Commission may be filed within 30 days of the date of issuance of this order.¹²

Sincerely,

Kurt Longo, Director
Division of Electric Power
Regulation – East

¹¹ 18 C.F.R. § 385.1902 (2016).

¹² 18 C.F.R. § 385.713 (2016).

Document Content(s)

ER17-405-000 Delegated Letter.DOC.....1-4

Attachment 10 (PSE&G FERC Formula Rate filing)

Hesser G. McBride, Jr.
Associate General Regulatory Counsel

Law Department
80 Park Plaza, T5G, Newark, NJ 07102-4194
tel: 973.430.5333 fax: 973.430.5983
Hesser.McBride@PSEG.com



October 17, 2016

VIA ELECTRONIC FILING

Hon. Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, DC 20426

Re: Public Service Electric and Gas Company
Docket No. ER09-1257-000
Informational Filing of 2017 Formula Rate Annual Update

Dear Secretary Bose:

Pursuant to the Formula Rate Implementation Protocols (“Protocols”) of Public Service Electric and Gas Company (“PSE&G”) contained in Attachment H-10B of the PJM Interconnection, L.L.C. (“PJM”) Open Access Transmission Tariff (“OATT”), PSE&G submits its Formula Rate Annual Update (“Annual Update”) for 2017. This 2017 Annual Update sets forth PSE&G’s annual transmission revenue requirement calculated in accordance with its Formula Rate for network transmission service under the PJM OATT for the period commencing January 1, 2017 to and including December 31, 2017. The 2017 Annual Update also includes a True-up Adjustment for the 2015 Rate Year (January 1, 2015 to and including December 31, 2015).

In accordance with the Protocols, this submission is provided to the Federal Energy Regulatory Commission for informational purposes only and requires no action by the Commission. As required by the Protocols, PSE&G is also providing a copy of this filing to PJM for posting on the PJM website. Exhibit 1 of this filing includes a copy of PSE&G’s 2017 Annual Update. Consistent with the Commission Staff’s Guidance on Formula Rate Updates, PSE&G is submitting the formula rate template and additional exhibits in Microsoft Excel format.

In addition to PSE&G’s 2017 Annual Update formula rate template, PSE&G also submits Workpaper 1, which contains additional supporting information pursuant to Commission Staff’s Guidance on Formula Rate Updates for the computation of accumulated deferred income taxes (“ADIT”).

In 2015, the Internal Revenue Service (“IRS”) issued several private letter rulings (“PLRs”) regarding the computation of ADIT that is applied to reduce rate base. Based on the guidance in those PLRs, PSE&G determined that it must use the IRS proration

rules, set forth in Internal Revenue Code (“IRC”) regulation section 1.167(l)-1(h)(6), to calculate projected ADIT in the formula rate projection submitted herewith. Specifically, these rules require that the actual amount of the ADIT balance at the beginning of the year (i.e., January 1, 2017), and a pro rata portion of the amount of any projected increase to be credited or decrease to be charged during the future period shall be determined by multiplying any such increase or decrease by a fraction, the numerator of which is the number of days remaining in the period at the time that increase or decrease is to be accrued, and the denominator of which is the total number of days in the period. For PSE&G, the accrual period is monthly. Thus, in accordance with Example 2 of IRC regulation section 1.167(l)-1(h)(6), the monthly increases/(decreases) to the forecasted changes to PSE&G’s ADIT balance are reflected on the last day of the month. Work Paper 1, provided herewith, details the calculation of PSE&G’s prorated ADIT amount.

Thank you for your attention to this matter and please advise the undersigned of any questions.

Respectfully submitted,

Hesser G. McBride, Jr.

Hesser G. McBride, Jr.

Attachments

Public Service Electric and Gas Company				
ATTACHMENT H-10A				
Formula Rate -- Appendix A	Notes	FERC Form 1 Page # or Instruction		12 Months Ended 12/31/2017
Shaded cells are input cells				
Allocators				
Wages & Salary Allocation Factor				
1	Transmission Wages Expense	(Note O)	Attachment 5	29,783,185
2	Total Wages Expense	(Note O)	Attachment 5	206,099,440
3	Less A&G Wages Expense	(Note O)	Attachment 5	7,544,875
4	Total Wages Less A&G Wages Expense		(Line 2 - Line 3)	198,554,565
5	Wages & Salary Allocator		(Line 1 / Line 4)	15.0000%
Plant Allocation Factors				
6	Electric Plant in Service	(Note B)	Attachment 5	18,706,592,731
7	Common Plant in Service - Electric		(Line 22)	180,461,300
8	Total Plant in Service		(Line 6 + 7)	18,887,054,031
9	Accumulated Depreciation (Total Electric Plant)	(Note B & J)	Attachment 5	3,438,430,659
10	Accumulated Intangible Amortization - Electric	(Note B)	Attachment 5	4,531,392
11	Accumulated Common Plant Depreciation & Amortization - Electric	(Note B & J)	Attachment 5	28,812,089
12	Accumulated Common Amortization - Electric	(Note B)	Attachment 5	44,572,229
13	Total Accumulated Depreciation		(Line 9 + Line 10 + Line 11 + Line 12)	3,516,346,369
14	Net Plant		(Line 8 - Line 13)	15,370,707,662
15	Transmission Gross Plant		(Line 31)	9,671,727,259
16	Gross Plant Allocator		(Line 15 / Line 8)	51.2082%
17	Transmission Net Plant		(Line 43)	8,816,219,582
18	Net Plant Allocator		(Line 17 / Line 14)	57.3573%
Plant Calculations				
Plant In Service				
19	Transmission Plant In Service	(Note B)	Attachment 5	9,599,663,592
20	General	(Note B)	Attachment 5	224,065,400
21	Intangible - Electric	(Note B)	Attachment 5	11,733,759
22	Common Plant - Electric	(Note B)	Attachment 5	180,461,300
23	Total General, Intangible & Common Plant		(Line 20 + Line 21 + Line 22)	416,260,459
24	Less: General Plant Account 397 -- Communications	(Note B)	Attachment 5	26,500,088
25	Less: Common Plant Account 397 -- Communications	(Note B)	Attachment 5	19,892,821
26	General and Intangible Excluding Acct. 397		(Line 23 - Line 24 - Line 25)	369,867,550
27	Wage & Salary Allocator		(Line 5)	15.0000%
28	General and Intangible Plant Allocated to Transmission		(Line 26 * Line 27)	55,480,133
29	Account No. 397 Directly Assigned to Transmission	(Note B)	Attachment 5	16,583,534
30	Total General and Intangible Functionalized to Transmission		(Line 28 + Line 29)	72,063,667
31	Total Plant In Rate Base		(Line 19 + Line 30)	9,671,727,259
Accumulated Depreciation				
32	Transmission Accumulated Depreciation	(Note B & J)	Attachment 5	815,358,651
33	Accumulated General Depreciation	(Note B & J)	Attachment 5	104,939,497
34	Accumulated Common Plant Depreciation - Electric	(Note B & J)	Attachment 5	73,384,318
35	Less: Amount of General Depreciation Associated with Acct. 397	(Note B & J)	Attachment 5	22,539,175
36	Balance of Accumulated General Depreciation		(Line 33 + Line 34 - Line 35)	155,784,640
37	Accumulated Intangible Amortization - Electric	(Note B)	(Line 10)	4,531,392
38	Accumulated General and Intangible Depreciation Ex. Acct. 397		(Line 36 + 37)	160,316,032
39	Wage & Salary Allocator		(Line 5)	15.0000%
40	Subtotal General and Intangible Accum. Depreciation Allocated to Transmission		(Line 38 * Line 39)	24,047,405
41	Accumulated General Depreciation Associated with Acct. 397 Directly Assigned to Transmission	(Note B & J)	Attachment 5	16,101,621
42	Total Accumulated Depreciation		(Lines 32 + 40 + 41)	855,507,677
43	Total Net Property, Plant & Equipment		(Line 31 - Line 42)	8,816,219,582

Public Service Electric and Gas Company			
ATTACHMENT H-10A			
Formula Rate -- Appendix A	Notes	FERC Form 1 Page # or Instruction	12 Months Ended 12/31/2017
Shaded cells are input cells			
Adjustment To Rate Base			
44	Accumulated Deferred Income Taxes ADIT net of FASB 106 and 109	(Note Q) Attachment 1	-2,257,796,613
45	CWIP for Incentive Transmission Projects CWIP Balances for Current Rate Year	(Note B & H) Attachment 6	362,136,575
45a	Abandoned Transmission Projects Unamortized Abandoned Transmission Projects	(Note R) Attachment 5	0
46	Plant Held for Future Use	(Note C & Q) Attachment 5	22,009,446
47	Prepayments	(Note A & Q) Attachment 5	0
48	Materials and Supplies Undistributed Stores Expense	(Note Q) Attachment 5	0
49	Wage & Salary Allocator	(Line 5)	15.0000%
50	Total Undistributed Stores Expense Allocated to Transmission	(Line 48 * Line 49)	0
51	Transmission Materials & Supplies	(Note N & Q) Attachment 5	16,840,790
52	Total Materials & Supplies Allocated to Transmission	(Line 50 + Line 51)	16,840,790
53	Cash Working Capital Operation & Maintenance Expense	(Line 80)	130,300,299
54	1/8th Rule	1/8	12.5%
55	Total Cash Working Capital Allocated to Transmission	(Line 53 * Line 54)	16,287,537
56	Network Credits Outstanding Network Credits	(Note N & Q) Attachment 5	0
57	Total Adjustment to Rate Base	(Lines 44 + 45 + 45a + 46 + 47 + 52 + 55 - 56)	(1,840,522,264)
58	Rate Base	(Line 43 + Line 57)	6,975,697,317
Operations & Maintenance Expense			
59	Transmission O&M	(Note O) Attachment 5	99,724,192
60	Plus Transmission Lease Payments	(Note O) Attachment 5	0
61	Transmission O&M	(Lines 59 + 60)	99,724,192
62	Allocated Administrative & General Expenses Total A&G	(Note O) Attachment 5	202,793,230
63	Plus: Actual PBOP expense	(Note J) Attachment 5	33,048,517
64	Less: Actual PBOP expense	(Note O) Attachment 5	33,328,250
65	Less Property Insurance Account 924	(Note O) Attachment 5	4,022,046
66	Less Regulatory Commission Exp Account 928	(Note E & O) Attachment 5	11,216,380
67	Less General Advertising Exp Account 930.1	(Note O) Attachment 5	3,116,470
68	Less EPRI Dues	(Note D & O) Attachment 5	0
69	Administrative & General Expenses	Sum (Lines 62 to 63) - Sum (Lines 64 to 68)	184,158,602
70	Wage & Salary Allocator	(Line 5)	15.0000%
71	Administrative & General Expenses Allocated to Transmission	(Line 69 * Line 70)	27,623,790
72	Directly Assigned A&G Regulatory Commission Exp Account 928	(Note G & O) Attachment 5	645,380
73	General Advertising Exp Account 930.1	(Note K & O) Attachment 5	0
74	Subtotal - Accounts 928 and 930.1 - Transmission Related	(Line 72 + Line 73)	645,380
75	Property Insurance Account 924	(Line 65)	4,022,046
76	General Advertising Exp Account 930.1	(Note F & O) Attachment 5	0
77	Total Accounts 928 and 930.1 - General	(Line 75 + Line 76)	4,022,046
78	Net Plant Allocator	(Line 18)	57.3573%
79	A&G Directly Assigned to Transmission	(Line 77 * Line 78)	2,306,936
80	Total Transmission O&M	(Lines 61 + 71 + 74 + 79)	130,300,299

Public Service Electric and Gas Company			FERC Form 1 Page # or	12 Months Ended
ATTACHMENT H-10A			Instruction	12/31/2017
Formula Rate -- Appendix A		Notes		
Shaded cells are input cells				
Depreciation & Amortization Expense				
Depreciation Expense				
81	Transmission Depreciation Expense Including Amortization of Limited Term Plant	(Note J & O)	Attachment 5	228,796,129
81a	Amortization of Abandoned Plant Projects	(Note R)	Attachment 5	0
82	General Depreciation Expense Including Amortization of Limited Term Plant	(Note J & O)	Attachment 5	21,659,659
83	Less: Amount of General Depreciation Expense Associated with Acct. 397	(Note J & O)	Attachment 5	4,729,585
84	Balance of General Depreciation Expense		(Line 82 - Line 83)	16,930,074
85	Intangible Amortization	(Note A & O)	Attachment 5	10,051,339
86	Total		(Line 84 + Line 85)	26,981,413
87	Wage & Salary Allocator		(Line 5)	15.00%
88	General Depreciation & Intangible Amortization Allocated to Transmission		(Line 86 * Line 87)	4,047,212
89	General Depreciation Expense for Acct. 397 Directly Assigned to Transmission	(Note J & O)	Attachment 5	1,658,353
90	General Depreciation and Intangible Amortization Functionalized to Transmission		(Line 88 + Line 89)	5,705,565
91	Total Transmission Depreciation & Amortization		(Lines 81 + 81a + 90)	234,501,695
Taxes Other than Income Taxes				
92	Taxes Other than Income Taxes	(Note O)	Attachment 2	10,156,257
93	Total Taxes Other than Income Taxes		(Line 92)	10,156,257
Return \ Capitalization Calculations				
94	Long Term Interest		p117.62.c through 67.c	273,028,458
95	Preferred Dividends	enter positive	p118.29.d	0
Common Stock				
96	Proprietary Capital	(Note P)	Attachment 5	7,232,269,434
97	Less Accumulated Other Comprehensive Income Account 219	(Note P)	Attachment 5	1,479,925
98	Less Preferred Stock		(Line 106)	0
99	Less Account 216.1	(Note P)	Attachment 5	3,398,888
100	Common Stock		(Line 96 - 97 - 98 - 99)	7,227,390,621
Capitalization				
101	Long Term Debt	(Note P)	Attachment 5	6,587,117,120
102	Less Loss on Reacquired Debt	(Note P)	Attachment 5	70,401,824
103	Plus Gain on Reacquired Debt	(Note P)	Attachment 5	0
104	Less ADIT associated with Gain or Loss	(Note P)	Attachment 5	16,982,115
105	Total Long Term Debt		(Line 101 - 102 + 103 - 104)	6,499,733,181
106	Preferred Stock	(Note P)	Attachment 5	0
107	Common Stock		(Line 100)	7,227,390,621
108	Total Capitalization		(Sum Lines 105 to 107)	13,727,123,802
109	Debt %	Total Long Term Debt	(Line 105 / Line 108)	47.35%
110	Preferred %	Preferred Stock	(Line 106 / Line 108)	0.00%
111	Common %	Common Stock	(Line 107 / Line 108)	52.65%
112	Debt Cost	Total Long Term Debt	(Line 94 / Line 105)	0.0420
113	Preferred Cost	Preferred Stock	(Line 95 / Line 106)	0.0000
114	Common Cost	Common Stock	(Note J) Fixed	0.1168
115	Weighted Cost of Debt	Total Long Term Debt (WCLTD)	(Line 109 * Line 112)	0.0199
116	Weighted Cost of Preferred	Preferred Stock	(Line 110 * Line 113)	0.0000
117	Weighted Cost of Common	Common Stock	(Line 111 * Line 114)	0.0615
118	Rate of Return on Rate Base (ROR)		(Sum Lines 115 to 117)	0.0814
119	Investment Return = Rate Base * Rate of Return		(Line 58 * Line 118)	567,720,029

Public Service Electric and Gas Company				
ATTACHMENT H-10A				
Formula Rate -- Appendix A		Notes	FERC Form 1 Page # or Instruction	12 Months Ended 12/31/2017
Shaded cells are input cells				
Composite Income Taxes				
Income Tax Rates				
120	FIT=Federal Income Tax Rate		(Note I)	35.00%
121	SIT=State Income Tax Rate or Composite			9.00%
122	p	(percent of federal income tax deductible for state purposes)	Per State Tax Code	0.00%
123	T	$T = 1 - \{[(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p)\}$		40.85%
124	T / (1-T)			69.06%
ITC Adjustment				
125	Amortized Investment Tax Credit	enter negative	(Note O)	-868,656
126	1/(1-T)		Attachment 5 1 / (1 - Line 123)	169.06%
127	Net Plant Allocation Factor		(Line 18)	57.36%
128	ITC Adjustment Allocated to Transmission		(Line 125 * Line 126 * Line 127)	-842,329
129	Income Tax Component =	$(T/1-T) * \text{Investment Return} * (1-(WCLTD/ROR)) =$	[Line 124 * Line 119 * (1- (Line 115 / Line 118))]	296,257,777
130	Total Income Taxes		(Line 128 + Line 129)	295,415,448
Revenue Requirement				
Summary				
131	Net Property, Plant & Equipment		(Line 43)	8,816,219,582
132	Total Adjustment to Rate Base		(Line 57)	-1,840,522,264
133	Rate Base		(Line 58)	6,975,697,317
134	Total Transmission O&M		(Line 80)	130,300,299
135	Total Transmission Depreciation & Amortization		(Line 91)	234,501,695
136	Taxes Other than Income		(Line 93)	10,156,257
137	Investment Return		(Line 119)	567,720,029
138	Income Taxes		(Line 130)	295,415,448
139	Gross Revenue Requirement		(Sum Lines 134 to 138)	1,238,093,728
Adjustment to Remove Revenue Requirements Associated with Excluded Transmission Facilities				
140	Transmission Plant In Service		(Line 19)	9,599,663,592
141	Excluded Transmission Facilities	(Note B & M)	Attachment 5	0
142	Included Transmission Facilities		(Line 140 - Line 141)	9,599,663,592
143	Inclusion Ratio		(Line 142 / Line 140)	100.00%
144	Gross Revenue Requirement		(Line 139)	1,238,093,728
145	Adjusted Gross Revenue Requirement		(Line 143 * Line 144)	1,238,093,728
Revenue Credits & Interest on Network Credits				
146	Revenue Credits	(Note O)	Attachment 3	23,864,514
147	Interest on Network Credits	(Note N & O)	Attachment 5	0
148	Net Revenue Requirement		(Line 145 - Line 146 + Line 147)	1,214,229,214
Net Plant Carrying Charge				
149	Gross Revenue Requirement		(Line 144)	1,238,093,728
150	Net Transmission Plant, CWIP and Abandoned Plant		(Line 19 - Line 32 + Line 45 + Line 45a)	9,146,441,516
151	Net Plant Carrying Charge		(Line 149 / Line 150)	13.5363%
152	Net Plant Carrying Charge without Depreciation		(Line 149 - Line 81) / Line 150	11.0349%
153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes		(Line 149 - Line 81 - Line 119 - Line 130) / Line 151	1.5980%
Net Plant Carrying Charge Calculation per 100 Basis Point increase in ROE				
154	Gross Revenue Requirement Less Return and Taxes		(Line 144 - Line 137 - Line 138)	374,958,250
155	Increased Return and Taxes		Attachment 4	925,227,364
156	Net Revenue Requirement per 100 Basis Point increase in ROE		(Line 154 + Line 155)	1,300,185,614
157	Net Transmission Plant, CWIP and Abandoned Plant		(Line 19 - Line 32 + Line 45 + Line 45a)	9,146,441,516
158	Net Plant Carrying Charge per 100 Basis Point increase in ROE		(Line 156 / Line 157)	14.2152%
159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation		(Line 156 - Line 81) / Line 157	11.7137%
160	Net Revenue Requirement		(Line 148)	1,214,229,214
161	True-up amount		Attachment 6	-36,791,241
162	Plus any increased ROE calculated on Attachment 7 other than PJM Sch. 12 projects not paid by other PJM transmission zones		Attachment 7	7,726,945
163	Facility Credits under Section 30.9 of the PJM OATT		Attachment 5	0
164	Net Zonal Revenue Requirement		(Line 160 + 161 + 162 + 163)	1,185,164,918
Network Zonal Service Rate				
165	1 CP Peak	(Note L)	Attachment 5	9,800.3
166	Rate (\$/MW-Year)		(Line 164 / 165)	120,931.26
167	Network Service Rate (\$/MW/Year)		(Line 166)	120,931.26

Public Service Electric and Gas Company		
ATTACHMENT H-10A		
Formula Rate -- Appendix A	Notes	FERC Form 1 Page # or Instruction

12 Months Ended 12/31/2017

Shaded cells are input cells

Notes

A Electric portion only

B Calculated using 13-month average balances

C Includes Transmission portion only. At each annual informational filing, Company will identify for each parcel of land an intended use within a 15 year period

D Includes all EPRI Annual Membership Dues

E Includes all Regulatory Commission Expenses

F Includes Safety related advertising included in Account 930.1

G Includes Regulatory Commission Expenses directly related to transmission service, RTO filings, or transmission siting itemized in Form 1 at 351.h

H CWIP can only be included if authorized by the Commission

I The currently effective income tax rate where FIT is the Federal income tax rate; SIT is the State income tax rate, and p = the percentage of federal income tax deductible for state income taxes

J ROE will be supported in the original filing and no change in ROE will be made absent a filing at FERC

PBOP expense shall be based upon the Company's Actual Annual PBOP Expense until changed by a filing at FERC

The actual Annual PBOP Expense to be included in the Formula Rate Annual Update that is required to be filed on or before October 15 of each year shall be based upon the Actual Annual PBOP Expense as charged to FERC Account 926 on behalf of electric employees for PBOP and as included by the Company in its most recent True-up Adjustment filing.

PSEG will provide, in connection with each annual True-Up Adjustment filing a confidential copy of relevant pages from annual actuarial valuation report supporting the derivation of the Actual Annual PBOP Expense as charged to FERC Account 926 on behalf of electric employees

Depreciation rates shown in Attachment 8 are fixed until changed as the result of a filing at FERC

If book depreciation rates are different than the Attachment 8 rates, PSE&G will provide workpapers at the annual update to reconcile formula depreciation expense and depreciation accruals to FERC Form 1 amounts

K Education and outreach expenses relating to transmission, for example siting or billing

L As provided for in Section 34.1 of the PJM OATT; the PJM established billing determinants will not be revised or updated in the annual rate reconciliations

M Amount of transmission plant excluded from rates per Attachment 5

N Outstanding Network Credits is the balance of Network Facilities Upgrades Credits due Transmission Customers who have made lump-sum payments towards the construction of Network Transmission Facilities consistent with Paragraph 657 of Order 2003-A

Interest on the Network Credits as booked each year is added to the revenue requirement to make the Transmission Owner whole on Line "&A248&".

O Expenses reflect full year plan

P The projected capital structure shall reflect the capital structure from the FERC Form 1 data. For all other formula rate calculations, the projected capital structure and actual capital structure shall reflect the capital structure from the most recent FERC Form 1 data available.

Calculated using the average of the prior year and current year balances

Q Calculated using beginning and year end projected balances

END R Unamortized Abandoned Plant and Amortization of Abandoned Plant may only be included pursuant to a Commission Order authorizing such inclusion

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet - December 31, 2017

	<i>Only Transmission Related</i>	<i>Plant Related</i>	<i>Labor Related</i>	<i>Total ADIT</i>	
ADIT-282	0	(4,075,528,187)	0		From Acct. 282 total, below
ADIT-283	0	(16,982,115)	0		From Acct. 283 total, below
ADIT-190	0	427,991	2,299,557		From Acct. 190 total, below
Subtotal	0	(4,092,082,310)	2,299,557		
Wages & Salary Allocator		57.3573%			
Net Plant Allocator					
End of Year ADIT	0	(2,347,107,042)	344,934	(2,346,762,109)	
End of Previous Year ADIT (from Sheet 1A-ADIT(3))	0	(2,169,176,051)	344,934	(2,168,831,116)	
Average Beginning and End of Year ADIT	0	(2,258,141,547)	344,934	(2,257,796,613)	Appendix A, Line 44

Note: ADIT associated with Gain or Loss on Reacquired Debt is included in Column A here and included in Cost of Debt on Appendix A, Line 108
 (16,982,115) < From Acct 283, below

In filling out this attachment, a full and complete description of each item and justification for the allocation to Columns B-F and each separate ADIT item will be listed, dissimilar items with amounts exceeding \$100,000 will be listed separately.

A	B Total	C Gas, Prod Or Other Related	D Only Transmission Related	E Plant Related	F Labor Related	G Justification
ADIT-190						
ADIT - Real Estate Taxes	427,991			427,991		Book estimate accrued and expensed, tax deduction when paid, related to plant
Vacation Pay	2,294,581				2,294,581	Vacation pay earned and expensed for books, tax deduction when paid - employees in all functions
OPEB	121,713,902				121,713,902	FASB 106 - Post Retirement Obligation, labor related
Deferred Dividend Equivalents	2,964,680				2,964,680	Book accrual of dividends on employee stock options affecting all functions
Deferred Compensation	387,627				387,627	Book estimate accrued and expensed, tax deduction when paid - employees in all functions
ADIT - Unallowable PIP Accrual	(218,285)				(218,285)	Book estimate accrued and expensed, tax deduction when paid - employees in all functions
Bankruptcies S Acfc	147,040	147,040				Book estimate accrued and expensed, tax deduction when paid - Generation Related
Federal Taxes Deferred	14,753,517			14,753,517		FASB 109 - deferred tax asset primarily associated with items previously flowed through due to regulation
Miscellaneous	(331,516)	2,797,529			(3,129,045)	
Subtotal - p234	142,139,537	2,944,569		15,181,508	124,013,459	
Less FASB 109 Above if not separately removed	14,753,517			14,753,517		
Less FASB 106 Above if not separately removed	121,713,902				121,713,902	
Total	5,672,118	2,944,569		427,991	2,299,557	

Instructions for Account 190:

- ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
- ADIT items related only to Transmission are directly assigned to Column D
- ADIT items related to Plant and not in Columns C & D are included in Column E
- ADIT items related to labor and not in Columns C & D are included in Column F
- Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded

Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet - December 31,2017

Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet

A	B Total	C Gas, Prod Or Other Related	D Only Transmission Related	E Plant Related	F Labor Related	G Justification
ADIT- 282						
Depreciation - Liberalized Depreciation (Federal)	(3,675,898,492)	(9,144,703)		(3,666,753,789)		Basis difference resulting from accelerated tax depreciation versus depreciation used for ratemaking purposes - related to all functions
Depreciation - Liberalized Depreciation (State)	(320,565,175)	88,209,223		(408,774,398)		Basis difference resulting from accelerated tax depreciation versus depreciation used for ratemaking purposes - related to all functions
Accounting for Income Taxes	(211,560,168)	52,447,501		(264,007,669)		FASB 109 - deferred tax liability primarily associated with plant related items previously flowed through due to regulation
Subtotal - p275	(4,208,023,835)	131,512,021		(4,339,535,856)		
Less FASB 109 Above if not separately removed	(264,007,669)			(264,007,669)		
Less FASB 106 Above if not separately removed						
Total	(3,944,016,166)	131,512,021		(4,075,528,187)		

Instructions for Account 282:

- ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
- ADIT items related only to Transmission are directly assigned to Column D
- ADIT items related to Plant and not in Columns C & D are included in Column E
- ADIT items related to labor and not in Columns C & D are included in Column F
- Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet - December 31, 2017

Page 3 of 3

ADIT-283	A	B	C	D	E	F	G
	Total	Gas, Prod or Other Related	Only Transmission Related	Plant	Labor		
Securitization Regulatory Asset	26,437,829	26,437,829					Generation Related (Securitization of Stranded Costs)
Environmental Cleanup Costs	88,629,131	88,629,131					Book estimate accrued and expensed, tax deduction when paid - Manufactured Gas Plants
New Jersey Corporation Business Tax	9,651,432	9,651,432					New Jersey Corporate Income Tax - Plant Related- Contra Account of 190 NJCBT
Accelerated Activity Plan	(102,386,095)	(102,386,095)					Demand Side management and Associated Programs - Retail Related
Loss on Recquired Debt	(16,982,115)				(16,982,115)		Tax deduction when reacquired, booked amortizes to expense
Additional Pension Deduction	(134,787,630)	(134,787,630)					Associated with Pension Liability not in rates
Sales Tax Reserve	7,193,851	7,193,851					Sales tax audit reserve
Miscellaneous	(216,397,587)	(216,397,587)					Miscellaneous Tax Adjustments
Deferred Gain	49,546,499	49,546,499					Deferred gain resulted from 2000 deprecuation step up basis
Accounting for Income Taxes (FAS109) - Federal	(219,093,956)				(219,093,956)		FASB 109 - deferred tax liability primarily non-plant related items previously flowed through due to regulation
Subtotal - p277	(508,188,641)	(272,112,571)			(236,076,070)		
Less FASB 109 Above if not separately removed	(219,093,956)				(219,093,956)		
Less FASB 106 Above if not separately removed							
Total	(289,094,685)	(272,112,571)			(16,982,115)		

Instructions for Account 283:

1. ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
2. ADIT items related only to Transmission are directly assigned to Column D
3. ADIT items related to Plant and not in Columns C & D are included in Column E
4. ADIT items related to labor and not in Columns C & D are included in Column F
5. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet - December 31, 2016

	<i>Only Transmission Related</i>	<i>Plant Related</i>	<i>Labor Related</i>	<i>Total ADIT</i>	
ADIT- 282	0	(3,765,312.995)	0		From Acct. 282 total, below
ADIT-283	0	(16,982,115)	0		From Acct. 283 total, below
ADIT-190	0	427,991	2,299,557		From Acct. 190 total, below
Subtotal	0	(3,781,867,119)	2,299,557		
Wages & Salary Allocator			15,0000%		
Net Plant Allocator		57.3573%			
End of Year ADIT	0	(2,169,176.051)	344,934	(2,168,831,118)	

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Note: ADIT associated with Gain or Loss on Recquired Debt is included in Column A here and included in Cost of Debt on Appendix A, Line 108
(16,982,115) < From Acct 283, below

In filling out this attachment, a full and complete description of each item and justification for the allocation to Columns B-F and each separate ADIT item will be listed, dissimilar items with amounts exceeding \$100,000 will be listed separately.

ADIT-190	A	B Total	C Gas, Prod Or Other Related	D Only Transmission Related	E Plant Related	F Labor Related	G Justification
ADIT - Real Estate Taxes		427,991			427,991		Book estimate accrued and expensed, tax deduction when paid - related to plant
Vacation Pay		2,294,581				2,294,581	Vacation pay earned and expensed for books, tax deduction when paid - employees in all functions
OPER		137,864,407				137,864,407	FASB 106 - Post Retirement Obligation, labor related
Deferred Dividend Equivalents		2,964,680				2,964,680	Book accrual of dividends on employee stock options affecting all functions
Deferred Compensation		387,627				387,627	Book estimate accrued and expensed, tax deduction when paid - employees in all functions
ADIT - Unallowable PIP Accrual		(218,285)				(218,285)	Book estimate accrued and expensed, tax deduction when paid - employees in all functions
Bankruptcies S. Acfr		147,040	147,040				Book estimate accrued and expensed, tax deduction when paid - Generation Related
Federal Taxes Deferred		14,753,517			14,753,517		FASB 109 - deferred tax asset primarily associated with items previously flowed through due to regulation
Miscellaneous		(331,516)	2,797,529			(3,129,045)	
Subtotal - p234		158,290,041	2,944,569		15,181,508	140,163,964	
Less FASB 109 Above if not separately removed		14,753,517			14,753,517		
Less FASB 106 Above if not separately removed		137,864,407				137,864,407	
Total		5,672,118	2,944,569		427,991	2,299,557	

Instructions for Account 190:

- ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
- ADIT items related only to Transmission are directly assigned to Column D
- ADIT items related to Plant and not in Columns C & D are included in Column E
- ADIT items related to labor and not in Columns C & D are included in Column F
- Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet - December 31, 2016

Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet

ADIT- 282	A	B Total	C Gas, Prod Or Other Related	D Only Transmission Related	E Plant Related	F Labor Related	G Justification
Depreciation - Liberalized Depreciation (Federal)	(3,454,618.678)		(5,916.899)		(3,448,701,778.55)		Basis difference resulting from accelerated tax depreciation versus depreciation used for ratemaking purposes - related to all functions
Depreciation - Liberalized Depreciation (State)	(219,112,028)		97,499,189		(316,611,217)		Basis difference resulting from accelerated tax depreciation versus depreciation used for ratemaking purposes - related to all functions
Accounting for Income Taxes	(359,864,585)		(5,916.899)		(353,947,685)		FASB 109 - deferred tax liability primarily associated with plant related items previously flowed through due to regulation
Subtotal - p275	(4,033,595,291)		85,665,390		(4,119,260,681)		
Less FASB 109 Above if not separately removed	(353,947,685)				(353,947,685)		
Less FASB 106 Above if not separately removed							
Total	(3,679,647,606)		85,665,390		(3,765,312,995)		

Instructions for Account 282:

1. ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
2. ADIT items related only to Transmission are directly assigned to Column D
3. ADIT items related to Plant and not in Columns C & D are included in Column E
4. ADIT items related to labor and not in Columns C & D are included in Column F
5. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet - December 31, 2016

ADIT-283	A	B Total	C Related	D Only Transmission Related	E Plant	F Labor	G
Securization Regulatory Asset		26,437,829	26,437,829				Generation Related (Securization of Stranded Costs)
Environmental Cleanup Costs		88,629,131	88,629,131				Book estimate accrued and expensed, tax deduction when paid - Manufactured Gas Plants
New Jersey Corporation Business Tax		9,651,432	9,651,432				New Jersey Corporate Income Tax - Plant Related- Contra Account of 190 NJCBT
Accelerated Activity Plan		(102,386,095)	(102,386,095)				Demand Side management and Associated Programs - Retail Related
Loss on Recquired Debt		(16,982,115)			(16,982,115)		Tax deduction when reacquired, booked amortizes to expense
Additional Pension Deduction		(134,273,967)	(134,273,967)				Associated with Pension Liability not in rates
Sales Tax Reserve		7,193,851	7,193,851				Sales tax audit reserve
Miscellaneous		(216,397,587)	(216,397,587)				Miscellaneous Tax Adjustments
Deferred Gain		49,546,499	49,546,499				Deferred gain resulted from 2000 deroulation step up basis
Accounting for Income Taxes (FAS109) - Federal		(219,093,956)			(219,093,956)		FASB 109 - deferred tax liability primarily non-plant related items previously flowed through due to regulation
Subtotal - p277		(507,674,977)	(271,598,907)		(236,076,070)		
Less FASB 109 Above if not separately removed		(219,093,956)			(219,093,956)		
Less FASB 106 Above if not separately removed							
Total		(288,581,022)	(271,598,907)		(16,982,115)		

Instructions for Account 283:

1. ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
2. ADIT items related only to Transmission are directly assigned to Column D
3. ADIT items related to Plant and not in Columns C & D are included in Column E
4. ADIT items related to labor and not in Columns C & D are included in Column F
5. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 2 - Taxes Other Than Income Worksheet - December 31, 2017

Other Taxes	Page 263 Col (i)	Allocator	Allocated Amount
Plant Related			
1 Real Estate	20,804,000		Attachment #5
2 Total Plant Related	20,804,000	N/A	7,847,000
Labor Related			
Wages & Salary Allocator			
3 FICA	14,296,575		
4 Federal Unemployment Tax	163,741		
5 New Jersey Unemployment Tax	603,135		
6 New Jersey Workforce Development	331,596		
7			
8 Total Labor Related	15,395,047	15.0000%	2,309,257
Other Included			
Net Plant Allocator			
9			
10			
11			
12			
13 Total Other Included	0	57.3573%	0
14 Total Included (Lines 8 + 14 + 19)	<u>36,199,047</u>		<u>10,156,257</u>
Currently Excluded			
15 Corporate Business Tax	0		
16 TEFA	0		
17 Use & Sales Tax	0		
18 Local Franchise Tax	0		
19 PA Corporate Income Tax	0		
20 Municipal Utility	0		
21 Public Utility Fund	0		
22 Subtotal, Excluded	<u>0</u>		
23 Total, Included and Excluded (Line 20 + Line 28)	36,199,047		
24 Total Other Taxes from p114.14.g - Actual	36,199,047		
25 Difference (Line 29 - Line 30)	-		

Criteria for Allocation:

- A Other taxes that are incurred through ownership of plant including transmission plant will be allocated based on the Net Plant Allocator. If the taxes are 100% recovered at retail they shall not be included. Real Estate taxes are directly assigned to Transmission.
- B Other taxes that are incurred through ownership of only general or intangible plant will be allocated based on the Wages and Salary Allocator. If the taxes are 100% recovered at retail they shall not be included.
- C Other taxes that are assessed based on labor will be allocated based on the Wages and Salary Allocator.
- D Other taxes except as provided for in A, B and C above, that are incurred and (1) are not fully recovered at retail or (2) are directly or indirectly related to transmission service will be allocated based on the Net Plant Allocator; provided, however, that overheads shall be treated as in footnote B above.
- E Excludes prior period adjustments in the first year of the formula's operation and reconciliation for the first year.

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 3 - Revenue Credit Workpaper - December 31, 2017

Accounts 450 & 451		
1	Late Payment Penalties Allocated to Transmission	0
Account 454 - Rent from Electric Property		
2	Rent from Electric Property - Transmission Related (Note 2)	600,000
Account 456 - Other Electric Revenues		
3	Transmission for Others	0
4	Schedule 1A	4,800,000
5	Net revenues associated with Network Integration Transmission Service (NITS) for which the load is not included in the divisor (difference between NITS credits from PJM and PJM NITS charges paid by Transmission Owner)	8,200,000
6	Point to Point Service revenues for which the load is not included in the divisor received by Transmission Owner	45,000
7	Professional Services (Note 2)	9,268,580
8	Revenues from Directly Assigned Transmission Facility Charges (Note 1)	4,751,227
9	Rent or Attachment Fees associated with Transmission Facilities (Note 2)	27,664,806
10	Gross Revenue Credits	(Sum Lines 1-9) <u>27,664,806</u>
11	Less line 18	- line 18 <u>(3,800,293)</u>
12	Total Revenue Credits	line 10 + line 11 <u>23,864,514</u>
13	Revenues associated with lines 2, 7, and 9 (Note 2)	5,396,227
14	Income Taxes associated with revenues in line 13	2,204,359
15	One half margin (line 13 - line 14)/2	1,595,934
16	All expenses (other than income taxes) associated with revenues in line 13 that are included in FERC accounts recovered through the formula times the allocator used to functionalize the amounts in the FERC account to the transmission service at issue.	-
17	Line 15 plus line 16	1,595,934
18	Line 13 less line 17	3,800,293

Note 1 If the costs associated with the Directly Assigned Transmission Facility Charges are included in the Rates, the associated revenues are included in the Rates. If the costs associated with the Directly Assigned Transmission Facility Charges are not included in the Rates, the associated revenues are not included in the Rates.

Note 2 Ratemaking treatment for the following specified secondary uses of transmission assets: (1) right-of-way leases and leases for space on transmission facilities for telecommunications; (2) transmission tower licenses for wireless antennas; (3) right-of-way property leases for farming, grazing or nurseries; (4) licenses of intellectual property (including a portable oil degasification process and scheduling software); and (5) transmission maintenance and consulting services (including energized circuit maintenance, high-voltage substation maintenance, safety training, transformer oil testing, and circuit breaker testing) to other utilities and large customers (collectively, products). PSE&G will retain 50% of net revenues consistent with *Pacific Gas and Electric Company*, 90 FERC ¶ 61,314. Note: in order to use lines 13-18, the utility must track in separate subaccounts the revenues and costs associated with each secondary use (except for the cost of the associated income taxes).

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 4 - Calculation of 100 Basis Point Increase in ROE

A	Return and Taxes with 100 Basis Point increase in ROE 100 Basis Point increase in ROE and Income Taxes		Line 27 + Line 42 from below	925,227,364
B	100 Basis Point increase in ROE			1.00%
Return Calculation				
			Appendix A Line or Source Reference	
1	Rate Base		(Line 43 + Line 57)	6,975,697,317
2	Long Term Interest		p117.62.c through 67.c	273,028,458
3	Preferred Dividends	enter positive	p118.29.d	0
	Common Stock			
4	Proprietary Capital		Attachment 5	7,232,269,434
5	Less Accumulated Other Comprehensive Income Account 219		p112.15.c	1,479,925
6	Less Preferred Stock		(Line 106)	0
7	Less Account 216.1		Attachment 5	3,398,888
8	Common Stock		(Line 96 - 97 - 98 - 99)	7,227,390,621
	Capitalization			
9	Long Term Debt		Attachment 5	6,587,117,120
10	Less Loss on Reacquired Debt		Attachment 5	70,401,824
11	Plus Gain on Reacquired Debt		Attachment 5	0
12	Less ADIT associated with Gain or Loss		Attachment 5	16,982,115
13	Total Long Term Debt		(Line 101 - 102 + 103 - 104)	6,499,733,181
14	Preferred Stock		Attachment 5	0
15	Common Stock		(Line 100)	7,227,390,621
16	Total Capitalization		(Sum Lines 105 to 107)	13,727,123,802
17	Debt %	Total Long Term Debt	(Line 105 / Line 108)	47.3%
18	Preferred %	Preferred Stock	(Line 106 / Line 108)	0.0%
19	Common %	Common Stock	(Line 107 / Line 108)	52.7%
20	Debt Cost	Total Long Term Debt	(Line 94 / Line 105)	0.0420
21	Preferred Cost	Preferred Stock	(Line 95 / Line 106)	0.0000
22	Common Cost	Common Stock	(Line 114 + 100 basis points)	0.1268
23	Weighted Cost of Debt	Total Long Term Debt (WCLTD)	(Line 109 * Line 112)	0.0199
24	Weighted Cost of Preferred	Preferred Stock	(Line 110 * Line 113)	0.0000
25	Weighted Cost of Common	Common Stock	(Line 111 * Line 114)	0.0668
26	Rate of Return on Rate Base (ROR)		(Sum Lines 115 to 117)	0.0867
27	Investment Return = Rate Base * Rate of Return		(Line 58 * Line 118)	604,447,380
Composite Income Taxes				
	Income Tax Rates			
28	FIT=Federal Income Tax Rate			35.00%
29	SIT=State Income Tax Rate or Composite			9.00%
30	p = percent of federal income tax deductible for state purposes		Per State Tax Code	0.00%
31	T	$T=1 - \{[(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p)\} =$		40.85%
35	CIT = T / (1-T)			69.06%
36	1 / (1-T)			169.06%
	ITC Adjustment			
37	Amortized Investment Tax Credit	enter negative	Attachment 5	-868,656
38	1/(1-T)		1 / (1 - Line 123)	169%
39	Net Plant Allocation Factor		(Line 18)	57.3573%
40	ITC Adjustment Allocated to Transmission		(Line 125 * Line 126 * Line 127)	-842,329
41	Income Tax Component =	$CIT=(T/(1-T)) * Investment Return * (1-(WCLTD/R)) =$		321,622,313
42	Total Income Taxes			320,779,984

Electric / Non-electric Cost Support				Previous Year	Current Year - 2017											Average	Non-electric Portion	
Line #s	Descriptions	Notes	Page #'s & Instructions	Form 1Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Form 1 Dec		
Plant Allocation Factors																		
6	Electric Plant in Service (Excludes Asset Retirement Costs - ARC)	(Note B)	p207.104g	17,914,138,579	17,918,065,090	17,950,818,414	18,074,806,299	18,113,192,849	18,549,837,416	19,020,636,331	19,046,736,994	19,077,148,860	19,130,025,430	19,246,946,120	19,364,495,117	19,778,858,010	18,706,592,731	
7	Common Plant in Service - Electric	(Note B)	p356	168,948,526	169,491,918	169,598,732	171,248,083	173,646,184	174,844,724	177,283,590	178,855,176	179,405,096	179,829,179	195,027,122	198,973,897	208,844,671	180,461,300	
9	Accumulated Depreciation (Total Electric Plant)	(Note B & J)	p219.29c	3,329,983,732	3,325,097,502	3,347,773,795	3,370,716,318	3,393,692,290	3,414,826,514	3,434,708,695	3,457,873,607	3,480,822,303	3,501,977,932	3,523,996,466	3,547,839,363	3,570,268,050	3,438,430,659	
10	Accumulated Intangible Amortization	(Note B)	p200.21c	3,367,740	3,361,958	3,754,976	3,948,594	4,142,211	4,335,929	4,529,447	4,723,065	4,916,683	5,110,300	5,303,918	5,497,536	5,716,497	4,531,392	
11	Accumulated Common Plant Depreciation - Electric	(Note B & J)	p356	27,112,407	26,394,369	25,703,927	26,181,423	26,866,624	27,659,379	28,193,265	28,983,518	29,791,522	30,508,045	31,435,041	32,405,295	33,323,337	28,812,089	
12	Accumulated Common Amortization - Electric	(Note B)	p356	40,821,845	41,437,679	42,053,512	42,669,346	43,291,087	43,912,828	44,556,844	45,210,103	45,863,363	46,516,622	47,171,791	47,826,960	48,107,003	44,572,229	
Plant In Service																		
19	Transmission Plant in Service (Excludes Asset Retirement Costs - ARC)	(Note B)	p207.58.g	9,092,953,440	9,100,177,773	9,101,181,106	9,175,876,439	9,187,830,772	9,418,266,105	9,845,882,438	9,850,760,771	9,854,874,104	9,882,815,437	9,946,373,770	10,003,596,103	10,335,044,436	9,599,663,592	
20	General (Excludes Asset Retirement Costs - ARC)	(Note B)	p207.99.g	239,054,942	212,544,301	213,487,773	215,689,440	218,046,121	219,438,210	220,899,002	222,795,333	226,576,752	228,325,907	229,460,168	230,031,551	236,500,704	224,065,400	
21	Intangible - Electric	(Note B)	p205.5.g	11,617,067	11,617,067	11,617,067	11,617,067	11,617,067	11,617,067	11,617,067	11,617,067	11,617,067	11,617,067	11,617,067	11,617,067	11,617,067	11,733,759	
22	Common Plant in Service - Electric	(Note B)	p356	168,948,526	169,491,918	169,598,732	171,248,083	173,646,184	174,844,724	177,283,590	178,855,176	179,405,096	179,829,179	195,027,122	198,973,897	208,844,671	180,461,300	
24	General Plant Account 397 -- Communications	(Note B)	p207.94g	23,660,284	23,925,764	24,191,244	24,523,104	24,987,704	25,535,145	26,198,855	26,862,565	27,526,275	28,189,985	28,894,695	29,633,405	30,372,115	26,500,088	
25	Common Plant Account 397 -- Communications	(Note B)	p356	11,897,337	12,997,337	14,097,337	15,197,337	16,297,337	17,397,337	18,497,337	19,597,337	20,697,337	21,797,337	22,897,337	23,997,337	25,097,337	19,892,821	
29	Account No. 397 Directly Assigned to Transmission	(Note B)	Company Records	16,583,534	16,583,534	16,583,534	16,583,534	16,583,534	16,583,534	16,583,534	16,583,534	16,583,534	16,583,534	16,583,534	16,583,534	16,583,534		
Accumulated Depreciation																		
32	Transmission Accumulated Depreciation	(Note B & J)	p219.25.c	749,953,237	760,789,479	771,625,739	783,096,391	793,448,950	803,949,381	812,754,044	825,133,464	837,924,110	847,827,639	859,232,285	871,109,376	882,787,363	815,358,651	
33	Accumulated General Depreciation	(Note B & J)	p219.28.b	129,291,152	101,659,513	101,467,590	102,136,125	102,645,416	101,612,210	102,069,276	102,988,284	103,423,492	104,256,584	104,455,576	104,072,318	104,135,950	104,939,497	
34	Accumulated Common Plant Depreciation & Amortization - Electric	(Note B & J)	p356	67,934,253	67,832,048	67,757,440	68,850,768	70,157,711	71,571,207	72,750,109	74,193,621	75,654,884	77,024,667	78,606,832	80,232,255	81,430,340	73,584,318	
35	Accumulated General Depreciation Associated with Acct. 397	(Note B & J)	Company Records	20,431,087	20,771,446	21,123,194	21,478,485	21,830,407	22,052,991	22,402,876	22,759,667	23,121,989	23,489,842	23,989,898	24,510,450	25,052,913	22,539,175	
41	Acc. Deprec. Acct. 397 Directly Assigned to Transmission	(Note B & J)	Company Records	15,272,445	15,410,641	15,548,837	15,687,033	15,825,229	15,963,425	16,101,621	16,239,818	16,378,014	16,516,210	16,654,406	16,792,602	16,930,798	16,101,621	

Wages & Salary				End of Year
Line #s	Descriptions	Notes	Page #'s & Instructions	
2	Total Wage Expense	(Note A)	p354.28b	206,099,440
3	Total A&G Wages Expense	(Note A)	p354.27b	7,544,875
1	Transmission Wages		p354.21b	29,783,185

Transmission / Non-transmission Cost Support				Beginning Year Balance	End of Year	Average
Line #s	Descriptions	Notes	Page #'s & Instructions			
Plant Held for Future Use (Including Land)				20,440,107	27,940,107	24,190,107
46	Transmission Only	(Note C & Q)	p214.47.d	18,259,446	25,759,446	22,009,446

Prepayments				Previous Year	Electric Beginning Year Balance	Electric End of Year Balance	Average Balance	Wage & Salary Allocator	To Line 47
Line #s	Descriptions	Notes	Page #'s & Instructions						
47	Prepayments	(Note A & Q)	p111.57c	0	0	0	0	15.000%	-

Materials and Supplies				Beginning Year Balance	End of Year	Average
Line #s	Descriptions	Notes	Page #'s & Instructions			
Materials and Supplies				0	0	0
48	Undistributed Stores Exp	(Note Q)	p227.16.b,c			
51	Transmission Materials & Supplies	(Note N & Q)	p227.8.b,c	16,840,790	16,840,790	16,840,790

Outstanding Network Credits Cost Support				Beginning Year Balance	End of Year	Average
Line #s	Descriptions	Notes	Page #'s & Instructions			
Network Credits						
56	Outstanding Network Credits	(Note N & Q)	From PJM	0	0	0

O&M Expenses				End of Year
Line #s	Descriptions	Notes	Page #'s & Instructions	
59	Transmission O&M	(Note O)	p.321.112.b	99,724,192
60	Transmission Lease Payments		p321.96.b	-

Property Insurance Expenses				End of Year
Line #s	Descriptions	Notes	Page #'s & Instructions	
65	Property Insurance Account 924	(Note O)	p323.185b	4,022,046

Adjustments to A & G Expense

Line #s	Descriptions	Notes	Page #'s & Instructions	End of Year
62	Total A&G Expenses		p323.197b	202,793,230
63	Actual PBOP expense	(Note J)	Company Records	33,048,517
64	Actual PBOP expense	(Note O)	Company Records	33,328,250

Regulatory Expense Related to Transmission Cost Support

Line #s	Descriptions	Notes	Page #'s & Instructions	End of Year	Transmission Related
Allocated General & Common Expenses					
66	Regulatory Commission Exp Account 928	(Note E & O)	p323.189b	11,216,380	0
Directly Assigned A&G					
72	Regulatory Commission Exp Account 928	(Note G & O)	p351.11-13h	645,380	645,380

General & Common Expenses

Line #s	Descriptions	Notes	Page #'s & Instructions	End of Year	EPRI Dues
68	Less EPRI Dues	(Note D & O)	p352-353	0	0

Safety Related Advertising Cost Support

Line #s	Descriptions	Notes	Page #'s & Instructions	End of Year	Safety Related	Non-safety Related
Directly Assigned A&G						
73	General Advertising Exp Account 930.1	(Note K & O)	p323.191b	3,116,470	0	3,116,470

Education and Out Reach Cost Support

Line #s	Descriptions	Notes	Page #'s & Instructions	End of Year	Education & Outreach	Other
Directly Assigned A&G						
76	General Advertising Exp Account 930.1	(Note K & O)	p323.191b	3,116,470	0	3,116,470

Depreciation Expense

Line #s	Descriptions	Notes	Page #'s & Instructions	End of Year
Depreciation Expense				
81	Depreciation-Transmission	(Note J & O)	p336.7.f	228,796,129
82	Depreciation-General & Common	(Note J & O)	p336.10&11.f	21,659,659
83	Depreciation-General Expense Associated with Acct. 397	(Note J & O)	Company Records	4,729,585
85	Depreciation-Intangible	(Note A & O)	p336.1.f	10,051,339
89	Transmission Depreciation Expense for Acct. 397	(Note J & O)	Company Records	1,658,353

Direct Assignment of Transmission Real Estate Taxes

Line #s	Descriptions	Notes	Page #'s & Instructions	End of Year	Transmission Related	Non-Transmission
92	Real Estate Taxes - Directly Assigned to Transmission		p263.33i	20,804,000	7,847,000	12,957,000

PSE&G's real estate taxes detail is in an access database which contains a list of the towns PSE&G pays taxes to, which are billed on a quarterly basis for various parcels of property by major classification. Every parcel is associated with a Lot & Block number. These Lot & Blocks are identified to a particular type of property and are labeled. This is the breakout of transmission real estate taxes from total electric.

Return \ Capitalization

Line #s	Descriptions	Notes	Page #'s & Instructions	2014 End of Year	2015 End of Year	Average
96	Proprietary Capital	(Note P)	p112.16.c.d	6,835,533,489	7,629,005,378	7,232,269,434
97	Accumulated Other Comprehensive Income Account 219	(Note P)	p112.15.c.d	1,732,845	1,227,004	1,479,925
99	Account 219-1	(Note P)	p119.53.c&d	3,323,160	3,474,616	3,398,888
101	Long Term Debt	(Note P)	p112.18.c.d thru 23.c.d	6,312,375,094	6,861,859,145	6,587,117,120
102	Loss on Reacquired Debt	(Note P)	p111.81.c.d	74,029,072	66,774,576	70,401,824
103	Gain on Reacquired Debt	(Note P)	p113.81.c.d	0	0	0
104	ADT associated with Gain or Loss on Reacquired Debt	(Note P)	p277.3.k.(footnote)	16,982,115	16,982,115	16,982,115
106	Preferred Stock	(Note P)	p112.3.c.d	0	0	0

MultiState Workpaper

Line #s	Descriptions	Notes	Page #'s & Instructions	State 1	State 2	State 3
121	Income Tax Rates SIT=State Income Tax Rate or Composite	(Note I)			NJ 9.00%	

Amortized Investment Tax Credit

Line #s	Descriptions	Notes	Page #'s & Instructions	End of Year
125	Amortized Investment Tax Credit	(Note O)	p266.8.f	868,656

Excluded Transmission Facilities

Line #s	Descriptions	Notes	Page #'s & Instructions	Form 1 Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Form 1 Dec	Average
141	Excluded Transmission Facilities	(Note B & M)		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Interest on Outstanding Network Credits Cost Support

Line #s	Descriptions	Notes	Page #'s & Instructions	End of Year
147	Interest on Network Credits	(Note N & O)		0

Facility Credits under Section 30.9 of the PJM OATT

Line #s	Descriptions	Notes	Page #'s & Instructions	End of Year
163	Revenue Requirement Facility Credits under Section 30.9 of the PJM OATT			0

PJM Load Cost Support

Line #s	Descriptions	Notes	Page #'s & Instructions	1 CP Peak
165	Network Zonal Service Rate 1 CP Peak	(Note L)	PJM Data	9,800.3

Abandoned Transmission Projects

Line #s	Descriptions	Notes	Page #'s & Instructions	BRH Project	Project X	Project Y
Attachment 7 a	Beginning Balance of Unamortized Transmission Projects		Per FERC Order	\$ -	\$ -	\$ -
b	Years remaining in Amortization Period		Per FERC Order	\$ -	\$ -	\$ -
81 c	Transmission Depreciation Expense Including Amortization of Limited Term Plant		(line a / line b)	\$ -	\$ -	\$ -
d	Ending Balance of Unamortized Transmission Projects		(line a - line c)	\$ -	\$ -	\$ -
e	Average Balance of Unamortized Abandoned Transmission Projects		(line a + d)/2	\$ -	\$ -	\$ -
g	Non Incentive Return and Income Taxes		(Appendix A line 137+ line 138)	\$ -	\$ -	\$ -
h	Rate Base		(Appendix A line 59)	\$ -	\$ -	\$ -
Attachment 7 i	Non Incentive Return and Income Taxes		(line g / line h)	\$ -	\$ -	\$ -
Docket No. ER12-2274-000 authorizing \$3,500,000 amortization over one-year recovery of BRH Abandoned Transmission Project				ER12-2274		

**Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 6 - True-up Adjustment for Network Integration Transmission Service - December 31, 2017**

The True-Up Adjustment component of the Formula Rate for each Rate Year beginning with 2010 shall be determined as follows:

- (i) Beginning with 2009, no later than June 15 of each year PSE&G shall recalculate an adjusted Annual Transmission Revenue Requirement for the previous calendar year based on its actual costs as reflected in its Form No. 1 and its books and records for that calendar year, consistent with FERC accounting policies.²
- (ii) PSE&G shall determine the difference between the recalculated Annual Transmission Revenue Requirement as determined in paragraph (i) above, and ATRR based on projected costs for the previous calendar year (True-Up Adjustment Before Interest).
- (iii) The True-Up Adjustment shall be determined as follows:
True-Up Adjustment equals the True-Up Adjustment Before Interest multiplied by $(1+i)^{24}$ months
Where: i = Sum of (the monthly rates for the 10 months ending October 31 of the current year and the monthly rates for the 12 months ending December 31 of the preceding year) divided by 21 months.

Summary of Formula Rate Process including True-Up Adjustment

Month	Year	Action
July	2008	TO populates the formula with Year 2008 estimated data
October	2008	TO populates the formula with Year 2009 estimated data
June	2009	TO populates the formula with Year 2008 actual data and calculates the 2008 True-Up Adjustment Before Interest
October	2009	TO calculates the Interest to include in the 2008 True-Up Adjustment
October	2009	TO populates the formula with Year 2010 estimated data and 2008 True-Up Adjustment
June	2010	TO populates the formula with Year 2009 actual data and calculates the 2009 True-Up Adjustment Before Interest
October	2010	TO calculates the Interest to include in the 2009 True-Up Adjustment
October	2010	TO populates the formula with Year 2011 estimated data and 2009 True-Up Adjustment
June	2011	TO populates the formula with Year 2010 actual data and calculates the 2010 True-Up Adjustment Before Interest
October	2011	TO calculates the Interest to include in the 2010 True-Up Adjustment
October	2011	TO populates the formula with Year 2012 estimated data and 2010 True-Up Adjustment
June	2012	TO populates the formula with Year 2011 actual data and calculates the 2011 True-Up Adjustment Before Interest
October	2012	TO calculates the Interest to include in the 2011 True-Up Adjustment
October	2012	TO populates the formula with Year 2013 estimated data and 2011 True-Up Adjustment
June	2013	TO populates the formula with Year 2012 actual data and calculates the 2012 True-Up Adjustment Before Interest
October	2013	TO calculates the Interest to include in the 2012 True-Up Adjustment
October	2013	TO populates the formula with Year 2014 estimated data and 2012 True-Up Adjustment
June	2014	TO populates the formula with Year 2013 actual data and calculates the 2013 True-Up Adjustment Before Interest
October	2014	TO calculates the Interest to include in the 2013 True-Up Adjustment
October	2014	TO populates the formula with Year 2015 estimated data and 2013 True-Up Adjustment
June	2015	TO populates the formula with Year 2014 actual data and calculates the 2014 True-Up Adjustment Before Interest
October	2015	TO calculates the Interest to include in the 2014 True-Up Adjustment
October	2015	TO populates the formula with Year 2016 estimated data and 2014 True-Up Adjustment
June	2016	TO populates the formula with Year 2015 actual data and calculates the 2015 True-Up Adjustment Before Interest
October	2016	TO calculates the Interest to include in the 2015 True-Up Adjustment
October	2016	TO populates the formula with Year 2017 estimated data and 2015 True-Up Adjustment

Formula Rate was not in effect for 2006 or 2007.

² To the extent possible each input to the Formula Rate used to calculate the actual Annual Transmission Revenue Requirement included in the True-Up Adjustment either will be taken directly from the FERC Form No. 1 or will be reconcilable to the FERC Form 1 by the application of clearly identified and supported information. If the reconciliation is provided through a worksheet included in the filed Formula Rate template, the inputs to the worksheet must meet this transparency standard, and doing so will satisfy this transparency requirement for the amounts that are output from the worksheet and input to the main body of the Formula Rate.

Calendar Year Complete for Each Calendar Year beginning in 2009

A	ATRR based on actual costs included for the previous calendar year but excludes the true-up adjustment.	884,004,745	
B	ATRR based on projected costs included for the previous calendar year but excludes the true-up adjustment.	918,419,851	
C	Difference (A-B)	-34,415,106	-<Note: for the first rate year, divide this
D	Future Value Factor $(1+i)^{24}$	1.06904	reconciliation amount by 12 and multiply
E	True-up Adjustment (C*D)	-36,791,241	by the number of months and fractional
			months the rate was in effect.

Where:
 i = average interest rate as calculated below

Interest on Amount of Refunds or Surcharges

Month	Yr	Month
January	Year 1	0.2800%
February	Year 1	0.2500%
March	Year 1	0.2800%
April	Year 1	0.2700%
May	Year 1	0.2800%
June	Year 1	0.2700%
July	Year 1	0.2800%
August	Year 1	0.2800%
September	Year 1	0.2700%
October	Year 1	0.2800%
November	Year 1	0.2700%
December	Year 1	0.2800%
January	Year 2	0.2800%
February	Year 2	0.2600%
March	Year 2	0.2800%
April	Year 2	0.2800%
May	Year 2	0.2900%
June	Year 2	0.2800%
July	Year 2	0.3000%
August	Year 2	0.3000%
September	Year 2	0.2900%
Average Interest Rate		0.2786%

Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2017

Estimated Additions - 2017													
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	
Other Projects PIS (Monthly additions)	Ridge Road 69kV Breaker Station (B1255) (monthly additions)	Cox's Corner- Lumberton 230kV Circuit (B1707) (monthly additions)	Sewaren Switch 230kV Conversion (B2276) (monthly additions)	Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B0436.10) (monthly additions)	Convert the Merion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B0436.21) (monthly additions)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B0436.22) (monthly additions)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B0436.33) (monthly additions)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B0436.60) (monthly additions)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B0436.70) (monthly additions)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B0436.81) (monthly additions)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B0436.83) (monthly additions)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B0436.84) (monthly additions)	
	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	
Dec-16	8,630,726,699	3,894,069	31,718,020	117,787,484	174,934,564	23,542,140	23,542,140	379,627	379,627	379,627	746,033	746,033	
Jan	7,018,333.00			200,000									
Feb	809,333.00			200,000									
Mar	74,545,333.00			150,000									
Apr	10,954,333.00												
May	135,078,869.35				831,844	831,844	831,844				100,000	100,000	
Jun	276,465,893.00						14,245,750	14,245,750	14,245,750	14,245,750	9,202,909	9,202,909	
Jul	3,876,333.00						111,111	111,111	111,111	111,111	111,111	111,111	
Aug	4,113,333.00												
Sep	27,941,333.00												
Oct	31,860,185.00	31,698,148											
Nov	54,119,492.00	50,000						3,052,841					
Dec	298,274,629.00	54,000					334,949	30,440,109	334,949	334,949	334,949	334,949	
Total	9,555,785,098	35,696,237	31,718,020	118,337,484	175,766,388	24,373,985	24,373,985	15,071,438	48,229,438	15,071,438	24,740,752	24,740,752	36,210,096

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2017

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Estimated Transmission Enhancement Charges (Before True-Up) - 2017												
Total Projects	Branchburg (B0130)	Kittatinny (B0134)	Essex Aldene (B0145)	New Freedom Trans (B0411)	New Freedom Loop (B0498)	Metuchen Transformer (B0161)	Branchburg-Flagtown-Somerville (B0169)	Flagtown-Somerville-Bridgewater (B0170)	Roseland Transformers (B0274)	Wave Trap Branchburg (B0172.2)	Reconductor Hudson - South Waterfront (B0813)	Reconductor South Mahwah J-3410 Circuit (B1017)
583,935,897	2,176,785	882,891	9,471,778	2,398,697	3,045,575	2,954,897	1,795,196	784,820	2,410,045	3,081	1,082,298	2,463,182

Actual Transmission Enhancement Charges - 2015												
Total Projects	Branchburg (B0130)	Kittatinny (B0134)	Essex Aldene (B0145)	New Freedom Trans (B0411)	New Freedom Loop (B0498)	Metuchen Transformer (B0161)	Branchburg-Flagtown-Somerville (B0169)	Flagtown-Somerville-Bridgewater (B0170)	Roseland Transformers (B0274)	Wave Trap Branchburg (B0172.2)	Reconductor Hudson - South Waterfront (B0813)	Reconductor South Mahwah J-3410 Circuit (B1017)
441,614,467	2,397,208	970,998	10,416,881	2,639,133	3,346,067	3,244,794	1,871,555	862,264	2,646,618	3,388	1,187,289	2,701,236

Reconciliation by Project (without interest)												
Total Projects	Branchburg (B0130)	Kittatinny (B0134)	Essex Aldene (B0145)	New Freedom Trans (B0411)	New Freedom Loop (B0498)	Metuchen Transformer (B0161)	Branchburg-Flagtown-Somerville (B0169)	Flagtown-Somerville-Bridgewater (B0170)	Roseland Transformers (B0274)	Wave Trap Branchburg (B0172.2)	Reconductor Hudson - South Waterfront (B0813)	Reconductor South Mahwah J-3410 Circuit (B1017)
(37,470,926)	(240,601)	9,698	(1,329,286)	(265,195)	(388,081)	931,538	8,414	(181,331)	431,576	(12,049)	(328,205)	494,896

Interest	1,06904	1,06904	1,06904	1,06904	1,06904	1,06904	1,06904	1,06904	1,06904	1,06904	1,06904	1,06904
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True Up by Project (with interest) - 2015												
Total Projects	Branchburg (B0130)	Kittatinny (B0134)	Essex Aldene (B0145)	New Freedom Trans (B0411)	New Freedom Loop (B0498)	Metuchen Transformer (B0161)	Branchburg-Flagtown-Somerville (B0169)	Flagtown-Somerville-Bridgewater (B0170)	Roseland Transformers (B0274)	Wave Trap Branchburg (B0172.2)	Reconductor Hudson - South Waterfront (B0813)	Reconductor South Mahwah J-3410 Circuit (B1017)
(40,058,045)	(257,213)	10,271	(1,421,064)	(283,505)	(414,875)	995,855	8,994	(193,851)	461,373	(12,881)	(350,866)	529,065

Estimated Transmission Enhancement Charges (After True-Up) - 2017												
Total Projects	Branchburg (B0130)	Kittatinny (B0134)	Essex Aldene (B0145)	New Freedom Trans (B0411)	New Freedom Loop (B0498)	Metuchen Transformer (B0161)	Branchburg-Flagtown-Somerville (B0169)	Flagtown-Somerville-Bridgewater (B0170)	Roseland Transformers (B0274)	Wave Trap Branchburg (B0172.2)	Reconductor Hudson - South Waterfront (B0813)	Reconductor South Mahwah J-3410 Circuit (B1017)
543,877,952	1,919,572	893,162	8,050,714	2,115,192	2,630,700	3,950,752	1,804,191	590,969	2,871,418	(9,800)	731,433	2,992,247

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment GA - Project Specific Estimate and Reconciliation Worksheet - December 31, 2017

Estimated Additions - 2017													
(N)	(O)	(P)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(AB)
Convert the Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85) (monthly additions)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90) (monthly additions)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10) (monthly additions)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11) (monthly additions)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20) (monthly additions)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21) (monthly additions)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30) (monthly additions)	Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10) (monthly additions)	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21) (monthly additions)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22) (monthly additions)	Construct a new Bayonne 345 kV circuit and any associated substation upgrades (B2436.33) (monthly additions)	Construct a new North Ave - Bayonne 345 kV circuit and any associated substation upgrades (B2436.34) (monthly additions)	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades (B2436.50) (monthly additions)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to 345 kV, and any associated substation upgrades (B2436.60) (monthly additions)
(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP
746,033	28,424,889	25,651,961	25,651,961	378,627	378,627	2,198,436	4,625,362	14,778,172	3,714,412	49,155,059	38,606,395	24,972,388	14,218,134
							200,891	1,514,456	1,514,456	4,471,494	2,983,818	2,445,601	1,492,800
							157,145	772,139	772,139	1,615,457	5,294,067	3,772,152	2,011,913
							84,346	2,665,294	2,665,294	10,402,961	3,908,591	2,726,938	1,464,903
							70,466	1,139,869	1,139,869	5,544,882	8,324,360	3,755,273	1,697,247
							(750,521)	278,546	278,546	2,766,124	693,122	668,620	4,604,903
							240,780	1,006,698	1,007,433	(10,134,914)	(2,391,753)	3,673,331	(10,831,235)
							165,541	514,043	549,243	14,398,652	10,969,071	3,344,325	1,364,897
							143,039	141,297	173,205	7,110,731	5,690,922	2,418,229	1,459,955
							143,996	71,435	104,310	9,564,096	3,942,417	1,019,996	1,505,400
							117,436	57,308	84,551	4,363,711	3,130,713	761,645	5,763,798
							99,697	837,601	837,601	3,619,909	7,113,736	496,425	(705,983)
							(3,027,181)	150,811	423,870	231,110	11,738,046	206,651	(19,809,090)
334,949	29,256,534	25,651,961	25,651,961	15,071,438	15,071,438	58,015,888	2,271,018	23,927,668	13,263,928	103,139,173	100,004,406	50,261,443	4,257,610

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2017

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Estimated Transmission Enhancement Charges (Before True-Up) - 2017													
Reconductor South Mahwah K-3411 Circuit (B1018)	Branchburg 400 MVAR Capacitor (B0290)	Saddle Brook - Athenia Upgrade Cable (B0472)	Branchburg-Somerville-Flagtown Reconductor (B0664 & B0665)	Somerville-Bridgewater Reconductor (B0668)	New Essex-Kearny 138 kV circuit and Kearny 138 kV bus tie (B0814)	Salem 500 kV breakers (B1410-B1415)	230kV Lawrence Switching Station Upgrade (B1228)	Branchburg-Middlesex Switch Rack (B1155)	Aldene-Springfield Rd. Conversion (B1399)	Upgrade Camden-Richmond 230kV Circuit (B1590)	Susquehanna Roseland Breakers (B0489.5-B0489.15)	Susquehanna Roseland < 500KV (B0489.4)	Susquehanna Roseland > 500KV (B0489)
2,557,912	9,808,871	1,757,923	2,272,904	783,889	5,685,123	1,979,240	2,755,781	8,650,024	9,280,898	1,449,606	737,976	5,413,780	97,799,286

Actual Transmission Enhancement Charges - 2015													
Reconductor South Mahwah K-3411 Circuit (B1018)	Branchburg 400 MVAR Capacitor (B0290)	Saddle Brook - Athenia Upgrade Cable (B0472)	Branchburg-Somerville-Flagtown Reconductor (B0664 & B0665)	Somerville-Bridgewater Reconductor (B0668)	New Essex-Kearny 138 kV circuit and Kearny 138 kV bus tie (B0814)	Salem 500 kV breakers (B1410-B1415)	230kV Lawrence Switching Station Upgrade (B1228)	Branchburg-Middlesex Switch Rack (B1155)	Aldene-Springfield Rd. Conversion (B1399)	Upgrade Camden-Richmond 230kV Circuit (B1590)	Susquehanna Roseland Breakers (B0489.5-B0489.15)	Susquehanna Roseland < 500KV (B0489.4)	Susquehanna Roseland > 500KV (B0489)
2,804,096	10,749,859	1,926,521	2,491,058	858,935	6,228,271	2,168,874	3,017,865	8,688,697	10,056,881	1,570,150	808,174	5,917,569	103,713,135

Reconciliation by Project (without interest)													
Reconductor South Mahwah K-3411 Circuit (B1018)	Branchburg 400 MVAR Capacitor (B0290)	Saddle Brook - Athenia Upgrade Cable (B0472)	Branchburg-Somerville-Flagtown Reconductor (B0664 & B0665)	Somerville-Bridgewater Reconductor (B0668)	New Essex-Kearny 138 kV circuit and Kearny 138 kV bus tie (B0814)	Salem 500 kV breakers (B1410-B1415)	230kV Lawrence Switching Station Upgrade (B1228)	Branchburg-Middlesex Switch Rack (B1155)	Aldene-Springfield Rd. Conversion (B1399)	Upgrade Camden-Richmond 230kV Circuit (B1590)	Susquehanna Roseland Breakers (B0489.5-B0489.15)	Susquehanna Roseland < 500KV (B0489.4)	Susquehanna Roseland > 500KV (B0489)
54,049	101,112	91,169	387,496	(126,234)	(406,739)	(69,504)	(1,700,687)	2,496,384	5,237,330	1,570,150	(486,948)	1,122,037	(8,317,198)
1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904

True Up by Project (with interest) - 2015													
Reconductor South Mahwah K-3411 Circuit (B1018)	Branchburg 400 MVAR Capacitor (B0290)	Saddle Brook - Athenia Upgrade Cable (B0472)	Branchburg-Somerville-Flagtown Reconductor (B0664 & B0665)	Somerville-Bridgewater Reconductor (B0668)	New Essex-Kearny 138 kV circuit and Kearny 138 kV bus tie (B0814)	Salem 500 kV breakers (B1410-B1415)	230kV Lawrence Switching Station Upgrade (B1228)	Branchburg-Middlesex Switch Rack (B1155)	Aldene-Springfield Rd. Conversion (B1399)	Upgrade Camden-Richmond 230kV Circuit (B1590)	Susquehanna Roseland Breakers (B0489.5-B0489.15)	Susquehanna Roseland < 500KV (B0489.4)	Susquehanna Roseland > 500KV (B0489)
57,780	108,093	97,464	414,250	(134,949)	(434,822)	(74,302)	(1,818,108)	2,668,743	5,598,933	1,678,558	(520,569)	1,199,506	(8,891,446)

Estimated Transmission Enhancement Charges (After True-Up) - 2017													
Reconductor South Mahwah K-3411 Circuit (B1018)	Branchburg 400 MVAR Capacitor (B0290)	Saddle Brook - Athenia Upgrade Cable (B0472)	Branchburg-Somerville-Flagtown Reconductor (B0664 & B0665)	Somerville-Bridgewater Reconductor (B0668)	New Essex-Kearny 138 kV circuit and Kearny 138 kV bus tie (B0814)	Salem 500 kV breakers (B1410-B1415)	230kV Lawrence Switching Station Upgrade (B1228)	Branchburg-Middlesex Switch Rack (B1155)	Aldene-Springfield Rd. Conversion (B1399)	Upgrade Camden-Richmond 230kV Circuit (B1590)	Susquehanna Roseland Breakers (B0489.5-B0489.15)	Susquehanna Roseland < 500KV (B0489.4)	Susquehanna Roseland > 500KV (B0489)
2,615,692	9,916,964	1,855,386	2,687,154	648,940	5,250,301	1,904,937	937,673	11,318,767	14,879,631	3,128,164	217,407	6,613,287	88,907,841

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2017

Estimated Additions - 2017												
(AC)	(AD)	(AE)	(AF)	(AG)	(AH)	(AI)	(AJ)	(AK)	(AL)	(AM)	(AN)	(AO)
Construct a new Airport-Bayway 345 kV circuit and any associated substation upgrades (B2436.70) (monthly additions)	Relocate the overhead portion of Linden - North Ave "1" 138 kV Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81) (monthly additions)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83) (monthly additions)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84) (monthly additions)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85) (monthly additions)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90) (monthly additions)	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated substation upgrades (B2436.91) (monthly additions)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10) (monthly additions)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11) (monthly additions)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20) (monthly additions)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21) (monthly additions)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30) (monthly additions)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33) (monthly additions)
CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP
42,282,365	18,236,335	18,236,335	22,366,079	22,366,079	1,614,587	989,183	1,161,480	1,190,502	8,535,498	8,536,190	33,224,907	2,350,713
1,149,765	524,126	524,126	1,638,738	1,638,738	178,117	142,556	3,254	3,254	95,263	95,263	2,558,110	1,354,119
4,006,008	801,777	801,777	1,358,137	1,358,137	114,787	87,616	1,999	1,999	638,059	638,059	982,311	673,596
2,330,959	121,578	121,578	457,506	457,506	70,596	35,302	2,709	2,709	101,816	101,816	94,871	2,614,579
4,140,080	72,396	72,396	202,460	202,460	54,389	12,189	3,282	3,282	132,757	132,757	(362,165)	1,109,663
2,251,829	(8,761,866)	(8,761,866)	(8,738,200)	(8,738,200)	(766,599)	(753,083)	4,541	4,541	523,915	523,915	(36,136,389)	1,079,154
(10,744,291)	(10,983,937)	(10,983,937)	(17,222,953)	(17,222,953)	186,344	131,016	4,228	4,228	(9,697,733)	(9,698,467)	397,817	415,904
2,634,327	181,909	181,909	189,565	189,565	86,847	6,742	6,120	6,120	(56,647)	(56,847)	1,431,336	473,101
1,575,657	177,768	177,768	184,911	184,911	81,004	6,268	5,542	5,542	44,383	44,383	800,315	103,120
924,483	275,135	275,135	282,494	282,494	85,728	8,725	5,627	5,627	78,277	78,277	1,181,149	29,834
855,836	314,441	314,441	320,539	320,539	123,637	5,343	4,663	4,663	238,204	238,204	457,421	24,722
518,378	268,980	268,980	277,484	277,484	324,352	7,450	6,502	6,502	222,766	222,766	277,282	754,175
3,713,643	(1,175,507)	(1,175,507)	(1,316,761)	(1,316,761)	268,376	(659,909)	2,921	2,921	(856,557)	(856,514)	(4,916,965)	3,082,418
55,639,039	53,134	53,134	0	0	2,422,164	(0)	1,212,870	1,241,892	0	0	(0)	14,065,098

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2017

Estimated Transmission Enhancement Charges (Before True-Up) - 2017												
Burlington - Camden 230kV Conversion (B1156)	Mickleton-Gloucester-Camden(B1398)	North Central Reliability (West Orange Conversion) (B1154)	Northeast Grid Reliability Project (B1304.1- B1304.4)	Northeast Grid Reliability Project (B1304.5- B1304.21)	Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10)	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83)
44,933,061	56,992,730	46,192,451	81,902,152	47,792,699	23,318,838	3,199,550	3,199,550	1,090,341	1,464,046	1,090,341	1,908,566	1,908,566

Actual Transmission Enhancement Charges - 2015												
Burlington - Camden 230kV Conversion (B1156)	Mickleton-Gloucester-Camden(B1398)	North Central Reliability (West Orange Conversion) (B1154)	Northeast Grid Reliability Project (B1304.1- B1304.4)	Northeast Grid Reliability Project (B1304.5- B1304.21)	Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10)	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83)
47,814,854	39,857,912	50,370,637	46,859,053	-	-	-	-	2,441	2,441	2,441	2,441	2,441

Reconciliation by Project (without interest)												
Burlington - Camden 230kV Conversion (B1156)	Mickleton-Gloucester-Camden(B1398)	North Central Reliability (West Orange Conversion) (B1154)	Northeast Grid Reliability Project (B1304.1- B1304.4)	Northeast Grid Reliability Project (B1304.5- B1304.21)	Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10)	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83)
(15,649,808)	(3,407,055)	(45,038,492)	(19,684,688)	-	(170,148)	-	-	-	2,441	2,441	2,441	2,441

1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904
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True Up by Project (with interest) - 2015												
Burlington - Camden 230kV Conversion (B1156)	Mickleton-Gloucester-Camden(B1398)	North Central Reliability (West Orange Conversion) (B1154)	Northeast Grid Reliability Project (B1304.1- B1304.4)	Northeast Grid Reliability Project (B1304.5- B1304.21)	Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10)	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83)
(16,730,324)	(3,642,290)	(48,148,101)	(21,043,785)	-	(181,895)	-	-	2,610	2,610	2,610	2,610	2,610

Estimated Transmission Enhancement Charges (After True-Up) - 2017												
Burlington - Camden 230kV Conversion (B1156)	Mickleton-Gloucester-Camden(B1398)	North Central Reliability (West Orange Conversion) (B1154)	Northeast Grid Reliability Project (B1304.1- B1304.4)	Northeast Grid Reliability Project (B1304.5- B1304.21)	Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10)	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83)
28,202,737	53,350,440	(1,955,650)	60,858,367	47,792,699	23,136,943	3,199,550	3,199,550	1,092,991	1,466,656	1,092,991	1,911,176	1,911,176

Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2017

Estimated Transmission Enhancement Charges (Before True-Up) - 2017													
Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30)	Upgrade Eagle Point-Gloucester 230kV Circuit (B1588)	Mickleton-Gloucester 230kV Circuit (B2139)	Ridge Road 69kV Breaker Station (B1255)	Cox's Corner-Lumberton 230kV Circuit (B1787)	Sewaren Switch 230kV Conversion (B2276)	Susquehanna Roseland < 500kV (B0489.4) (CWIP)
2,737,100	2,737,100	3,843,966	3,405,679	3,405,679	1,090,341	1,090,341	4,909,357	1,565,912	2,478,656	1,488,600	4,157,150	15,669,478	-

Actual Transmission Enhancement Charges - 2015													
Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30)	Upgrade Eagle Point-Gloucester 230kV Circuit (B1588)	Mickleton-Gloucester 230kV Circuit (B2139)	Ridge Road 69kV Breaker Station (B1255)	Cox's Corner-Lumberton 230kV Circuit (B1787)	Sewaren Switch 230kV Conversion (B2276)	Susquehanna Roseland < 500kV (B0489.4) (CWIP)
2,441	2,441	-	-	-	2,441	2,441	-	1,282,387	1,375,013	-	1,096,185	928,580	-

Reconciliation by Project (without interest)													
Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30)	Upgrade Eagle Point-Gloucester 230kV Circuit (B1588)	Mickleton-Gloucester 230kV Circuit (B2139)	Ridge Road 69kV Breaker Station (B1255)	Cox's Corner-Lumberton 230kV Circuit (B1787)	Sewaren Switch 230kV Conversion (B2276)	Susquehanna Roseland < 500kV (B0489.4) (CWIP)
2,441	2,441	-	-	-	2,441	2,441	-	524,773	297,158	(2,349,496)	1,096,185	928,580	1,437,708

1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904
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True Up by Project (with interest) - 2015													
Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30)	Upgrade Eagle Point-Gloucester 230kV Circuit (B1588)	Mickleton-Gloucester 230kV Circuit (B2139)	Ridge Road 69kV Breaker Station (B1255)	Cox's Corner-Lumberton 230kV Circuit (B1787)	Sewaren Switch 230kV Conversion (B2276)	Susquehanna Roseland < 500kV (B0489.4) (CWIP)
2,610	2,610	-	-	-	2,610	2,610	-	561,005	317,675	(2,511,713)	1,171,869	992,693	1,536,972

Estimated Transmission Enhancement Charges (After True-Up) - 2017													
Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30)	Upgrade Eagle Point-Gloucester 230kV Circuit (B1588)	Mickleton-Gloucester 230kV Circuit (B2139)	Ridge Road 69kV Breaker Station (B1255)	Cox's Corner-Lumberton 230kV Circuit (B1787)	Sewaren Switch 230kV Conversion (B2276)	Susquehanna Roseland < 500kV (B0489.4) (CWIP)
2,739,710	2,739,710	3,843,966	3,405,679	3,405,679	1,092,951	1,092,951	4,909,357	2,126,917	2,796,331	(1,023,113)	5,329,019	16,662,171	1,536,972

Public Service Electric and Gas Company
 ATTACHMENT H-10A
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Estimated Additions - 2017													
(BA)	(BB)	(BC)	(BD)	(BE)	(BF)	(BG)	(BH)	(BI)	(BJ)	(BK)	(BL)	(BM)	(BN)
Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30)	Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10)	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33)	Construct a new North Ave - Bayonne 345 kV circuit and any associated substation upgrades (B2436.34)
(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	CWIP	CWIP	CWIP	CWIP	CWIP
746.033	746.033	746.033	28,424,689	25,651,961	25,651,961	379,627	379,627	2,198,436	4,626,362	14,778,172	3,714,412	49,155,059	38,606,306
746.033	746.033	746.033	28,424,689	25,651,961	25,651,961	379,627	379,627	2,198,436	4,626,273	16,292,628	5,228,868	53,626,554	41,590,213
746.033	746.033	746.033	28,424,689	25,651,961	25,651,961	379,627	379,627	2,198,436	4,983,418	17,064,767	6,001,007	55,242,011	46,884,280
746.033	746.033	746.033	28,424,689	25,651,961	25,651,961	379,627	379,627	2,198,436	5,067,764	19,730,061	8,666,301	65,644,972	50,732,672
846.033	846.033	846.033	28,424,689	25,651,961	25,651,961	379,627	379,627	2,798,436	5,136,231	20,869,930	9,806,170	71,189,854	59,117,231
10,048,942	10,048,942	10,048,942	29,256,534	25,651,961	25,651,961	379,627	379,627	58,015,888	4,387,710	21,148,476	10,084,716	73,955,979	59,810,353
24,294,692	35,764,036	35,764,036	29,256,534	25,651,961	25,651,961	14,625,377	14,625,377	58,015,888	4,628,490	22,155,174	11,092,149	63,821,065	57,418,600
24,405,803	35,875,147	35,875,147	29,256,534	25,651,961	25,651,961	14,736,488	14,736,488	58,015,888	4,794,031	22,669,217	11,640,392	79,219,617	68,389,571
24,405,803	35,875,147	35,875,147	29,256,534	25,651,961	25,651,961	14,736,488	14,736,488	58,015,888	4,937,070	22,810,514	11,813,597	85,330,348	74,079,483
24,405,803	35,875,147	35,875,147	29,256,534	25,651,961	25,651,961	14,736,488	14,736,488	58,015,888	5,081,066	22,881,948	11,917,907	94,894,443	79,021,910
24,405,803	35,875,147	35,875,147	29,256,534	25,651,961	25,651,961	14,736,488	14,736,488	58,015,888	5,198,502	23,039,296	12,002,458	99,268,155	81,152,653
24,405,803	35,875,147	35,875,147	29,256,534	25,651,961	25,651,961	14,736,488	14,736,488	58,015,888	5,295,159	23,176,987	12,840,058	102,908,064	85,256,390
24,740,752	36,210,096	36,210,096	29,256,534	25,651,961	25,651,961	15,071,438	15,071,438	58,015,888	2,271,018	23,927,668	13,263,928	103,139,173	100,004,406
184,943,564	265,228,974	265,228,974	376,175,716	333,475,494	333,475,494	105,657,016	105,657,016	475,719,285	61,237,152	271,044,669	128,071,965	996,415,294	844,133,308
14,226,428	20,402,229	20,402,229	28,936,594	25,651,961	25,651,961	8,127,463	8,127,463	36,593,791	4,710,550	20,849,590	9,851,690	76,647,330	64,933,331
7.48	7.32	7.32	12.86	13.00	13.00	7.01	7.01	8.20	26.96	11.33	9.66	9.66	8.44
									4,710,550	20,849,590	9,851,690	76,647,330	64,933,331

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2017

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Estimated Transmission Enhancement Charges (Before True-Up) - 2017													
Susquehanna Roseland => 500kV (B0489) (CWIP)	North Central Reliability (West Orange Conversion) (B1154) (CWIP)	Mickleton-Glooucester- Camden(B1398- B1398.7) (CWIP)	Mickleton-Glooucester- Camden Breakers (B1398.15-B1398.19) (CWIP)	Burlington - Camden 230kV Conversion (B1156) (CWIP)	Burlington - Camden 230kV Conversion (B1156.13- B1156.20) (CWIP)	Northeast Grid Reliability Project (B1304.1- B1304.4) (CWIP)	Northeast Grid Reliability Project (B1304.5-B1304.21) (CWIP)	Convert the Bergen Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10) (CWIP)	Convert the Marion- Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21) (CWIP)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22) (CWIP)	Construct a new Bayway Bayonne 345 kV circuit and any associated substation upgrades (B2436.33) (CWIP)	Construct a new North Ave - Bayonne 345 kV circuit and any associated substation upgrades (B2436.34) (CWIP)	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades (B2436.50) (CWIP)
-	-	-	-	-	-	-	-	519,803	2,300,724	1,087,121	8,457,930	7,165,306	4,476,177

Actual Transmission Enhancement Charges - 2015													
Susquehanna Roseland => 500kV (B0489) (CWIP)	North Central Reliability (West Orange Conversion) (B1154) (CWIP)	Mickleton-Glooucester- Camden(B1398- B1398.7) (CWIP)	Mickleton-Glooucester- Camden Breakers (B1398.15-B1398.19) (CWIP)	Burlington - Camden 230kV Conversion (B1156) (CWIP)	Burlington - Camden 230kV Conversion (B1156.13- B1156.20) (CWIP)	Northeast Grid Reliability Project (B1304.1- B1304.4) (CWIP)	Northeast Grid Reliability Project (B1304.5-B1304.21) (CWIP)	Convert the Bergen Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10) (CWIP)	Convert the Marion- Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21) (CWIP)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22) (CWIP)	Construct a new Bayway Bayonne 345 kV circuit and any associated substation upgrades (B2436.33) (CWIP)	Construct a new North Ave - Bayonne 345 kV circuit and any associated substation upgrades (B2436.34) (CWIP)	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades (B2436.50) (CWIP)
1,955,563	-	9,560,846	24,003	-	-	31,772,294	2,336,445	3,818,309	836,684	819,896	530,656	105,699	178,025

Reconciliation by Project (without interest)													
Susquehanna Roseland => 500kV (B0489) (CWIP)	North Central Reliability (West Orange Conversion) (B1154) (CWIP)	Mickleton-Glooucester- Camden(B1398- B1398.7) (CWIP)	Mickleton-Glooucester- Camden Breakers (B1398.15-B1398.19) (CWIP)	Burlington - Camden 230kV Conversion (B1156) (CWIP)	Burlington - Camden 230kV Conversion (B1156.13- B1156.20) (CWIP)	Northeast Grid Reliability Project (B1304.1- B1304.4) (CWIP)	Northeast Grid Reliability Project (B1304.5-B1304.21) (CWIP)	Convert the Bergen Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10) (CWIP)	Convert the Marion- Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21) (CWIP)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22) (CWIP)	Construct a new Bayway Bayonne 345 kV circuit and any associated substation upgrades (B2436.33) (CWIP)	Construct a new North Ave - Bayonne 345 kV circuit and any associated substation upgrades (B2436.34) (CWIP)	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades (B2436.50) (CWIP)
(1,773,865)	14,932,131	46,065	(83,909)	8,889,934	(1,345,566)	21,906,193	(2,492,734)	2,028,469	401,257	390,077	10,765	(193,155)	14,023

1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904
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True Up by Project (with interest) - 2015													
Susquehanna Roseland => 500kV (B0489) (CWIP)	North Central Reliability (West Orange Conversion) (B1154) (CWIP)	Mickleton-Glooucester- Camden(B1398- B1398.7) (CWIP)	Mickleton-Glooucester- Camden Breakers (B1398.15-B1398.19) (CWIP)	Burlington - Camden 230kV Conversion (B1156) (CWIP)	Burlington - Camden 230kV Conversion (B1156.13- B1156.20) (CWIP)	Northeast Grid Reliability Project (B1304.1- B1304.4) (CWIP)	Northeast Grid Reliability Project (B1304.5-B1304.21) (CWIP)	Convert the Bergen Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10) (CWIP)	Convert the Marion- Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21) (CWIP)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22) (CWIP)	Construct a new Bayway Bayonne 345 kV circuit and any associated substation upgrades (B2436.33) (CWIP)	Construct a new North Ave - Bayonne 345 kV circuit and any associated substation upgrades (B2436.34) (CWIP)	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades (B2436.50) (CWIP)
(1,896,338)	15,963,096	49,246	(89,702)	9,503,725	(1,438,469)	23,416,670	(2,664,841)	2,168,522	428,961	417,010	11,508	(206,491)	14,991

Estimated Transmission Enhancement Charges (After True-Up) - 2017													
Susquehanna Roseland => 500kV (B0489) (CWIP)	North Central Reliability (West Orange Conversion) (B1154) (CWIP)	Mickleton-Glooucester- Camden(B1398- B1398.7) (CWIP)	Mickleton-Glooucester- Camden Breakers (B1398.15-B1398.19) (CWIP)	Burlington - Camden 230kV Conversion (B1156) (CWIP)	Burlington - Camden 230kV Conversion (B1156.13- B1156.20) (CWIP)	Northeast Grid Reliability Project (B1304.1- B1304.4) (CWIP)	Northeast Grid Reliability Project (B1304.5-B1304.21) (CWIP)	Convert the Bergen Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10) (CWIP)	Convert the Marion- Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21) (CWIP)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22) (CWIP)	Construct a new Bayway Bayonne 345 kV circuit and any associated substation upgrades (B2436.33) (CWIP)	Construct a new North Ave - Bayonne 345 kV circuit and any associated substation upgrades (B2436.34) (CWIP)	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades (B2436.50) (CWIP)
(1,896,338)	15,963,096	49,246	(89,702)	9,503,725	(1,438,469)	23,416,670	(2,664,841)	2,088,325	2,729,685	1,304,131	8,469,439	6,958,616	4,491,168

Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2017

Estimated Additions - 2017														
(BO)	(BP)	(BQ)	(BR)	(BS)	(BT)	(BU)	(BV)	(BW)	(BX)	(BY)	(BZ)	(CA)	(CB)	(CC)
Construct a new North Ave Airport 345 kV circuit and any associated substation upgrades (B2436.50)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70)	Relocate the overhead portion of Linden - North Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90)	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated substation upgrades (B2436.91)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33)
CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP	CWIP
24,972,988	14,218,134	42,282,365	18,236,335	18,236,335	22,366,079	22,366,079	1,614,587	969,193	1,161,480	1,190,502	8,535,498	8,536,190	33,234,907	2,350,713
27,417,988	15,710,934	43,432,130	18,760,460	18,760,460	24,004,817	24,004,817	1,792,704	1,111,740	1,164,734	1,193,755	8,630,761	8,631,453	35,793,017	3,704,832
31,190,140	17,722,847	47,438,137	19,562,238	19,562,238	25,362,954	25,362,954	1,907,491	1,199,355	1,166,733	1,195,755	9,268,820	9,269,511	36,775,328	4,378,428
33,916,949	19,157,749	49,769,096	19,893,815	19,893,815	25,820,461	25,820,461	1,975,087	1,235,257	1,169,442	1,198,463	9,370,635	9,371,327	36,870,200	4,993,007
37,672,221	20,884,997	53,909,176	19,756,211	19,756,211	26,022,921	26,022,921	2,032,476	1,247,447	1,172,724	1,201,745	9,503,392	9,504,084	36,508,035	8,102,670
38,340,841	25,489,899	56,161,005	10,994,345	10,994,345	17,284,721	17,284,721	1,265,877	494,364	1,177,265	1,206,287	10,027,307	10,027,999	37,146	9,181,824
42,014,172	14,658,864	45,416,715	10,408	10,408	61,767	61,767	1,452,221	625,380	1,181,493	1,210,515	329,675	329,532	769,462	8,597,728
45,558,097	16,023,511	49,051,042	192,317	192,317	251,333	251,333	1,539,068	632,122	1,187,513	1,216,636	272,895	272,895	2,200,799	10,070,829
47,776,726	17,483,486	49,626,699	370,086	370,086	436,244	436,244	1,620,072	636,390	1,193,156	1,222,178	317,310	317,267	3,001,113	10,173,949
48,798,723	18,998,896	50,551,182	645,220	645,220	718,738	718,738	1,705,799	647,116	1,198,783	1,227,805	395,587	395,544	4,182,262	10,203,783
49,558,367	24,772,684	51,407,018	959,661	959,661	1,039,277	1,039,277	1,829,437	692,459	1,203,446	1,232,468	633,791	633,748	4,639,693	10,238,595
50,054,792	24,056,700	51,925,356	1,228,641	1,228,641	1,316,761	1,316,761	2,153,798	699,908	1,203,949	1,238,971	856,537	856,514	4,819,965	10,582,680
50,261,443	4,267,610	55,639,039	53,134	53,134	0	0	2,422,164	(0)	1,212,870	1,241,892	0	0	(0)	14,065,098
527,331,247	233,466,121	645,698,999	110,452,871	110,452,871	144,686,074	144,686,074	23,313,771	10,112,723	15,399,688	15,776,971	58,142,161	58,146,053	199,263,415	110,034,048
40,563,942	17,958,932	49,662,231	8,496,375	8,496,375	11,129,698	11,129,698	1,793,367	777,902	1,184,591	1,213,613	4,472,474	4,472,773	15,327,955	8,464,158
10.49	54.84	11.60	2,078.76	2,078.76	13.00	13.00	9.63	13.00	12.70	12.70	13.00	13.00	13.00	7.82
40,563,942	17,958,932	49,662,231	8,496,375	8,496,375	11,129,698	11,129,698	1,793,367	777,902	1,184,591	1,213,613	4,472,474	4,472,773	15,327,955	8,464,158

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2017

Estimated Transmission Enhancement Charges (Before True-Up) - 2017													
Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60) (CWIP)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70) (CWIP)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81) (CWIP)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83) (CWIP)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84) (CWIP)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85) (CWIP)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90) (CWIP)	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated upgrades (B2436.91) (CWIP)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10) (CWIP)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11) (CWIP)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20) (CWIP)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21) (CWIP)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30) (CWIP)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33) (CWIP)
1,981,744	5,490,161	937,564	937,564	1,228,147	1,228,147	197,896	85,840	130,718	133,921	493,532	493,565	1,691,419	934,008

Actual Transmission Enhancement Charges - 2015													
Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60) (CWIP)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70) (CWIP)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81) (CWIP)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83) (CWIP)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84) (CWIP)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85) (CWIP)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90) (CWIP)	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated upgrades (B2436.91) (CWIP)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10) (CWIP)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11) (CWIP)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20) (CWIP)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21) (CWIP)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30) (CWIP)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33) (CWIP)
209,207	414,795	249,912	249,912	236,839	236,839	849,382	780,003	1,506,352	1,530,122	148,281	148,345	101,157	20,804

Reconciliation by Project (without interest)													
Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60) (CWIP)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70) (CWIP)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81) (CWIP)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83) (CWIP)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84) (CWIP)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85) (CWIP)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90) (CWIP)	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated upgrades (B2436.91) (CWIP)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10) (CWIP)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11) (CWIP)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20) (CWIP)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21) (CWIP)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30) (CWIP)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33) (CWIP)
174,669	143,477	40,974	40,974	26,959	26,959	420,618	370,802	624,921	648,692	133,935	133,998	(86,377)	8,401
1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904	1.06904

True Up by Project (with interest) - 2015													
Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60) (CWIP)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70) (CWIP)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81) (CWIP)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83) (CWIP)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84) (CWIP)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85) (CWIP)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90) (CWIP)	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated upgrades (B2436.91) (CWIP)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10) (CWIP)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11) (CWIP)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20) (CWIP)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21) (CWIP)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30) (CWIP)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33) (CWIP)
186,728	153,383	43,803	43,803	28,821	28,821	449,659	396,404	668,068	693,479	143,182	143,250	(92,340)	8,981

Estimated Transmission Enhancement Charges (After True-Up) - 2017													
Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60) (CWIP)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70) (CWIP)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81) (CWIP)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83) (CWIP)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84) (CWIP)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85) (CWIP)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90) (CWIP)	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated upgrades (B2436.91) (CWIP)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10) (CWIP)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11) (CWIP)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20) (CWIP)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21) (CWIP)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30) (CWIP)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33) (CWIP)
2,168,472	5,633,543	981,366	981,366	1,256,968	1,256,968	647,554	482,244	798,786	827,400	636,713	636,814	1,599,079	942,989

Public Service Electric and Gas Company
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 Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

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1	New Plant Carrying Charge									
2	Fixed Charge Rate (FCR) if not a CIAC									
3	A	152	Net Plant Carrying Charge without Depreciation		11.03%					
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation		11.71%					
5	C		Line B less Line A		0.68%					
6	FCR if a CIAC									
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes		1.60%					
<p>The FCR resulting from Formula in a given year is used for that year only. Therefore actual revenues collected in a year do not change based on cost data for subsequent years. Per FERC Order dated December 30, 2011 in Docket No. ER12-26, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis-point transmission ROE as authorized by FERC to become effective January 1, 2012. For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects, Line 17 is the 12 month average balance from Attach 4a, and Line 19 will be number of months to be amortized in year plus one.</p>										
10	Details	Branchburg (B0130)		Kittatiny (B0134)		Essex Aldene (B0145)		New Freedom Trans (B0411)		
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes		Yes		Yes		Yes		
12	Useful life of the project	42		42		42		42		
13	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 29, otherwise "No"	No		No		No		No		
14	Input the allowed increase in ROE	0		0		0		0		
15	11.68% ROE	11.03%		11.03%		11.03%		11.03%		
16	FCR for This Project	11.03%		11.03%		11.03%		11.03%		
17	Investment	20,680,597		8,069,022		86,565,629		22,188,863		
18	Annual Depreciation or Amort Exp	492,395		192,120		2,061,086		528,306		
19	Months in service for depreciation expense from Year placed in Service (0)	13.00		13.00		13.00		13.00		
20	CWIP	2006		2007		2007		2007		
21	Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
22	W 11.68 % ROE	20,680,597	492,395	4,652,471						
23	W Increased ROE	20,680,597	492,395	4,652,471						
24	W 11.68 % ROE	20,188,202	492,395	4,553,422	8,069,022	80,050	1,703,202	86,565,629	858,786	18,272,191
25	W Increased ROE	20,188,202	492,395	4,553,422	8,069,022	80,050	1,703,202	86,565,629	858,786	18,272,191
26	W 11.68 % ROE	19,695,807	492,395	4,454,372	7,988,972	192,120	1,799,169	85,706,843	2,061,086	19,301,739
27	W Increased ROE	19,695,807	492,395	4,454,372	7,988,972	192,120	1,799,169	85,706,843	2,061,086	19,301,739
28	W 11.68 % ROE	19,203,412	492,395	4,355,324	7,796,853	192,120	1,828,696	83,645,796	2,061,086	19,618,517
29	W Increased ROE	19,203,412	492,395	4,355,324	7,796,853	192,120	1,828,696	83,645,796	2,061,086	19,618,517
30	W 11.68 % ROE	18,711,016	492,395	4,095,968	7,604,733	192,120	1,858,722	81,584,670	2,061,086	17,773,557
31	W Increased ROE	18,711,016	492,395	4,095,968	7,604,733	192,120	1,858,722	81,584,670	2,061,086	17,773,557
32	W 11.68 % ROE	18,218,621	492,395	3,746,858	7,412,613	192,120	1,516,263	79,523,584	2,061,086	16,266,692
33	W Increased ROE	18,218,621	492,395	3,746,858	7,412,613	192,120	1,516,263	79,523,584	2,061,086	16,266,692
34	W 11.68 % ROE	17,726,226	492,395	3,154,416	7,220,494	192,120	1,276,451	77,462,497	2,061,086	13,693,952
35	W Increased ROE	17,726,226	492,395	3,154,416	7,220,494	192,120	1,276,451	77,462,497	2,061,086	13,693,952
36	W 11.68 % ROE	17,233,831	492,395	2,886,756	7,028,374	192,120	1,168,598	75,401,411	2,061,086	12,536,886
37	W Increased ROE	17,233,831	492,395	2,886,756	7,028,374	192,120	1,168,598	75,401,411	2,061,086	12,536,886
38	W 11.68 % ROE	16,741,436	492,395	2,555,172	6,836,255	192,120	1,034,441	73,340,324	2,061,086	11,097,629
39	W Increased ROE	16,741,436	492,395	2,555,172	6,836,255	192,120	1,034,441	73,340,324	2,061,086	11,097,629
40	W 11.68 % ROE	16,249,041	492,395	2,397,208	6,644,135	192,120	970,986	71,279,238	2,061,086	10,416,861
41	W Increased ROE	16,249,041	492,395	2,397,208	6,644,135	192,120	970,986	71,279,238	2,061,086	10,416,861
42	W 11.68 % ROE	15,756,645	492,395	2,316,538	6,452,016	192,120	939,068	69,218,152	2,061,086	10,074,454
43	W Increased ROE	15,756,645	492,395	2,316,538	6,452,016	192,120	939,068	69,218,152	2,061,086	10,074,454
44	W 11.68 % ROE	15,264,250	492,395	2,176,785	6,259,896	192,120	882,891	67,157,065	2,061,086	9,471,773
45	W Increased ROE	15,264,250	492,395	2,176,785	6,259,896	192,120	882,891	67,157,065	2,061,086	9,471,773

Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

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1	New Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if			
	if not a CIAC			
		Formula Line		
3	A	152	Net Plant Carrying Charge without Depreciation	11.03%
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%
5	C		Line B less Line A	0.68%
6	FCR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%

The FCR resulting from Formula in a given year is used for that year only.
 Therefore actual revenues collected in a year do not change based on cost data for subsequent years.
 Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
 For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects. Line 17 is the 13 month average balance from Attach 4a, and Line 18 will be number of months to be amortized in year plus one.

10	Details	New Freedom Loop (R0458)			Metuchen Transformer (R0161)			Branchburg-Flattown-Somerville (R0169)			Flattown-Somerville-Bridgewater (R0170)			
		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
11	*Yes* if a project under PJM OATT Schedule 12, otherwise *No*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
12	Useful life of the project	42	42	42	42	42	42	42	42	42	42	42		
13	*Yes* if the customer has paid a lumpsum payment in the amount of the investment on line 29. Otherwise *No*	No	No	No	No	No	No	No	No	No	No	No		
14	Input the allowed increase in ROE	0	0	0	0	0	0	0	0	0	0	0		
15	From line 3 above if *No* on line 13 and From line 7 above if *Yes* on line 13	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%		
16	Line 14 plus (line 5 times line 15)/100	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%		
17	Service Account 101 or 106 if not yet classified - End of year balance	27,005,248	25,799,055	15,731,554	6,961,495									
18	Line 17 divided by line 12	642,982	614,263	374,561	165,750									
19	Months in service for depreciation expense from Year placed in Service (if CWIP)	13.00	13.00	13.00	13.00									
20		2008	2009	2009	2008									
21		Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
22	W 11.68 % ROE	2006												
23	W Increased ROE	2006												
24	W 11.68 % ROE	2007												
25	W Increased ROE	2007	24,921,237	88,646	837,584							6,961,495	25,372	239,734
26	W 11.68 % ROE	2008	24,921,237	88,646	837,584							6,961,495	25,372	239,734
27	W Increased ROE	2008	24,921,237	88,646	837,584							6,961,495	25,372	239,734
28	W 11.68 % ROE	2009	26,916,602	642,982	6,292,837	19,700,217	288,478	2,831,673	15,773,880	234,561	2,302,423	6,936,122	165,750	1,621,657
29	W Increased ROE	2009	26,916,602	642,982	6,292,837	19,700,217	288,478	2,831,673	15,773,880	234,561	2,302,423	6,936,122	165,750	1,621,657
30	W 11.68 % ROE	2010	26,273,620	642,982	5,703,044	25,468,527	613,738	5,522,598	15,539,319	375,568	3,368,301	6,770,372	165,750	1,469,662
31	W Increased ROE	2010	26,273,620	642,982	5,703,044	25,468,527	613,738	5,522,598	15,539,319	375,568	3,368,301	6,770,372	165,750	1,469,662
32	W 11.68 % ROE	2011	25,630,832	642,987	5,221,521	24,896,838	614,263	5,061,682	15,121,425	374,561	3,075,759	6,604,623	165,750	1,345,559
33	W Increased ROE	2011	25,630,832	642,987	5,221,521	24,896,838	614,263	5,061,682	15,121,425	374,561	3,075,759	6,604,623	165,750	1,345,559
34	W 11.68 % ROE	2012	24,987,652	642,982	4,395,482	24,282,576	614,263	4,260,879	14,746,864	374,561	2,589,159	6,438,873	165,750	1,132,702
35	W Increased ROE	2012	24,987,652	642,982	4,395,482	24,282,576	614,263	4,260,879	14,746,864	374,561	2,589,159	6,438,873	165,750	1,132,702
36	W 11.68 % ROE	2013	24,344,669	642,982	4,025,278	23,668,312	614,263	3,902,590	14,372,303	374,561	2,371,359	6,273,123	165,750	1,037,298
37	W Increased ROE	2013	24,344,669	642,982	4,025,278	23,668,312	614,263	3,902,590	14,372,303	374,561	2,371,359	6,273,123	165,750	1,037,298
38	W 11.68 % ROE	2014	23,701,687	642,982	3,563,358	23,054,049	614,263	3,454,841	13,997,743	374,561	2,099,276	6,107,373	165,750	918,263
39	W Increased ROE	2014	23,701,687	642,982	3,563,358	23,054,049	614,263	3,454,841	13,997,743	374,561	2,099,276	6,107,373	165,750	918,263
40	W 11.68 % ROE	2015	23,058,705	642,982	3,346,067	22,439,786	614,263	3,244,794	13,623,182	374,561	1,971,555	5,941,623	165,750	862,264
41	W Increased ROE	2015	23,058,705	642,982	3,346,067	22,439,786	614,263	3,244,794	13,623,182	374,561	1,971,555	5,941,623	165,750	862,264
42	W 11.68 % ROE	2016	22,415,723	642,982	3,238,044	21,825,523	614,263	3,140,998	13,248,621	374,561	1,908,350	5,775,874	165,750	834,421
43	W Increased ROE	2016	22,415,723	642,982	3,238,044	21,825,523	614,263	3,140,998	13,248,621	374,561	1,908,350	5,775,874	165,750	834,421
44	W 11.68 % ROE	2017	21,772,741	642,982	3,045,575	21,211,259	614,263	2,954,897	12,874,060	374,561	1,795,196	5,610,124	165,750	784,820
45	W Increased ROE	2017	21,772,741	642,982	3,045,575	21,211,259	614,263	2,954,897	12,874,060	374,561	1,795,196	5,610,124	165,750	784,820

Public Service Electric and Gas Company
Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

1	New Plant Carrying Charge				Page 3 of 19
2	Fixed Charge Rate (FCR) if not a CIAC				
3	A	152	Net Plant Carrying Charge without Depreciation	11.03%	
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%	
	C		Line B less Line A	0.68%	
6	FCR if a CIAC				
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%	

The FCR resulting from Formula in a given year is used for that year only.
Therefore actual revenues collected in a year do not change based on cost data for subsequent years.
Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis-point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects, Line 17 is the 13 month average balance from Attach 4a, and Line 19 will be number of months to be amortized in year plus one.

10	Details	Roseland Transformers (R0274)			Wave Train Branches (R0172)			Reconductor Hudson - South Walston (R013)			Reconductor South Mahwah J-3410 Circuit (R1417)		
		2009	2008	2011	2009	2008	2010	2009	2008	2010	2009	2008	2011
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12	Useful life of the project	42	42	42	42	42	42	42	42	42	42	42	42
13	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 29, Otherwise "No"	No	No	No	No	No	No	No	No	No	No	No	No
14	Input the allowed increase in ROE	0	0	0	0	0	0	0	0	0	0	0	0
15	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%
16	Line 14 plus (line 5 times line 15)/100	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%
17	Service Account 101 or 106 if not yet classified - End of year balance	21,073,706	27,988	9,158,918	27,988	666	218,069	20,628,991	491,119	13,000	20,628,991	491,119	13,000
18	Line 17 divided by line 12	501,755	666	218,069	666	3,388	1,187,289	491,119	1,187,289	1,187,289	1,187,289	1,187,289	1,187,289
19	Months in service for depreciation expense from Year placed in Service (if CWIP)	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
20		2009	2008	2010	2009	2008	2010	2009	2008	2010	2009	2008	2011
21	Invest Yr	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006
22	W 11.68 % ROE	21,092,458	268,347	2,634,066	35,792	866	8,379	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
23	W Increased ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
24	W 11.68 % ROE	21,092,458	268,347	2,634,066	35,792	866	8,379	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
25	W Increased ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
26	W 11.68 % ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
27	W Increased ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
28	W 11.68 % ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
29	W Increased ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
30	W 11.68 % ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
31	W Increased ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
32	W 11.68 % ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
33	W Increased ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
34	W 11.68 % ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
35	W Increased ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
36	W 11.68 % ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
37	W Increased ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
38	W 11.68 % ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
39	W Increased ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
40	W 11.68 % ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
41	W Increased ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
42	W 11.68 % ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
43	W Increased ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
44	W 11.68 % ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793
45	W Increased ROE	20,797,967	501,579	4,507,079	27,122	666	5,890	20,628,991	300,198	2,435,793	20,628,991	300,198	2,435,793

Public Service Electric and Gas Company
ATTACHMENT 4-10A
Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

Page 5 of 19

1	New Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if not a CIAC			
3	A	152	Net Plant Carrying Charge without Depreciation	11.03%
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%
5	C		Line B less Line A	0.68%
6	FCR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%

The FCR resulting from Formula in a given year is used for that year only.
Therefore, actual revenues collected in a year do not change based on cost data for subsequent years.
Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis-point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects. Line 17 is the 13 month average balance from Attach 4a, and Line 19 will be number of months to be amortized in year plus one.

	Details	Tommy/Bk Breaker Reconnector (B0261)			New Essex-Kearny 138 kV circuit and Kearny 138 kV bus tie (B014)			Salem 500 kV breakers (B1410-B1415)			230kV Lawrence Switching Station Upgrade (B1228)			
		Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"													
11	Useful life of the asset	42			42									
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 20, otherwise "No"													
13	Input the allowed increase in ROE	0			0			0			0			
14	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13	11.03%			11.03%			11.03%			11.03%			
15	Line 14 plus (line 5 times line 15)/100	11.03%			11.03%			11.03%			11.03%			
16	Service Account 101 or 106 if not yet classified - End of year balance	6,390,403			46,073,245			15,676,913			22,040,646			
17	Investment													
18	Annual Depreciation or Amort Exp	152,152			1,096,982			378,022			524,777			
19	Months in service for depreciation expense from Year placed in Service (0 if CWP)	13.00			13.00			13.00			13.00			
20		2012			2012			2011			2013			
21		Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
22	W 11.68 % ROE	2006												
23	W Increased ROE	2006							2,640,253	9,537	73,000			
24	W 11.68 % ROE	2007							2,640,253	9,537	73,000			
25	W Increased ROE	2007							7,275,941	108,279	790,336			
26	W 11.68 % ROE	2008							7,275,941	108,279	790,336			
27	W Increased ROE	2008							7,275,941	108,279	790,336			
28	W 11.68 % ROE	2009							7,275,941	108,279	790,336			
29	W Increased ROE	2009							7,275,941	108,279	790,336			
30	W 11.68 % ROE	2010							7,275,941	108,279	790,336			
31	W Increased ROE	2010							7,275,941	108,279	790,336			
32	W 11.68 % ROE	2011							7,275,941	108,279	790,336			
33	W Increased ROE	2011							7,275,941	108,279	790,336			
34	W 11.68 % ROE	2012	4,404,012	57,853	422,751	22,800,866	123,008	898,857	7,275,941	108,279	790,336			
35	W Increased ROE	2012	4,404,012	57,853	422,751	22,800,866	123,008	898,857	7,275,941	108,279	790,336			
36	W 11.68 % ROE	2013	6,291,725	151,180	1,025,313	45,385,800	1,083,543	7,389,162	9,926,683	192,972	1,305,797	22,127,065	248,542	1,698,840
37	W Increased ROE	2013	6,291,725	151,180	1,025,313	45,385,800	1,083,543	7,389,162	9,926,683	192,972	1,305,797	22,127,065	248,542	1,698,840
38	W 11.68 % ROE	2014	6,181,332	152,152	913,777	44,747,660	1,094,148	6,607,679	15,445,872	289,093	1,755,636	21,792,104	524,777	3,209,866
39	W Increased ROE	2014	6,181,332	152,152	913,777	44,747,660	1,094,148	6,607,679	15,445,872	289,093	1,755,636	21,792,104	524,777	3,209,866
40	W 11.68 % ROE	2015	6,029,218	152,152	858,935	43,772,546	1,096,982	6,228,271	15,276,916	378,019	2,168,874	21,267,327	524,777	3,017,865
41	W Increased ROE	2015	6,029,218	152,152	858,935	43,772,546	1,096,982	6,228,271	15,276,916	378,019	2,168,874	21,267,327	524,777	3,017,865
42	W 11.68 % ROE	2016	5,878,038	152,152	832,651	42,680,131	1,096,983	6,038,051	15,330,967	388,479	2,163,341	20,742,550	524,777	2,926,137
43	W Increased ROE	2016	5,878,038	152,152	832,651	42,680,131	1,096,983	6,038,051	15,330,967	388,479	2,163,341	20,742,550	524,777	2,926,137
44	W 11.68 % ROE	2017	5,724,913	152,152	783,889	41,578,581	1,096,982	5,685,123	14,510,533	378,022	1,979,240	20,217,772	524,777	2,755,781
45	W Increased ROE	2017	5,724,913	152,152	783,889	41,578,581	1,096,982	5,685,123	14,510,533	378,022	1,979,240	20,217,772	524,777	2,755,781

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1	Net Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if not a CIAC	Formula Line		
3	A	152	Net Plant Carrying Charge without Depreciation	11.03%
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%
5	C		Line B less Line A	0.68%
6	FCR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%

The FCR resulting from Formula in a given year is used for that year only.
 Therefore actual revenues collected in a year do not change based on cost data for subsequent years.
 Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
 For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects, Line 17 is the 13 month average balance from Attach 6a, and Line 19 will be number of months to be amortized in year plus one.

	Details		Branchburg-Middlesex Switch Rack (B1155)			Aldene-Springfield Rd. Conversion (B1999)			Upgrade Camden-Richmond 230KV Circuit (B1990)			Susquehanna Roostand Reaters (B0484 & B0489-15)		
			Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Schedule 12 (Yes or No)	Yes	42		Yes	42		Yes	42		Yes	42	
11	Useful life of the project	Line	42			42			42			42		
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 29, Otherwise "No"	CIAC (Yes or No)	No			No			No			No		
13	Input the allowed increase in ROE	Increased ROE (Basis Points)	0			0			0			125		
14	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13	11.68% ROE	11.03%			11.03%			11.03%			11.03%		
15	Line 14 plus (line 5 times line 15)/100	FCR for This Project	11.03%			11.03%			11.03%			11.88%		
16	Service Account 101 or 106 if not yet classified - End of year balance	Investment	68,312,808			72,443,911			11,268,594			5,857,687		
17	Line 17 divided by line 12	Annual Depreciation or Amort Exp	1,626,495			1,724,855			268,300			139,469		
18	Months in service for depreciation expense from Year placed in Service (0 if C/WP)		13.00			13.00			13.00			13.00		
19			2013			2014			2014			2010		
20														
21	W 11.68 % ROE	Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
22	W Increased ROE	2006												
23	W 11.68 % ROE	2007												
24	W Increased ROE	2007												
25	W 11.68 % ROE	2008												
26	W Increased ROE	2008												
27	W 11.68 % ROE	2009												
28	W Increased ROE	2009												
29	W 11.68 % ROE	2010										2,662,585	7,802	70,915
30	W Increased ROE	2010										2,662,585	7,802	70,915
31	W 11.68 % ROE	2011										5,849,885	116,061	966,188
32	W Increased ROE	2011										5,849,885	116,061	1,014,845
33	W 11.68 % ROE	2012										5,733,823	139,469	1,000,541
34	W Increased ROE	2012										5,733,823	139,469	1,051,531
35	W 11.68 % ROE	2013	20,876,286	101,812	695,908				5,594,354			5,594,354	139,469	916,713
36	W Increased ROE	2013	20,876,286	101,812	695,908				5,594,354			5,594,354	139,469	967,047
37	W 11.68 % ROE	2014	60,374,269	1,439,907	8,878,852	68,405,611	556,909	3,438,903	7,389,782	37,992	234,599	5,454,886	139,469	811,586
38	W Increased ROE	2014	60,374,269	1,439,907	8,878,852	68,405,611	556,909	3,438,903	7,389,782	37,992	234,599	5,454,886	139,469	859,361
39	W 11.68 % ROE	2015	61,346,085	1,497,329	9,098,697	71,213,315	1,708,815	10,056,881	11,126,578	265,823	1,570,150	5,315,417	139,469	762,575
40	W Increased ROE	2015	61,346,085	1,497,329	9,098,697	71,213,315	1,708,815	10,056,881	11,126,578	265,823	1,570,150	5,315,417	139,469	808,174
41	W 11.68 % ROE	2016	65,809,557	1,625,244	9,243,999	70,208,024	1,703,925	9,831,890	10,863,757	259,565	1,517,260	5,175,948	139,469	738,687
42	W Increased ROE	2016	65,809,557	1,625,244	9,243,999	70,208,024	1,703,925	9,831,890	10,863,757	259,565	1,517,260	5,175,948	139,469	783,397
43	W 11.68 % ROE	2017	63,648,517	1,626,495	8,650,024	68,474,262	1,724,855	9,280,898	10,705,213	268,300	1,448,606	5,036,479	139,469	695,238
44	W Increased ROE	2017	63,648,517	1,626,495	8,650,024	68,474,262	1,724,855	9,280,898	10,705,213	268,300	1,448,606	5,036,479	139,469	737,976

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1	New Plant Carrying Charge										
2	Fixed Charge Rate (FCR) if not a CIAC										
3	Formula Line										
4	A	152	Net Plant Carrying Charge without Depreciation				11.03%				
5	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation				11.71%				
6	C		Line B less Line A				0.68%				
7	FCR if a CIAC										
8	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes				1.60%				
<p>The FCR resulting from Formula in a given year is used for that year only. Therefore actual revenues collected in a year do not change based on cost data for subsequent years. Per FEREC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis point transmission ROE adder as authorized by FEREC to become effective January 1, 2012. For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects. Line 17 is the 13 month average balance from Attach 4a, and Line 19 will be number of months to be amortized in year plus one.</p>											
10	Details	North Central Reliability (West Orange Conversion (B1154))		Northeast Grid Reliability Project (B1304-1-B1304-4)		Northeast Grid Reliability Project (B1304-5-B1304-21)		Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436-10)			
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Schedule 12 (Yes or No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
12	Useful life of the project	Life	42	42	42	42	42	42	42		
13	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 29. Otherwise "No"	CIAC (Yes or No)	No	No	No	No	No	No	No		
14	Input the allowed increase in ROE	Increased ROE (Basis Points)	0	25	25	25	25	0	0		
15	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13	11.68% ROE	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%		
16	Line 14 plus (line 5 times line 15)/100	FCR for This Project	11.03%	11.20%	11.20%	11.20%	11.20%	11.03%	11.03%		
17	Service Account 101 or 106 if not yet classified - End of year balance	Investment	370,184,658	625,991,050	625,991,050	625,991,050	351,791,077	175,766,398	175,766,398		
18	Line 17 divided by line 12	Annual Depreciation or Amort Exp	8,813,920	14,904,549	14,904,549	14,904,549	8,375,978	4,184,914	4,184,914		
19	Months in service for depreciation expense from Year placed in Service (0 if CWIP)		13.00	13.00	13.00	13.00	13.00	12.98	12.98		
20			2012	2013	2016	2016	2016	2016	2016		
21		Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
22	W 11.68 % ROE	2006									
23	W Increased ROE	2006									
24	W 11.68 % ROE	2007									
25	W Increased ROE	2007									
26	W 11.68 % ROE	2008									
27	W Increased ROE	2008									
28	W 11.68 % ROE	2009									
29	W Increased ROE	2009									
30	W 11.68 % ROE	2010									
31	W Increased ROE	2010									
32	W 11.68 % ROE	2011									
33	W Increased ROE	2011									
34	W 11.68 % ROE	2012	16,441,748	30,113	220,046						
35	W Increased ROE	2012	16,441,748	30,113	220,046						
36	W 11.68 % ROE	2013	257,640,264	6,135,009	41,929,935	23,466,022	86,647	592,253			
37	W Increased ROE	2013	257,640,264	6,135,009	41,929,935	23,466,022	86,647	598,801			
38	W 11.68 % ROE	2014	360,673,484	7,742,354	47,135,528	274,113,325	2,382,627	14,708,781			
39	W Increased ROE	2014	360,673,484	7,742,354	47,135,528	274,113,325	2,382,627	14,884,013			
40	W 11.68 % ROE	2015	355,885,266	8,777,921	50,370,637	433,597,024	7,852,675	46,296,391			
41	W Increased ROE	2015	355,885,266	8,777,921	50,370,637	433,597,024	7,852,675	46,859,063			
42	W 11.68 % ROE	2016	345,570,065	8,768,102	48,774,658	828,555,066	17,720,856	102,541,677	153,948,340	1,985,885	11,640,166
43	W Increased ROE	2016	345,570,065	8,768,102	48,774,658	828,555,066	17,720,856	103,807,445	153,948,340	1,985,885	11,640,166
44	W 11.68 % ROE	2017	338,731,158	8,813,920	46,192,451	597,948,245	14,904,549	80,897,539	173,780,513	4,177,297	23,318,838
45	W Increased ROE	2017	338,731,158	8,813,920	46,192,451	597,948,245	14,904,549	81,902,152	351,791,077	8,375,978	47,195,653
									351,791,077	8,375,978	47,195,653
									173,780,513	4,177,297	23,318,838

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 Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

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1	New Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if not a CIAC	Formula Line		
3	A	152	Net Plant Carrying Charge without Depreciation	11.03%
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%
5	C		Line B less Line A	0.68%
6	FCR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%

The FCR resulting from Formula in a given year is used for that year only.
 Therefore actual revenues collected in a year do not change based on cost data for subsequent years.
 Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis-point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
 For abandoned plant lines 12, 14, 15, and 19 will be from Attachment 5 - Abandoned Transmission Projects. Line 17 is the 13 month average balance from Attach 6a, and Line 19 will be number of months to be amortized in year plus one.

	Details	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21)			Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22)			Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.43)			Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60)			
		Yes	No	ROE	Yes	No	ROE	Yes	No	ROE	Yes	No	ROE	
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes	No	11.03%	Yes	No	11.03%	Yes	No	11.03%	Yes	No	11.03%	
11	Useful life of the project	42			42			42			42			
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 23. Otherwise "No"	Yes	No	11.03%	Yes	No	11.03%	Yes	No	11.03%	Yes	No	11.03%	
13	Input the allowed increase in ROE	0			0			0			0			
14	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13	11.03%			11.03%			11.03%			11.03%			
15	Line 14 plus (line 5 times line 15)/100	11.03%			11.03%			11.03%			11.03%			
16	Service Account 101 or 106 if not yet classified - End of year balance	24,373,985			24,373,985			15,071,438			48,229,438			
17	Investment	580,333			580,333			358,844			1,148,320			
18	Line 17 divided by line 12	12.83			12.83			7.01			2.94			
19	Months in service for depreciation expense from Year placed in Service (if CWIP)	2016			2016			2015			2015			
20														
21		Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
22	W 11.68 % ROE	2006												
23	W Increased ROE	2006												
24	W 11.68 % ROE	2007												
25	W Increased ROE	2007												
26	W 11.68 % ROE	2008												
27	W Increased ROE	2008												
28	W 11.68 % ROE	2009												
29	W Increased ROE	2009												
30	W 11.68 % ROE	2010												
31	W Increased ROE	2010												
32	W 11.68 % ROE	2011												
33	W Increased ROE	2011												
34	W 11.68 % ROE	2012												
35	W Increased ROE	2012												
36	W 11.68 % ROE	2013												
37	W Increased ROE	2013												
38	W 11.68 % ROE	2014												
39	W Increased ROE	2014												
40	W 11.68 % ROE	2015							225,037	412	2,441	225,037	412	2,441
41	W Increased ROE	2015							225,037	412	2,441	225,037	412	2,441
42	W 11.68 % ROE	2016	19,694,890	252,499	1,480,230	19,694,890	252,499	1,480,230						
43	W Increased ROE	2016	19,694,890	252,499	1,480,230	19,694,890	252,499	1,480,230						
44	W 11.68 % ROE	2017	24,121,486	572,715	3,199,550	24,121,486	572,715	3,199,550	15,071,025	193,511	1,090,341	48,229,026	259,831	1,464,046
45	W Increased ROE	2017	24,121,486	572,715	3,199,550	24,121,486	572,715	3,199,550	15,071,025	193,511	1,090,341	48,229,026	259,831	1,464,046

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1	New Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if not a CIAC			
		Formula Line		
3	A	152	Net Plant Carrying Charge without Depreciation	11.03%
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%
5	C		Line B less Line A	0.68%
6	FCR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%

The FCR resulting from Formula in a given year is used for that year only.
 Therefore actual revenues collected in a year do not change based on cost data for subsequent years.
 Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
 For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects. Line 17 is the 13 month average balance from Attach. 4a, and Line 19 will be number of months to be amortized in year plus one.

	Details	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70)			Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81)			Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83)			Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84)			
		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Schedule 12 (Yes or No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
11	Useful life of the project	Line	42	42	42	42	42	42	42	42	42	42		
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 29. Otherwise "No"	CIAC (Yes or No)	No	No	No	No	No	No	No	No	No	No		
13	Input the allowed increase in ROE	Increased ROE (Basis Points)	0	0	0	0	0	0	0	0	0	0		
14	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13	11.68% ROE	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%		
15	Line 14 plus (line 5 times line 15)/100	FCR for This Project	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%		
16	Service Account 101 or 106 if not yet classified - End of year balance	Investment	15,071,438	24,740,752	24,740,752	24,740,752	24,740,752	24,740,752	24,740,752	24,740,752	24,740,752	24,740,752		
17	Line 17 divided by line 12	Annual Depreciation or Amort Exp	358,844	589,066	589,066	589,066	589,066	589,066	589,066	589,066	589,066	589,066		
18	Months in service for depreciation expense from Year placed in Service (0 if CWP)		7.01	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48		
19			2015	2015	2015	2015	2015	2015	2015	2015	2015	2015		
20			2015	2015	2015	2015	2015	2015	2015	2015	2015	2015		
21		Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
22	W 11.68 % ROE	2006												
23	W Increased ROE	2006												
24	W 11.68 % ROE	2007												
25	W Increased ROE	2007												
26	W 11.68 % ROE	2008												
27	W Increased ROE	2008												
28	W 11.68 % ROE	2009												
29	W Increased ROE	2009												
30	W 11.68 % ROE	2010												
31	W Increased ROE	2010												
32	W 11.68 % ROE	2011												
33	W Increased ROE	2011												
34	W 11.68 % ROE	2012												
35	W Increased ROE	2012												
36	W 11.68 % ROE	2013												
37	W Increased ROE	2013												
38	W 11.68 % ROE	2014												
39	W Increased ROE	2014												
40	W 11.68 % ROE	2015	225,037	412	2,441	225,037	412	2,441	225,037	412	2,441	225,037	412	2,441
41	W Increased ROE	2015	225,037	412	2,441	225,037	412	2,441	225,037	412	2,441	225,037	412	2,441
42	W 11.68 % ROE	2016												
43	W Increased ROE	2016												
44	W 11.68 % ROE	2017	15,071,025	193,511	1,090,341	24,740,340	338,724	1,908,566	24,740,340	338,724	1,908,566	24,740,340	338,724	1,908,566
45	W Increased ROE	2017	15,071,025	193,511	1,090,341	24,740,340	338,724	1,908,566	24,740,340	338,724	1,908,566	24,740,340	338,724	1,908,566

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

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1	New Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if			
	if not a CIAC			
	Formula Line			
3	A	152	Net Plant Carrying Charge without Depreciation	11.03%
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%
5	C		Line B less Line A	0.68%
6	FCR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%

The FCR resulting from Formula in a given year is used for that year only.
Therefore, actual revenues collected in a year do not change based on cost data for subsequent years.
Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis-point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5: Abandoned Transmission Projects. Line 17 is the 13 month average balance from Attach 4a, and Line 19 will be number of months to be amortized in year plus one.

	Details	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85)			Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90)			Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated upgrades (B2436.91)			New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10)			
		Yes	Yes	Yes	Yes	Yes	Yes	Yes						
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	(Yes or No)	Yes	Yes	Yes	Yes	Yes							
11	Useful life of the asset	Life	42	42	42	42	42							
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 20, otherwise "No"	CIAC	(Yes or No)	No	No	No	No							
13	Input the allowed increase in ROE	Increased ROE (Basis Points)	0	0	0	0	0							
14	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13	11.68% ROE	11.03%	11.03%	11.03%	11.03%	11.03%							
15	Line 14 plus (line 5 times line 15)/100	FCR for This Project	11.03%	11.03%	11.03%	11.03%	11.03%							
16	Service Account 101 or 106 if not yet classified - End of year balance	Investment	36,210,096	28,256,534	-	25,651,961	-							
17	Line 17 divided by line 12	Annual Depreciation or Amort Exp	862,145	696,584	-	610,761	-							
18	Months in service for depreciation expense from Year placed in Service (0 if CWP)		7.32	12.86	7.01	13.00								
19			2015	2016	2016	2016								
20			Ending	Amortization	Revenue	Ending	Amortization	Revenue	Ending	Amortization	Revenue	Ending	Amortization	Revenue
21	W 11.68 % ROE	Invest Yr												
22	W Increased ROE	2006												
23	W 11.68 % ROE	2007												
24	W Increased ROE	2007												
25	W 11.68 % ROE	2008												
26	W Increased ROE	2008												
27	W 11.68 % ROE	2009												
28	W Increased ROE	2009												
29	W 11.68 % ROE	2010												
30	W Increased ROE	2010												
31	W 11.68 % ROE	2011												
32	W Increased ROE	2011												
33	W 11.68 % ROE	2012												
34	W Increased ROE	2012												
35	W 11.68 % ROE	2013												
36	W Increased ROE	2013												
37	W 11.68 % ROE	2014												
38	W Increased ROE	2014												
39	W 11.68 % ROE	2015	225,037	412	2,441									
40	W Increased ROE	2015	225,037	412	2,441									
41	W 11.68 % ROE	2016				27,239,122	349,220	2,047,240	19,694,915	252,499	1,480,232	25,264,003	323,897	1,898,794
42	W Increased ROE	2016				27,239,122	349,220	2,047,240	19,694,915	252,499	1,480,232	25,264,003	323,897	1,898,794
43	W 11.68 % ROE	2017	36,209,684	485,767	2,737,100	28,907,314	688,967	3,843,966				25,328,064	610,761	3,405,679
44	W Increased ROE	2017	36,209,684	485,767	2,737,100	28,907,314	688,967	3,843,966				25,328,064	610,761	3,405,679

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

1	New Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if not a CIAC			
	Formula Line			
3	A	152	Net Plant Carrying Charge without Depreciation	11.03%
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%
5	C		Line B less Line A	0.68%
6	FCR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%

The FCR resulting from Formula in a given year is used for that year only.
Therefore actual revenues collected in a year do not change based on cost data for subsequent years.
Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis-point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects, Line 17 is the 13 month average balance from Attach 6a, and Line 19 will be number of months to be amortized in year plus one.

	Details		New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11)			New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20)			New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21)			New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30)		
			Yes/No	Yes	Revenue	Yes	Revenue	Yes	Revenue	Yes	Revenue			
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Schedule 12 (Yes or No)	Yes			Yes			Yes		Yes			
11	Useful life of the project	Life	42			42			42		42			
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 25, otherwise "No"	CIAC (Yes or No)	No			No			No		No			
13	Input the allowed increase in ROE	Increased ROE (Basis Points)	0			0			0		0			
14	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13	11.68% ROE	11.03%			11.03%			11.03%		11.03%			
15	Line 14 plus (line 5 times line 15)/100	FCR for This Project	11.03%			11.03%			11.03%		11.03%			
16	Service Account 101 or 106 if not yet classified - End of year balance	Investment	25,661,961			15,071,438			15,071,438		58,015,888			
17	Line 17 divided by line 12	Annual Depreciation or Amort Exp	610,761			358,844			358,844		1,381,331			
18	Months in service for depreciation expense from Year placed in Service (0 if C/WIP)		13.00			7.01			7.01		8.20			
19			2016			2016			2016		2017			
20		Invest Yr	Ending	Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
21	W 11.68 % ROE	2006												
22	W Increased ROE	2006												
23	W 11.68 % ROE	2007												
24	W Increased ROE	2007												
25	W 11.68 % ROE	2008												
26	W Increased ROE	2008												
27	W 11.68 % ROE	2009												
28	W Increased ROE	2009												
29	W 11.68 % ROE	2010												
30	W Increased ROE	2010												
31	W 11.68 % ROE	2011												
32	W Increased ROE	2011												
33	W 11.68 % ROE	2012												
34	W Increased ROE	2012												
35	W 11.68 % ROE	2013												
36	W Increased ROE	2013												
37	W 11.68 % ROE	2014												
38	W Increased ROE	2014												
39	W 11.68 % ROE	2015												
40	W Increased ROE	2015				225,037	412	2,441	225,037	412	2,441	225,037	412	2,441
41	W 11.68 % ROE	2016	25,264,003	323,897	1,898,794	225,037	412	2,441	225,037	412	2,441	225,037	412	2,441
42	W Increased ROE	2016	25,264,003	323,897	1,898,794									
43	W 11.68 % ROE	2017	25,328,064	610,761	3,405,679	15,071,025	193,511	1,090,341	15,071,025	193,511	1,090,341	58,015,888	871,281	4,909,357
44	W Increased ROE	2017	25,328,064	610,761	3,405,679	15,071,025	193,511	1,090,341	15,071,025	193,511	1,090,341	58,015,888	871,281	4,909,357

Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

1	New Plant Carrying Charge		
2	Fixed Charge Rate (FCR) if not a CIAC		
	Formula Line		
3	A 152	Net Plant Carrying Charge without Depreciation	11.03%
4	B 159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%
5	C	Line B less Line A	0.68%
6	FCR if a CIAC		
7	D 153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%

The FCR resulting from Formula in a given year is used for that year only.
 Therefore actual revenues collected in a year do not change based on cost data for subsequent years.
 Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis-point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
 For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects. Line 17 is the 13 month average balance from Attach 6a, and Line 19 will be number of months to be amortized in year plus one.

	Details	Upgrade Eagle Point-Gloucester 230kV Circuit (B1288)			Mickleton-Gloucester 230kV Circuit (B2119)			Rise Road 69kV Breaker Station (B1250)			Cox's Corner-Lumberton 230kV Circuit (B1787)		
		Yes	42	Yes	42	Yes	42	Yes	42				
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes	42	Yes	42	Yes	42	Yes	42				
11	Useful life of the project	42		42		42		42					
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 29, Otherwise "No"	No		No		No		No					
13	Input the allowed increase in ROE	0		0		0		0					
14	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13	11.68%		11.03%		11.03%		11.03%					
15	Line 14 plus (line 5 times line 15)/100	11.03%		11.03%		11.03%		11.03%					
16	Service Account 101 or 106 if not yet classified - End of year balance	12,084,309		19,023,718		35,696,237		31,718,020					
17	Investment	287,722		452,946		849,910		755,191					
18	Line 17 divided by line 12	13.00		13.00		4.09		13.00					
19	Months in service for depreciation expense from Year placed in Service (0 if CWIP)	2015		2015		2015		2015					
20													
21		Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue		
22	W 11.68 % ROE	2006											
23	W Increased ROE	2006											
24	W 11.68 % ROE	2007											
25	W Increased ROE	2007											
26	W 11.68 % ROE	2008											
27	W Increased ROE	2008											
28	W 11.68 % ROE	2009											
29	W Increased ROE	2009											
30	W 11.68 % ROE	2010											
31	W Increased ROE	2010											
32	W 11.68 % ROE	2011											
33	W Increased ROE	2011											
34	W 11.68 % ROE	2012											
35	W Increased ROE	2012											
36	W 11.68 % ROE	2013											
37	W Increased ROE	2013											
38	W 11.68 % ROE	2014											
39	W Increased ROE	2014											
40	W 11.68 % ROE	2015	11,980,348	216,491	1,282,387	18,260,361	232,128	1,375,013	-	-	-		
41	W Increased ROE	2015	11,980,348	216,491	1,282,387	18,260,361	232,128	1,375,013	-	-	-		
42	W 11.68 % ROE	2016	11,830,218	284,623	1,654,204	18,061,375	434,232	2,525,192	33,374,758	483,594	2,807,871		
43	W Increased ROE	2016	11,830,218	284,623	1,654,204	18,061,375	434,232	2,525,192	33,374,758	483,594	2,807,871		
44	W 11.68 % ROE	2017	11,583,195	287,722	1,565,912	18,357,357	452,946	2,478,656	35,212,643	267,164	1,488,600		
45	W Increased ROE	2017	11,583,195	287,722	1,565,912	18,357,357	452,946	2,478,656	35,212,643	267,164	1,488,600		

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 Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

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1	New Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if not a CIAC	Formula Line		
3	A	152	Net Plant Carrying Charge without Depreciation	11.03%
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%
5	C		Line B less Line A	0.68%
6	FCR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%

The FCR resulting from Formula in a given year is used for that year only.
 Therefore actual revenues collected in a year do not change based on cost data for subsequent years.
 Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis-point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
 For abandoned plant lines 12, 14, 15, and 19 will be from Attachment 5 - Abandoned Transmission Projects. Line 17 is the 13 month average balance from Attach 6a, and Line 19 will be number of months to be amortized in year plus one.

	Details		McKeon-Gloosster-Camden Breakers (B1398.15-B1398.19) (CWP)			Burkston - Camden 230kV Conversion (B1156.13-B1156.20) (CWP)			Burlington - Camden 230kV Conversion (B1156.13-B1156.20) (CWP)		
			Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Schedule 12 (Yes or No)	Yes			Yes			Yes		
11	Useful life of the project	Life	42			42			42		
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 23. Otherwise "No"	CIAC (Yes or No)	No			No			No		
13	Input the allowed increase in ROE	Increased ROE (Basis Points)	0			0			0		
14	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13	11.68% ROE	11.03%			11.03%			11.03%		
15	Line 14 plus (line 5 times line 15)/100	FCR for This Project	11.03%			11.03%			11.03%		
16	Service Account 101 or 106 if not yet classified - End of year balance	Investment									
17	Line 17 divided by line 12	Annual Depreciation or Amort Exp									
18	Months in service for depreciation expense from Year placed in Service (if CWIP)										
21		Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
22	W 11.68 % ROE	2006									
23	W Increased ROE	2006									
24	W 11.68 % ROE	2007									
25	W Increased ROE	2007									
26	W 11.68 % ROE	2008									
27	W Increased ROE	2008									
28	W 11.68 % ROE	2009									
29	W Increased ROE	2009									
30	W 11.68 % ROE	2010									
31	W Increased ROE	2010									
32	W 11.68 % ROE	2011	1,648,851		56,106			22,089,378	1,874,440		
33	W Increased ROE	2011	1,648,851		56,106			22,089,378	1,874,440		
34	W 11.68 % ROE	2012	22,706,717		1,587,335	532,375	24,600	128,653,138	10,501,318	9,231,712	791,084
35	W Increased ROE	2012	22,706,717		1,587,335	532,375	24,600	128,653,138	10,501,318	9,231,712	791,084
36	W 11.68 % ROE	2013	117,558,986		7,924,475	532,375	73,965	155,344,760	22,819,788	8,854,018	1,275,855
37	W Increased ROE	2013	117,558,986		7,924,475	532,375	73,965	155,344,760	22,819,788	8,854,018	1,275,855
38	W 11.68 % ROE	2014	160,260,925		16,099,944	532,375	65,596	56,976,438	7,020,285	3,745,932	461,551
39	W Increased ROE	2014	160,260,925		16,099,944	532,375	65,596	56,976,438	7,020,285	3,745,932	461,551
40	W 11.68 % ROE	2015	81,558,947		9,560,846	204,760	24,003	-	-	-	-
41	W Increased ROE	2015	81,558,947		9,560,846	204,760	24,003	-	-	-	-
42	W 11.68 % ROE	2016	-		-	-	-	-	-	-	-
43	W Increased ROE	2016	-		-	-	-	-	-	-	-
44	W 11.68 % ROE	2017	-		-	-	-	-	-	-	-
45	W Increased ROE	2017	-		-	-	-	-	-	-	-

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 Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

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1	New Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if not a CIAC			
	Formula Line			
3	A	152	Net Plant Carrying Charge without Depreciation	11.03%
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%
	C		Line B less Line A	0.68%
6	FCR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%

The FCR resulting from Formula in a given year is used for that year only.
 Therefore actual revenues collected in a year do not change based on cost data for subsequent years.
 Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
 For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects. Line 17 is the 13 month average balance from Attach 4a, and Line 19 will be number of months to be amortized in year plus one.

	Details	Northeast Grid Reliability Project (B1304.1-B1304.4) (CWIP)			Northeast Grid Reliability Project (B1304.5-B1304.21) (CWIP)			Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10) (CWIP)			Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21) (CWIP)						
		Yes (Yes or No)	Life	CIAC (Yes or No)	Increased ROE (Basis Points)	11.68% ROE	FCR for This Project	Investment Annual Depreciation or Amort Exp	Months in service for depreciation expense from Year placed in Service (if CWIP)	Yes (Yes or No)	Life	CIAC (Yes or No)	Increased ROE (Basis Points)	11.68% ROE	FCR for This Project	Investment Annual Depreciation or Amort Exp	Months in service for depreciation expense from Year placed in Service (if CWIP)
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes	42	No	25	11.03%	11.20%	-	19	Yes	42	No	0	11.03%	11.03%	2,271,018	26.96
11	Useful life of the project	42								42							
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 29. Otherwise "No"	No		No						No		No					
13	Input the allowed increase in ROE	25		0						0		0					
14	From line 3 above if "No" on line 10 and From line 7 above if "Yes" on line 10	11.03%		11.03%						11.03%		11.03%					
15	Line 14 plus (line 5 times line 15)/100	11.20%		11.20%						11.03%		11.03%					
16	Service Account 101 or 106 if not yet classified - End of year balance															23,927,668	
17	Line 17 divided by line 12															569,706	11.33
18	Months in service for depreciation expense from Year placed in Service (if CWIP)																
21	W 11.68 % ROE	Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
22	W Increased ROE	2006															
23	W 11.68 % ROE	2006															
24	W Increased ROE	2007															
25	W 11.68 % ROE	2007															
26	W Increased ROE	2008															
27	W 11.68 % ROE	2008															
28	W Increased ROE	2009															
29	W 11.68 % ROE	2009															
30	W Increased ROE	2010															
31	W 11.68 % ROE	2010															
32	W Increased ROE	2011															
33	W 11.68 % ROE	2011															
34	W Increased ROE	2012	81,587,177		6,341,372	5,537,185		457,198									
35	W 11.68 % ROE	2012	81,587,177		6,416,475	5,537,185		462,613									
36	W Increased ROE	2013	184,611,449		18,512,179	18,052,410		1,627,531									
37	W 11.68 % ROE	2013	184,611,449		18,751,945	18,052,410		1,646,610									
38	W Increased ROE	2014	211,553,988		28,743,491	33,293,621		3,699,551	9,496,612	391,383	1,589,541						
39	W 11.68 % ROE	2014	211,553,988		29,152,116	33,293,621		3,752,145	9,496,612	391,383	1,589,541						
40	W Increased ROE	2015	232,789,181		31,313,922	31,157,349		2,302,742	79,833,944	3,818,309	14,281,935						
41	W 11.68 % ROE	2015	232,789,181		31,772,294	31,157,349		2,336,445	79,833,944	3,818,309	14,281,935						
42	W Increased ROE	2016	72,001,234		8,335,564	3,028,455		350,603	5,826,722	3,108,397	19,887,254						
43	W 11.68 % ROE	2016	72,001,234		8,459,954	3,028,455		355,835	5,826,722	3,108,397	19,887,254						
44	W Increased ROE	2017	-		-	-		-	2,271,018	519,803	23,927,668						
45	W 11.68 % ROE	2017	-		-	-		-	2,271,018	519,803	23,927,668						

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1	New Plant Carrying Charge									
2	Fixed Charge Rate (FCR) if not a CIAC									
3		Formula Line								
4	A	152	Net Plant Carrying Charge without Depreciation		11.03%					
5	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation		11.71%					
6	C		Line B less Line A		0.68%					
7	FCR if a CIAC									
8	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes		1.60%					
<p>The FCR resulting from Formula in a given year is used for that year only. Therefore actual revenues collected in a year do not change based on cost data for subsequent years. Per FER Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis point transmission ROE added as authorized by FERC to become effective January 1, 2012. For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects. Line 17 is the 12 month average balance from Attach 4a, and Line 19 will be number of months to be amortized in year plus one.</p>										
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No" Useful life of the project "Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 29. Otherwise "No" Input the allowed increase in ROE From line 3 above if "No" on line 13 and from line 7 above if "Yes" on line 13 Line 14 plus (line 5 times line 15)/100 Service Account 101 or 106 if not yet classified - End of year balance Line 17 divided by line 12 Months in service for depreciation expense from Year placed in Service (if CWIP)		Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22) (CWIP)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33) (CWIP)	Construct a new North Ave - Bayonne 345 kV circuit and any associated substation upgrades (B2436.34) (CWIP)	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades (B2436.50) (CWIP)				
11	Schedule 12	(Yes or No)	Yes	Yes	Yes	Yes				
12	Line		42	42	42	42				
13	CIAC	(Yes or No)	No	No	No	No				
14	Increased ROE (Basis Points)		0	0	0	0				
15	11.68% ROE		11.03%	11.03%	11.03%	11.03%				
16	FCR for This Project		11.03%	11.03%	11.03%	11.03%				
17	Investment		13,263,928	103,139,173	100,004,406	50,261,443				
18	Annual Depreciation or Amort Exp		315,808	2,455,695	2,381,057	1,196,701				
19	Year placed in Service (if CWIP)		9.66	9.66	8.44	10.49				
21		Invest Yr	Depreciation or Amortization		Depreciation or Amortization		Depreciation or Amortization		Depreciation or Amortization	
22	W 11.68 % ROE	2006	Ending	Revenue	Ending	Revenue	Ending	Revenue	Ending	Revenue
23	W Increased ROE	2006								
24	W 11.68 % ROE	2007								
25	W Increased ROE	2007								
26	W 11.68 % ROE	2008								
27	W Increased ROE	2008								
28	W 11.68 % ROE	2009								
29	W Increased ROE	2009								
30	W 11.68 % ROE	2010								
31	W Increased ROE	2010								
32	W 11.68 % ROE	2011								
33	W Increased ROE	2011								
34	W 11.68 % ROE	2012								
35	W Increased ROE	2012								
36	W 11.68 % ROE	2013								
37	W Increased ROE	2013								
38	W 11.68 % ROE	2014	1,531,032	58,653	2,114,342	74,197	1,476,460	58,912	838,906	41,991
39	W Increased ROE	2014	1,531,032	58,653	2,114,342	74,197	1,476,460	58,912	838,906	41,991
40	W 11.68 % ROE	2015	14,081,213	819,896	7,520,100	530,656	1,567,639	105,699	3,286,307	178,025
41	W Increased ROE	2015	14,081,213	819,896	7,520,100	530,656	1,567,639	105,699	3,286,307	178,025
42	W 11.68 % ROE	2016	5,133,133	1,064,877	46,154,190	2,887,183	31,456,933	1,636,015	29,153,435	1,549,513
43	W Increased ROE	2016	5,133,133	1,064,877	46,154,190	2,887,183	31,456,933	1,636,015	29,153,435	1,549,513
44	W 11.68 % ROE	2017	13,263,928	1,087,121	103,139,173	8,457,930	100,004,406	7,165,306	50,261,443	4,476,177
45	W Increased ROE	2017	13,263,928	1,087,121	103,139,173	8,457,930	100,004,406	7,165,306	50,261,443	4,476,177

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 Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

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1	New Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if not a CIAC	Formula Line		
3	A	152	Net Plant Carrying Charge without Depreciation	11.03%
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%
5	C		Line B less Line A	0.68%
6	FCR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%

The FCR resulting from Formula in a given year is used for that year only.
 Therefore actual revenues collected in a year do not change based on cost data for subsequent years.
 Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
 For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5: Abandoned Transmission Projects. Line 17 is the 13 month average balance from Attach 4a, and Line 19 will be number of months to be amortized in year plus one.

	Details	Schedule 12 (Yes or No)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, and any associated substation upgrades (B2436.60) (CWIP)			Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70) (CWIP)			Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81) (CWIP)			Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.81) (CWIP)		
			Yes	No	0	11.03%	11.03%	11.03%	11.03%	Yes	No	0	11.03%	11.03%
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	(Yes or No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11	Useful life of the project	Life	42	42	42	42	42	42	42	42	42	42	42	42
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 20, otherwise "No"	CIAC (Yes or No)	No	No	No	No	No	No	No	No	No	No	No	No
13	Input the allowed increase in ROE	Increased ROE (Basis Points)	0	0	0	0	0	0	0	0	0	0	0	0
14	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13	11.68% ROE	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%
15	Line 14 plus (line 5 times line 15)/100	FCR for This Project	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%
16	Service Account 101 or 106 if not yet classified - End of year balance	Investment	4,257,610	55,639,039	53,134	53,134	53,134	53,134	53,134	53,134	53,134	53,134	53,134	53,134
17	Line 17 divided by line 12	Annual Depreciation or Amort Exp	101,372	1,324,739	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265
18	Months in service for depreciation expense from Year placed in Service (0 if CWIP)		54.84	11.60	2,078.76	2,078.76	2,078.76	2,078.76	2,078.76	2,078.76	2,078.76	2,078.76	2,078.76	2,078.76
19														
20														
21		Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
22	W 11.68 % ROE	2006												
23	W Increased ROE	2006												
24	W 11.68 % ROE	2007												
25	W Increased ROE	2007												
26	W 11.68 % ROE	2008												
27	W Increased ROE	2008												
28	W 11.68 % ROE	2009												
29	W Increased ROE	2009												
30	W 11.68 % ROE	2010												
31	W Increased ROE	2010												
32	W 11.68 % ROE	2011												
33	W Increased ROE	2011												
34	W 11.68 % ROE	2012												
35	W Increased ROE	2012												
36	W 11.68 % ROE	2013												
37	W Increased ROE	2013												
38	W 11.68 % ROE	2014	433,918	21,259	1,370,003	56,093	597,317	24,145	597,317	24,145	597,317	24,145	597,317	24,145
39	W Increased ROE	2014	433,918	21,259	1,370,003	56,093	597,317	24,145	597,317	24,145	597,317	24,145	597,317	24,145
40	W 11.68 % ROE	2015	3,386,828	209,207	7,110,556	414,795	4,018,145	249,912	4,018,145	249,912	4,018,145	249,912	4,018,145	249,912
41	W Increased ROE	2015	3,386,828	209,207	7,110,556	414,795	4,018,145	249,912	4,018,145	249,912	4,018,145	249,912	4,018,145	249,912
42	W 11.68 % ROE	2016	13,451,622	1,007,913	32,115,662	1,793,514	16,422,638	1,119,514	16,422,638	1,119,514	16,422,638	1,119,514	16,422,638	1,119,514
43	W Increased ROE	2016	13,451,622	1,007,913	32,115,662	1,793,514	16,422,638	1,119,514	16,422,638	1,119,514	16,422,638	1,119,514	16,422,638	1,119,514
44	W 11.68 % ROE	2017	4,257,610	1,981,744	55,639,039	5,480,161	53,134	937,564	53,134	937,564	53,134	937,564	53,134	937,564
45	W Increased ROE	2017	4,257,610	1,981,744	55,639,039	5,480,161	53,134	937,564	53,134	937,564	53,134	937,564	53,134	937,564

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 Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

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1	New Plant Carrying Charge		
2	Fixed Charge Rate (FCR) if not a CIAC		
3	Formula Line		
4	A	152	Net Plant Carrying Charge without Depreciation
5	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation
6	C		Line B less Line A
7	FCR if a CIAC		
8	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes

The FCR resulting from Formula in a given year is used for that year only.
 Therefore actual revenues collected in a year do not change based on cost data for subsequent years.
 Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis-point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
 For abandoned plant lines 12, 14, 15, and 19 will be from Attachment 5 - Abandoned Transmission Projects. Line 17 is the 13 month average balance from Attach 6a, and Line 19 will be number of months to be amortized in year plus one.

	Details		Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84) (CWIP)			Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85) (CWIP)			Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90) (CWIP)			Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated substation upgrades (B2436.91) (CWIP)					
			Yes	No	11.68% ROE	Investment	Annual Depreciation or Amort Exp	13.00	Yes	No	11.03%	Investment	Annual Depreciation or Amort Exp	13.00	Yes	No	11.03%
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Schedule 12 (Yes or No)	Yes			Yes			Yes			Yes					
11	Useful life of the project	Life	42			42			42			42					
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 23. Otherwise "No"	CIAC (Yes or No)	No			No			No			No					
13	Input the allowed increase in ROE	Increased ROE (Basis Points)	0			0			0			0					
14	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13	11.68% ROE	11.03%			11.03%			11.03%			11.03%					
15	Line 14 plus (line 5 times line 15)/100	FCR for This Project	11.03%			11.03%			11.03%			11.03%					
16	Service Account 101 or 106 if not yet classified - End of year balance	Investment	11,129,698			11,129,698			2,422,164			777,902					
17	Line 17 divided by line 12	Annual Depreciation or Amort Exp	264,993			264,993			57,671			18,521					
18	Months in service for depreciation expense from Year placed in Service (0 if CWIP)		13.00			13.00			9.63			13.00					
21		Invest Yr		Ending	Depreciation or Amortization	Revenue		Ending	Depreciation or Amortization	Revenue		Ending	Depreciation or Amortization	Revenue			
22	W 11.68 % ROE	2006															
23	W Increased ROE	2006															
24	W 11.68 % ROE	2007															
25	W Increased ROE	2007															
26	W 11.68 % ROE	2008															
27	W Increased ROE	2008															
28	W 11.68 % ROE	2009															
29	W Increased ROE	2009															
30	W 11.68 % ROE	2010															
31	W Increased ROE	2010															
32	W 11.68 % ROE	2011															
33	W Increased ROE	2011															
34	W 11.68 % ROE	2012															
35	W Increased ROE	2012															
36	W 11.68 % ROE	2013															
37	W Increased ROE	2013															
38	W 11.68 % ROE	2014	569,297		24,114		569,297		24,114	1,581,597		63,898	1,286,903	48,434			
39	W Increased ROE	2014	569,297		24,114		569,297		24,114	1,581,597		63,898	1,286,903	48,434			
40	W 11.68 % ROE	2015	3,852,871		236,839		3,852,871		236,839	14,750,089		849,382	13,603,685	780,003			
41	W Increased ROE	2015	3,852,871		236,839		3,852,871		236,839	14,750,089		849,382	13,603,685	780,003			
42	W 11.68 % ROE	2016	17,333,648		1,276,434		17,333,648		1,276,434	906,569		1,081,821	715,475	863,750			
43	W Increased ROE	2016	17,333,648		1,276,434		17,333,648		1,276,434	906,569		1,081,821	715,475	863,750			
44	W 11.68 % ROE	2017	11,129,698		1,228,147		11,129,698		1,228,147	2,422,164		197,896	777,902	85,840			
45	W Increased ROE	2017	11,129,698		1,228,147		11,129,698		1,228,147	2,422,164		197,896	777,902	85,840			

Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

1	New Plant Carrying Charge	1		
2	Fixed Charge Rate (FCR) if not a CIAC			
		Formula Line		
3	A	152	Net Plant Carrying Charge without Depreciation	11.03%
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%
5	C		Line B less Line A	0.68%
6	FCR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%

The FCR resulting from Formula in a given year is used for that year only.
 Therefore actual revenues collected in a year do not change based on cost data for subsequent years.
 Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis-point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
 For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects, Line 17 is the 13 month average balance from Attach 4A, and Line 19 will be number of months to be amortized in year plus one.

	Details		New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10) (CWIP)			New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11) (CWIP)			New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20) (CWIP)			New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21) (CWIP)		
			Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Schedule 12 (Yes or No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
11	Useful life of the project	Life	42	42	42	42	42	42	42	42	42	42	42	
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 29, otherwise "No"	CIAC (Yes or No)	No	No	No	No	No	No	No	No	No	No	No	
13	Input the allowed increase in ROE	Increased ROE (Basis Points)	0	0	0	0	0	0	0	0	0	0	0	
14	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13	11.68% ROE	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	
15	Line 14 plus (line 5 times line 15)/100	FCR for This Project	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	11.03%	
16	Service Account 101 or 106 if not yet classified - End of year balance	Investment	1,212,870	1,241,892	1,241,892	4,472,474	4,472,474	4,472,474	4,472,474	4,472,474	4,472,474	4,472,474	4,472,474	
17	Line 17 divided by line 12	Annual Depreciation or Amort Exp	28,878	29,569	29,569	106,487	106,487	106,487	106,487	106,487	106,487	106,487	106,487	
18	Months in service for depreciation expense from Year placed in Service (if CWIP)		12.70	12.70	12.70	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	
19														
20														
21		Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
22	W 11.68 % ROE	2006												
23	W Increased ROE	2006												
24	W 11.68 % ROE	2007												
25	W Increased ROE	2007												
26	W 11.68 % ROE	2008												
27	W Increased ROE	2008												
28	W 11.68 % ROE	2009												
29	W Increased ROE	2009												
30	W 11.68 % ROE	2010												
31	W Increased ROE	2010												
32	W 11.68 % ROE	2011												
33	W Increased ROE	2011												
34	W 11.68 % ROE	2012												
35	W Increased ROE	2012												
36	W 11.68 % ROE	2013												
37	W Increased ROE	2013												
38	W 11.68 % ROE	2014	4,799,334		220,160	5,002,105		223,171	123,509		4,946	124,051		4,952
39	W Increased ROE	2014	4,799,334		220,160	5,002,105		223,171	123,509		4,946	124,051		4,952
40	W 11.68 % ROE	2015	20,855,739		1,506,352	21,058,511		1,530,122	2,601,853		148,281	2,602,395		148,345
41	W Increased ROE	2015	20,855,739		1,506,352	21,058,511		1,530,122	2,601,853		148,281	2,602,395		148,345
42	W 11.68 % ROE	2016	2,285,677		1,326,708	2,524,127		1,323,679	7,543,949		639,295	7,544,669		639,379
43	W Increased ROE	2016	2,285,677		1,326,708	2,524,127		1,323,679	7,543,949		639,295	7,544,669		639,379
44	W 11.68 % ROE	2017	1,212,870		130,718	1,241,892		133,921	4,472,474		493,532	4,472,773		493,565
45	W Increased ROE	2017	1,212,870		130,718	1,241,892		133,921	4,472,474		493,532	4,472,773		493,565

Public Service Electric and Gas Company
 ATTACHMENT II-10A
 Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2017

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1	New Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if not a CIAC			
3	A	152	Net Plant Carrying Charge without Depreciation	11.03%
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	11.71%
5	C		Line B less Line A	0.68%
6	FCR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.60%

The FCR resulting from Formula in a given year is used for that year only.
 Therefore actual revenues collected in a year do not change based on cost data for subsequent years.
 Per FERC Order dated December 30, 2011 in Docket No. ER12-296, the ROE for the Northeast Grid Reliability Project is 11.93%, which includes a 25 basis point transmission ROE adder as authorized by FERC to become effective January 1, 2012.
 For abandoned plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects. Line 17 is the 12 month average balance from Attach 4a, and Line 19 will be number of months to be amortized in year plus one.

	Details	Schedule 12 (Yes or No)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437-30) (CWIP)			New Bayonne 345/230 kV transformer and any associated substation upgrades (B2437-33) (CWIP)			Total	Incentive Charged	Revenue Credit
			Line	Yes	42	Yes	42				
10	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	(Yes or No)	Yes	42	Yes	42					
11	Useful life of the project										
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 29. Otherwise "No"	(Yes or No)	No		No						
13	Input the allowed increase in ROE		0		0						
14	From line 3 above if "No" on line 13 and From line 7 above if "Yes" on line 13		11.68% ROE	11.03%	11.03%						
15	Line 14 plus (line 5 times line 15)/100		FCR for This Project	11.03%	11.03%						
16	Service Account 101 or 106 if not yet classified - End of year balance		Investment	15,327,955	14,065,098						
17	Line 17 divided by line 12		Annual Depreciation or Amort Exp	364,951	334,883						
18	Months in service for depreciation expense from Year placed in Service (if CWIP)			13.00	7.82						
19											
20											
21		Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue			
22	W 11.68 % ROE	2006							\$ 4,652,471	\$ 4,652,471	
23	W Increased ROE	2006							\$ 4,652,471	\$ 4,652,471	
24	W 11.68 % ROE	2007							\$ 29,476,571	\$ 29,476,571	
25	W Increased ROE	2007							\$ 29,476,571	\$ 29,476,571	
26	W 11.68 % ROE	2008							\$ 32,346,385	\$ 32,346,385	
27	W Increased ROE	2008							\$ 32,385,646	\$ 32,385,646	
28	W 11.68 % ROE	2009							\$ 51,356,608	\$ 51,356,608	
29	W Increased ROE	2009							\$ 51,588,883	\$ 51,588,883	
30	W 11.68 % ROE	2010							\$ 61,349,032	\$ 61,349,032	
31	W Increased ROE	2010							\$ 62,015,568	\$ 62,015,568	
32	W 11.68 % ROE	2011							\$ 78,438,322	\$ 78,438,322	
33	W Increased ROE	2011							\$ 79,823,709	\$ 79,823,709	
34	W 11.68 % ROE	2012							\$ 129,728,618	\$ 129,728,618	
35	W Increased ROE	2012							\$ 131,858,773	\$ 131,858,773	
36	W 11.68 % ROE	2013							\$ 279,708,533	\$ 279,708,533	
37	W Increased ROE	2013							\$ 284,314,797	\$ 284,314,797	
38	W 11.68 % ROE	2014	337,481		13,854	133,460		5,677	\$ 342,977,142	\$ 342,977,142	
39	W Increased ROE	2014	337,481		13,854	133,460		5,677	\$ 349,823,024	\$ 349,823,024	
40	W 11.68 % ROE	2015	2,972,226		101,157	258,129		20,804	\$ 434,110,713	\$ 434,110,713	
41	W Increased ROE	2015	2,972,226		101,157	258,129		20,804	\$ 441,614,467	\$ 441,614,467	
42	W 11.68 % ROE	2016	16,168,432		851,765	3,913,246		145,981	\$ 522,903,602	\$ 522,903,602	
43	W Increased ROE	2016	16,168,432		851,765	3,913,246		145,981	\$ 530,687,571	\$ 530,687,571	
44	W 11.68 % ROE	2017	15,327,955		1,691,419	14,065,098		934,008	\$ 576,209,051	\$ 576,209,051	
45	W Increased ROE	2017	15,327,955		1,691,419	14,065,098		934,008	\$ 583,935,097	\$ 583,935,097	

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 8 - Depreciation Rates

<u>Plant Type</u>	<u>PSE&G</u>
Transmission	2.40
Distribution	
High Voltage Distribution	2.49
Meters	2.49
Line Transformers	2.49
All Other Distribution	2.49
General & Common	
Structures and Improvements	1.40
Office Furniture	5.00
Office Equipment	25.00
Computer Equipment	14.29
Personal Computers	33.33
Store Equipment	14.29
Tools, Shop, Garage and Other Tangible Equipment	14.29
Laboratory Equipment	20.00
Communications Equipment	10.00
Miscellaneous Equipment	14.29

Public Service Electric and Gas Company
 Projected Costs of Plant in Forecasted Rate Base and In-Service Dates
 12 Months Ending December 31, 2017

Required Transmission Enhancements

Upgrade ID	RTEP Baseline Project Description	Estimated/Actual Project Cost (thru 2017) *	Anticipated/Actual In-Service Date *
b0130	Replace all derated Branchburg 500/230 kv transformers	\$ 20,680,597	Jan-06
b0134	Reconductor Kittatinny - Newtown 230 kV with 1590 ACSS	\$ 8,069,022	Aug-07
b0145	Build new Essex - Aldene 230 kV cable connected through phase angle regulator at Essex	\$ 86,565,629	Aug-07
b0411	Install 4th 500/230 kV transformer at New Freedom	\$ 22,188,863	May-09
b0498	Loop the 5021 circuit into New Freedom 500 kV substation	\$ 27,005,248	May-09
b0161	Install 230-138kV transformer at Metuchen substation	\$ 25,799,055	Nov-08
b0169	Build a new 230 kV section from Branchburg - Flagtown and move the Flagtown - Somerville 230 kV circuit to the new section	\$ 15,731,554	May-08
b0170	Reconductor the Flagtown-Somerville-Bridgewater 230 kV circuit with 1590 ACSS	\$ 6,961,495	May-09
b0274	Replace both 230/138 kV transformers at Roseland	\$ 21,073,706	Apr-12
b0172.2	Replace wave trap at Branchburg 500kV substation	\$ 27,988	Feb-07
b0813	Reconductor Hudson - South Waterfront 230kV circuit	\$ 9,158,918	May-12
b1017	Reconductor South Mahwah 345 kV J-3410 Circuit	\$ 20,626,991	Dec-12
b1018	Reconductor South Mahwah 345 kV K-3411 Circuit	\$ 21,170,273	May-11
b0290	Branchburg 400 MVAR Capacitor	\$ 80,435,315	Nov-10
b0472	Saddle Brook - Athenia Upgrade Cable	\$ 14,404,842	Nov-08
b0664-b0665	Branchburg-Somerville-Flagtown Reconductor	\$ 18,664,931	Apr-12
b0668	Somerville -Bridgewater Reconductor	\$ 6,390,403	Apr-12
b0814	New Essex-Kearny 138 kV circuit and Kearny 138 kV bus tie	\$ 46,073,245	Dec-10
b1410-b1415	Replace Salem 500 kV breakers	\$ 15,876,913	Oct-12
b1228	230kV Lawrence Switching Station Upgrade	\$ 22,040,646	May-11
b1155	Branchburg-Middlesex Swich Rack	\$ 68,312,808	Dec-11
b1399	Aldene-Springfield Rd. Conversion	\$ 72,443,911	Dec-12
b1590	Upgrade Camden-Richmond 230kV Circuit (B1590)	\$ 11,268,594	Apr-13
b1588	Uprate EaglePoint-Gloucester 230kV Circuit	\$ 12,084,309	May-11
b2139	Build Mickleton-Gloucester Corridor Ultimate Design	\$ 19,023,718	Dec-13
b1255	Ridge Road 69kV Breaker Station	\$ 35,696,237	May-16
b1787	New Cox's Corner-Lumberton 230kV Circuit	\$ 31,718,020	Nov-13
b2276	Sewaren Switch 230kV Conversion	\$ 118,337,484	Dec-13
b0489.5-b0489.15	Susquehanna Roseland Breakers	\$ 5,857,687	Jun-14
b0489.4	Build new 500 kV transmission facilities from Pennsylvania - New Jersey border at Bushkill to Roseland (500kV and above elements of the project)	\$ 40,538,248	Nov-11
b0489	Build new 500 kV transmission facilities from Pennsylvania - New Jersey border at Bushkill to Roseland (Below 500 kV elements of the project)	\$ 722,869,825	Mar-15
b1156	Burlington - Camden 230kV Conversion	\$ 356,525,651	Oct-14
b1398 - b1398.7	Mickleton-Gloucester-Camden	\$ 439,443,096	Jun-15
b1154	North Central Reliability (West Orange Conversion)	\$ 370,184,658	Jun-15
b1304.1-b1304.4	Northeast Grid Reliability Project	\$ 625,991,050	Jun-15
b1304.5-b1304.21	Northeast Grid Reliability Project	\$ 351,791,077	Jul-16
b2436.10	Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades	\$ 175,766,398	Jan-16
b2436.21	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades	\$ 24,373,985	May-16
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	\$ 24,373,985	May-16
b2436.33	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades	\$ 15,071,438	Dec-15

Upgrade ID	RTEP Baseline Project Description	Estimated/Actual Project Cost (thru 2017) *	Anticipated/Actual In-Service Date *
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	\$ 48,229,438	Dec-15
b2436.70	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades	\$ 15,071,438	Dec-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	\$ 24,740,752	Dec-15
b2436.83	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades	\$ 24,740,752	Dec-15
b2436.84	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades	\$ 36,210,096	Dec-15
b2436.85	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades	\$ 36,210,096	Dec-15
b2436.90	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades	\$ 29,256,534	May-16
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades	\$ 25,651,961	May-16
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades	\$ 25,651,961	May-16
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades	\$ 15,071,438	Dec-15
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades	\$ 15,071,438	Dec-15
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades	\$ 58,015,888	Jul-16
b2436.10-b2437.33	Bergen Linden Corridor (BLC) (CWIP)	\$ 371,812,578	Various
	Total	\$ 4,736,352,180	

* May vary from original PJM Data due to updated information.

Public Service Electric and Gas Company
Accumulated Deferred Income Taxes Using The Proration Methodology - Tax Basis

Amounts reflected in Annual Update Filing

2016 EOY Amount	(3,765,312,995)	A
2017 EOY Amount	(4,075,528,187)	B

Account 282, Plant-related Liberalized Depreciation, for 2017

Line	Year	Month	(3) Projected Monthly (Increase) In ADIT - Depreciable Tax Basis	(4) Days Outstanding During the Year	(5) Proration Percentage	(6) Monthly Prorated Amount	(7) Cumulative "prorated" ADIT	(8) Beginning & Ending ADIT Balance
1	2016	Dec						(3,765,312,995) A
2	2017	Jan	(31,359,495)	335	91.78%	(28,782,002)	(3,794,094,997)	
3	2017	Feb	(31,293,390)	307	84.11%	(26,320,741)	(3,820,415,738)	
4	2017	Mar	(31,231,697)	276	75.62%	(23,616,297)	(3,844,032,035)	
5	2017	Apr	(31,645,456)	246	67.40%	(21,328,171)	(3,865,360,206)	
6	2017	May	(31,970,725)	215	58.90%	(18,832,071)	(3,884,192,277)	
7	2017	Jun	(33,434,748)	185	50.68%	(16,946,379)	(3,901,138,656)	
8	2017	Jul	(32,046,386)	154	42.19%	(13,520,941)	(3,914,659,597)	
9	2017	Aug	(31,838,854)	123	33.70%	(10,729,258)	(3,925,388,855)	
10	2017	Sep	(32,783,725)	93	25.48%	(8,353,114)	(3,933,741,969)	
11	2017	Oct	(32,427,917)	62	16.99%	(5,508,304)	(3,939,250,273)	
12	2017	Nov	(31,729,581)	32	8.77%	(2,781,771)	(3,942,032,044)	
13	2017	Dec	(32,877,380)	1	0.27%	(90,075)	(3,942,122,119)	
		Total	(384,639,354)			(176,809,124)		
14								Projected 2017 Liberalized Depreciation based on ADIT Proration Methodology: (176,809,124)
15								Plus: Projected 2017 ADIT associated with Liberalized Deprecation not subject to Proration Methodology: (133,406,068)
16								Projected 2017 EOY Federal and State Liberalized Depreciation ADIT included in the FERC Formula Filing: (4,075,528,187) B

Explanations:

- Col. 8, Line 1 Represents the estimated beginning plant-related Liberalized Depreciation ADIT balance as of 1/1/2017.
- Lines 2 - 13 Represents the Forecasted Rate period (e.g. 2017).
- Col. 3 Represents the monthly (increase) additions to the ADIT balance associated with depreciable tax basis before proration.
- Col. 4 Number of days remaining in the year as of and including the last day of the month.
- Col. 5 Col. 4 divided by the number of days in the year, 365.
- Col. 6 Col. 3 multiplied by Col. 5.
- Col. 7 Col. 6 of previous month plus Col. 7; represents the cumulative balance.
- Col. 8, Line 14 Total projected plant-related Liberalized Depreciation ADIT related to depreciable tax basis.
- Col. 8, Line 15 Projected plant-related Liberalized Depreciation ADIT that is not subjected to the proration rules.
- Col. 8, Line 16 Projected Total EOY balance of plant-related Liberalized Depreciation ADIT that is included in the formula rate.

Attachment 11 (AEP East FERC Formula Rate filing)

Projected Formula Rate for

**AEP Appalachian Transmission Company, Inc.
AEP Indiana Michigan Transmission Company, Inc.
AEP Kentucky Transmission Company, Inc.
AEP Ohio Transmission Company, Inc.
AEP West Virginia Transmission Company, Inc.**

**To be Effective January 1, 2017
Docket No ER10-355**

Pursuant to Attachment H-20A (Formula Rate Implementation Protocols) in PJM Tariff, AEP has calculated its Projected Transmission Revenue Requirements (PTRR) to produce the Rates beginning January 1, 2017 through December 31, 2017. All the files pertaining to the PTRR are also posted on the PJM website in PDF format along with supporting workpapers. The first file provides the PTRR and rates for Network transmission service and Scheduling System Control and Dispatch Service, Schedule 1A.

AEP network service rate will increase effective January 1, 2017 from \$14,565.47 per MW per year or \$39.91/MW Day to \$20,624.88 per MW per year or \$56.51/MW Day with the AEP annual revenue requirement increasing from \$360,132,800 to \$463,558,513.

The AEP Transmission Companies' Schedule 1A rates are not applicable because they are handled via AEP Operating Companies.

An annual revenue requirement of \$152,074,418 for RTEP projects (including true-up and interest) is to be collected under PJM Tariff Schedule 12. The RTEP Project revenue requirement includes:

1. b1465.4 (Rockport Jefferson) of \$1,745,054
2. b1465.2 (Rockport Jefferson-MVAR Bank) \$2,009,698
3. b2048 (Tanners Creek 345/138 kV transformer) \$783,738
4. b1818 (Expand the Allen station) \$9,074,293
5. b1819 (Rebuild Robinson Park) \$8,454,247
6. b1659 (Sorenson Add 765/345 kV transformer) \$5,667,478
7. b1659.13 (Sorenson Exp. Work 765kV) \$7,261,914
8. b1659.14 (Sorenson 14miles 765 line) \$8,131,617
9. b0570 (Lima-Sterling) \$1,641,401
10. b1231 (Wapakoneta-West Moulton) \$608,428
11. b1034.1 (South Canton-Wagenhals-Wayview 138 kV) \$1,563,485
12. b1034.8 (South Canton Wagenhals Station) \$788,081
13. b1864.2 (West Bellaire-Brues 138 kV Circuit) \$196,798
14. b1870 (Ohio Central Transformer) \$1,254,621
15. b1032.2 (Two 138kV outlets to Delano/Camp Sherman) \$5,142,039
16. b1034.2 (Loop existing South Canton-Wayview 138kV) \$1,250,842

Projected Formula Rate for AEP East subsidiaries in PJM

**To be Effective January 1, 2017 through December 31, 2017
Docket No ER08-1329**

Pursuant to PJM OATT Attachment H-14A (Formula Rate Implementation Protocols), AEP has calculated its Projected Transmission Revenue Requirements (PTRR) for the Rate Year beginning January 1, 2017 through December 31, 2017. All the files pertaining to the Annual Update are to be posted on the PJM website in PDF format. The first file provides the PTRR and rates for Network transmission service and Scheduling System Control and Dispatch Service (Schedule 1A), and the annual transmission revenue requirement for RTEP projects (Schedule 12). An informational filing will also be submitted to the FERC.

AEP network service rate will increase effective January 1, 2017 from \$30,979.72 per MW per year to \$36,366.48 per MW per year with the AEP annual revenue requirement increasing from \$765,976,584 to \$817,362,162.

The AEP Schedule 1A rate increased from \$.0923 per MWh to \$.1000 per MWh.

An annual revenue requirement of \$43,791,672 for RTEP projects (including true-up and interest) is to be collected under PJM Tariff Schedule 12. The RTEP Project revenue requirement includes:

1. b0839 (Twin Branch) \$1,152,475
2. b0318 (Amos 765/138 kV Transformer) \$1,768,582
3. b0504 (Hanging Rock) \$1,015,979
4. b0570 (East Side Lima) \$154,435
5. b1034.1 (Torrey-West Canton) \$924,346
6. b1034.6 (138kV circuit South Canton Station) \$373,191
7. b1231 (West Moulton Station) \$1,270,473
8. b1465.2 (Rockport Jefferson 300 MVAR bank) \$78,310
9. b1465.3 (Rockport Jefferson 765 kV line) \$3,272,061
10. b1712.2 (Altavista-Leesville 138kV line) \$331,658
11. b1864.1 (OPCo Kammer 345/138 kV transformers) \$20,957
12. b1864.2 (West Bellaire-Brues 138 kV circuit) of \$154,877
13. b2020 (Rebuild Amos-Kanawha River) \$2,549,339
14. b2021 (APCo Kanawha River Gen Retirement Upgrades) \$336,317
15. b2017 (APCo Rebuild Sporn-Waterford Muskingum River 345kV line) \$2,546,840
16. b1659.14 (Ft. Wayne Relocate) \$(55,404)
17. b2048 (Tanners Creek-Transformer Replacement) \$119,294
18. b1818 (Expand the Allen Station) \$1,563,176
19. b1819 (Rebuild Robinson Park 138kV line corridor) \$565,140
20. b1465.4 (Switching imp at Sullivan Jefferson 765kV station) \$47,859
21. b2021 (OPCo 345/138kV Transformer) \$(1,002,373)
22. b2032 (Rebuild 138kV Elliott Tap-Poston) \$24,088
23. b1034.2 (Loop South Canton-Wayview) \$694,261

Projected Formula Rate for AEP East subsidiaries in PJM

**To be Effective January 1, 2017 through December 31, 2017
Docket No ER08-1329**

24. b1034.7 (Replace circuit breakers Torrey/Wagenhals) \$1,082,787
25. b1970 (Reconductor Kammer-West Bellaire) \$200,266
26. b2018 (Loop Conesville-Bixby 345kV) \$74,270
27. b1032.4 (Loop the existing South Canton-Wayview 138kV circuit) \$269,207
28. b1666 (Build an 8 breaker 138kV station Fosteria-East Lima) \$808,527
29. b1957 (Terminate transformer #2 SW Lima) \$551,006
30. b1962 (Add four 765kV breakers Kammer) \$11,714
31. b2019 (Burger 345/138kV Station) \$1,828,873
32. b2017 (OPCo Reconductor Sporn-Waterford-Muskingum River) \$1,583,831
33. b1032.3 (Convert Ross-Circleville 138kV) \$1,508,826
34. b1660 (Install 765/500 kV transformer Cloverdale) \$8,889,735
35. b1660.1 (Cloverdale Establish 500 kV station) \$3,514,742
36. b1663.2 (Jacksons-Ferry 765kV breakers) \$1,141,031
37. b1875 (138 kV Bradley to McClung upgrades) \$58,204
38. b1797.1 (Reconductor Cloverdale-Lexington 500 kV line) \$3,438,786
39. b1712.1 (Altavista-Leesville 138kV line) \$35,555
40. b1032.2 (Two 138kV outlets to Delano&Camp) \$836,737
41. b1818 (Expand Allen w/345/138kV xfmr) \$51,695

Projected Formula Rate for

AEP Appalachian Transmission Company, Inc.
AEP Indiana Michigan Transmission Company, Inc.
AEP Kentucky Transmission Company, Inc.
AEP Ohio Transmission Company, Inc.
AEP West Virginia Transmission Company, Inc.

To be Effective January 1, 2017
Docket No ER10-355

17. b1034.3 (345/138kV 450 MVA transformer Canton Central) \$2,575,090
18. b1970 (Reconductor Kammer-West Bellaire) \$2,578,153
19. b2018 (Loop Conesville-Bixby 345 kV) \$2,910,415
20. b2021 (OHTCo - Add 345/138kV trans. Sporn, Kanawha & Muskingum River stations) \$4,149,322
21. b2032 (Rebuild 138kV Elliott Tap Poston line) \$92,431
22. b1032.1 (Construct new 345/138kV station Marquis-Bixby) \$(318,603)
23. b1032.4 (Install 138/69kV transformer Ross Highland) \$1,390,691
24. b1666 (Build 8 breaker 138kV station Fostoria-East Lima) \$1,126,676
25. b1819 (Rebuild Robinson Park 345kV double circuit) \$(1,045,271)
26. b1957 (Terminate Transformer #2 SW Lima) \$1,660,139
27. b2019 (Establish Burger 345/138kV station) \$11,043,378
28. b2017 (OHTCo Rebuild Sporn-Waterford-Muskingum River) \$11,408,635
29. b1661 (765kV circuit breaker Wyoming station) \$543,030
30. b1864.1 (Add 2 345/138kV transformers at Kammer) \$12,516,126
31. b2021 (WVTCO - Add 345/138kV trans. Sporn, Kanawha & Muskingum River stations) \$2,512,922
32. b1948 (New 765/345 interconnection Sporn) \$8,661,090
33. b1962 (Add four 765kV breakers Kammer) \$3,329,695
34. b2017 (WVTCO Rebuild Sporn-Waterford-Muskingum River) \$189,766
35. b2020 (Rebuild Amos-Kanawha River 138 kV corridor) \$19,278,915
36. b2022 (Tristate-Kyger Creek 345kV line at Sporn) \$701,182
37. b1875 (138 kV Bradley to McClung upgrades) \$282,208
38. b1495 (Add 765/345 kV transf. Baker Station) \$5,097,838
39. b1465.1 (Add 3rd 2250 MVA 765/345 kv xfmr. Sullivan) \$3,283,917
40. b1818 (Expand Allen w/2nd xfmr. 138kV double circuit tower) \$525,167
41. b2230 (Replace existing 150 MVAR reactor Amos 765kV) \$781,130
42. b2423 (Install 300 MVAR shunt reactor Wyoming 765kV station) \$1,226,646