

Attachment 1 (Derivation of ACE NITS Charge)

ATLANTIC CITY ELECTRIC

Proposed Transmission Rate Design

Formula Rate Effective September 1, 2022

Line

1	Transmission Service Annual Revenue Requirement	\$	210,153,068
2	Less Total Schedule 12 TEC Included in Line (1)	\$	(10,897,285)
3	ACE Customer Share of Schedule 12 TEC included in Line 2	\$	6,052,840
4	Total Transmission Costs Borne by ACE Customers	\$	<u>205,308,623</u>
5	2022 ACE Network Service Peak		2,631
6	2022 Network Integration Transmission Service Rate (per MW Per Year)	\$	<u>78,034.44</u>

PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for ACE Projects

Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2022 - May 2023 Annual Revenue Requirement per PJM website	ACE Zone Share per PJM Open Access Transmission Tariff	ACE Zone Charges
Upgrade AE portion of Delco Tap	b0265	\$ 443,066	89.87%	\$ 398,183
Replace Monroe 8 230/69 kV TXfmrs	b0276	\$ 678,062	91.28%	\$ 618,935
Reconductor Union - 9 Corson 138 kV	b0211	\$ 1,153,534	65.23%	\$ 752,450
New 500/230 Kv Sub on Salem-East Windsor (>500 KV 10 portion)	b0210.A	\$ 1,153,776	1.67%	\$ 19,268
New 500/230 Kv Sub on Salem-East Windsor (>500 KV 11 portion)	b0210.A_dfax	\$ 1,153,776	78.34%	\$ 903,868
New 500/230kV Sub on Salem-East Windsor (< 500kV) 12 portion ²	b0210.B	\$ 1,645,369	65.23%	\$ 1,073,274
Reconductor the existing Mickleton - Goucestr 230 kV 13 circuit (AE portion)	b1398.5	\$ 419,717	0.00%	\$ -
Build second 230kV parallel from Mickelton to 14 Gloucester	b1398.3.1	\$ 1,307,433	0.00%	\$ -
Upgrade to Mill T2 138/69 kV 15 transformer	b1600	\$ 1,556,923	88.83%	\$ 1,383,015
Orchard-Cumberland Install 2nd 230 kV line 16	b0210.1	\$ 1,379,652	65.23%	\$ 899,947
Corson Upgrade 17 138kV Line trap	b0212	\$ 5,978	65.23%	\$ 3,899
Total		\$10,897,285		\$6,052,840

Attachment 2A – Atlantic City Electric Company Tariff Sheets

Attachment 2B – Public Service Electric and Gas Company Tariff Sheets

Attachment 2C – Jersey Central Power & Light Tariff Company Tariff Sheets

Attachment 2D – Rockland Electric Company Tariff Sheets

Attachment 2A – Atlantic City Electric Company Tariff Sheets

RATE SCHEDULE RS
(Residential Service)

AVAILABILITY

Available for full domestic service to individually metered residential customers, including rural domestic customers, engaged principally in agricultural pursuits.

	SUMMER June Through September	WINTER October Through May
Delivery Service Charges:		
Customer Charge (\$/Month)	\$6.25	\$6.25
Distribution Rates (\$/kWh)		
First Block	\$0.072624	\$0.066071
(Summer <= 750 kWh; Winter<= 500kWh)		
Excess kWh	\$0.085307	\$0.066071
Non-Utility Generation Charge (NGC) (\$/kWh)		See Rider NGC
Societal Benefits Charge (\$/kWh)		
Clean Energy Program		See Rider SBC
Universal Service Fund		See Rider SBC
Lifeline		See Rider SBC
Uncollectible Accounts		See Rider SBC
Transition Bond Charge (TBC) (\$/kWh)		See Rider SEC
Market Transition Charge Tax (MTC-Tax) (\$/kWh)		See Rider SEC
Transmission Service Charges (\$/kWh):		
Transmission Rate	\$0.032305	\$0.032305
Reliability Must Run Transmission Surcharge		\$0.000000
Transmission Enhancement Charge (\$/kWh)		See Rider BGS
Basic Generation Service Charge (\$/kWh)		See Rider BGS
Regional Greenhouse Gas Initiative Recovery Charge (\$/kWh)		See Rider RGGI
Infrastructure Investment Program Charge		See Rider IIP
Conservation Incentive Program Recovery Charge		See Rider CIP

CORPORATE BUSINESS TAX (CBT)

Charges under this rate schedule include a component for Corporate Business Taxes as set forth in Rider CBT.

NEW JERSEY SALES AND USE TAX (SUT)

Charges under this rate schedule include a component for New Jersey Sales and Use Tax as set forth in Rider SUT.

Date of Issue:

Effective Date:

Issued by:

ATLANTIC CITY ELECTRIC COMPANY

BPU NJ No. 11 Electric Service - Section IV Revised Sheet Replaces Revised Sheet No. 11

**RATE SCHEDULE MGS-SECONDARY
(Monthly General Service)**

AVAILABILITY

Available at any point within the Company's system where facilities of adequate character and capacity exist for the entire electric service requirements of any customer delivered at one point and metered at or compensated to the voltage of delivery. This schedule is not available to residential customers.

	SUMMER	WINTER
	June Through September	October Through May
Delivery Service Charges:		
Customer Charge		
Single Phase	\$11.90	\$11.90
Three Phase	\$13.84	\$13.84
Distribution Demand Charge (per kW)	\$3.26	\$2.67
Reactive Demand Charge	\$0.64	\$0.64
(For each kvar over one-third of kW demand)		
Distribution Rates (\$/kWh)	\$0.061959	\$0.054818
Non-Utility Generation Charge (NGC) (\$/kWh)		See Rider NGC
Societal Benefits Charge (\$/kWh)		
Clean Energy Program		See Rider SBC
Universal Service Fund		See Rider SBC
Lifeline		See Rider SBC
Uncollectible Accounts		See Rider SBC
Transition Bond Charge (TBC) (\$/kWh)		See Rider SEC
Market Transition Charge Tax (MTC-Tax) (\$/kWh)		See Rider SEC
CIEP Standby Fee (\$/kWh)		See Rider BGS
Transmission Demand Charge (\$/kW for each kW in excess of 3 kW)	\$6.48	\$6.10
Reliability Must Run Transmission Surcharge (\$/kWh)		\$0.000000
Transmission Enhancement Charge (\$/kWh)		See Rider BGS
Basic Generation Service Charge (\$/kWh)		See Rider BGS
Regional Greenhouse Gas Initiative Recovery Charge (\$/kWh)		See Rider RGGI
Infrastructure Investment Program Charge		See Rider IIP
Conservation Incentive Program Recovery Charge		See Rider CIP

The minimum monthly bill will be \$11.90 per month plus any applicable adjustment.

Date of Issue:

Effective Date:

Issued by:

RATE SCHEDULE MGS-SEVC
(Monthly General Service - Secondary Electric Vehicle Charging)

AVAILABILITY

This is a transitional Rate Schedule, available only to publicly-accessible direct current fast charging ("DCFC") stations or sites at any point within the Company's system where facilities of adequate character and capacity exist for the entire electric service requirements of any customer delivered at one point and metered at or compensated to the voltage of delivery. This schedule is for secondary voltage only. The charging location DCFC chargers must be energized and operational for charging greater than 95% up time each calendar year to be eligible for this rate schedule.

This schedule is not available to residential customers. This schedule is not available to commercial and industrial customers who install DCFC chargers that are not publicly-accessible. This schedule is not available to DCFC installations that are installed behind the meter of a new or existing customer premise.

Each Charging Location is limited to 1000 kilowatts ("kW") of service capacity.

This Rate Schedule will be closed as of December 31, 2024. Any customers on this Rate Schedule at that time will be transferred to Monthly General Service Secondary in the following billing cycle.

	SUMMER	WINTER
	June Through September	October Through May
Delivery Service Charges:		
Customer Charge		
Single Phase	\$9.96	\$9.96
Three Phase	\$11.59	\$11.59
Distribution Demand Charge (per kW)	\$0.00	\$0.00
Reactive Demand Charge	\$0.00	\$0.00
(For each kvar over one-third of kW demand)		
Distribution Rates (\$/kWh)	\$0.109000	\$0.109000
Non-Utility Generation Charge (NGC) (\$/kWh)		See Rider NGC
Societal Benefits Charge (\$/kWh)		
Clean Energy Program		See Rider SBC
Universal Service Fund		See Rider SBC
Lifeline		See Rider SBC
Uncollectible Accounts		See Rider SBC
Transition Bond Charge (TBC) (\$/kWh)		See Rider SEC
Market Transition Charge Tax (MTC-Tax) (\$/kWh)		See Rider SEC
CIEP Standby Fee (\$/kWh)		See Rider BGS
Transmission Demand Charge (\$/kW for each kW in excess of 3 kW)	\$6.48	\$6.10
Reliability Must Run Transmission Surcharge (\$/kWh)	\$0.000000	
Transmission Enhancement Charge (\$/kWh)		See Rider BGS
Basic Generation Service Charge (\$/kWh)		See Rider BGS
Regional Greenhouse Gas Initiative Recovery Charge (\$/kWh)		See Rider RGGI
Infrastructure Investment Program Charge		See Rider IIP

The minimum monthly bill will be \$9.96 per month plus any applicable adjustment.

Date of Issue:

Effective Date:

Issued by:

RATE SCHEDULE MGS-PRIMARY
(Monthly General Service)

AVAILABILITY

Available at any point within the Company's system where facilities of adequate character and capacity exist for the entire electric service requirements of any customer delivered at one point and metered at or compensated to the voltage of delivery. This schedule is not available to residential customers.

	SUMMER	WINTER
	June Through September	October Through May
Delivery Service Charges:		
Customer Charge		
Single Phase	\$17.56	\$17.56
Three Phase	\$19.08	\$19.08
Distribution Demand Charge (per kW)	\$1.89	\$1.48
Reactive Demand Charge	\$0.47	\$0.47
(For each kvar over one-third of kW demand)		
Distribution Rates (\$/kWh)	\$0.048105	\$0.046599
 Non-Utility Generation Charge (NGC) (\$/kWh)		
		See Rider NGC
 Societal Benefits Charge (\$/kWh)		
Clean Energy Program		See Rider SBC
Universal Service Fund		See Rider SBC
Lifeline		See Rider SBC
Uncollectible Accounts		See Rider SBC
Transition Bond Charge (TBC) (\$/kWh)		See Rider SEC
Market Transition Charge Tax (MTC-Tax) (\$/kWh)		See Rider SEC
CIEP Standby Fee (\$/kWh)		See Rider BGS
Transmission Demand Charge (\$/kW for each kW in excess of 3 kW)	\$3.63	\$3.28
Reliability Must Run Transmission Surcharge (\$/kWh)		\$0.000000
Transmission Enhancement Charge (\$/kWh)		See Rider BGS
Basic Generation Service Charge (\$/kWh)		See Rider BGS
Regional Greenhouse Gas Initiative		
Recovery Charge (\$/kWh)		See Rider RGGI
Infrastructure Investment Program Charge		See Rider IIP
Conservation Incentive Program Recovery Charge		See Rider CIP

The minimum monthly bill will be \$17.56 per month plus any applicable adjustment.

Date of Issue:

Effective Date:

Issued by:

RATE SCHEDULE AGS-SECONDARY
(Annual General Service)

AVAILABILITY

Available at any point within the Company's system where facilities of adequate character and capacity exist for the entire electric service requirements of any customer contracting for annual service delivered at one point and metered at or compensated to the voltage of delivery.

MONTHLY RATE**Delivery Service Charges:**

Customer Charge	\$193.22
Distribution Demand Charge (\$/kW)	\$12.39
Reactive Demand (for each kvar over one-third of kW demand)	\$0.94
Non-Utility Generation Charge (NGC) (\$/kWh)	See Rider NGC
Societal Benefits Charge (\$/kWh)	
Clean Energy Program	See Rider SBC
Universal Service Fund	See Rider SBC
Lifeline	See Rider SBC
Uncollectible Accounts	See Rider SBC
Transition Bond Charge (TBC) (\$/kWh)	See Rider SEC
Market Transition Charge Tax (MTC-Tax) (\$/kWh)	See Rider SEC
CIEP Standby Fee (\$/kWh)	See Rider BGS
Transmission Demand Charge (\$/kW)	\$5.62
Reliability Must Run Transmission Surcharge (\$/kWh)	\$0.000000
Transmission Enhancement Charge (\$/kWh)	See Rider BGS
Basic Generation Service Charge (\$/kWh)	See Rider BGS
Regional Greenhouse Gas Initiative Recovery Charge (\$/kWh)	See Rider RGGI
Infrastructure Investment Program Charge	See Rider IIP
Conservation Incentive Program Recovery Charge	See Rider CIP

CORPORATE BUSINESS TAX (CBT)

Charges under this rate schedule include a component for Corporate Business Taxes as set forth in Rider CBT.

NEW JERSEY SALES AND USE TAX (SUT)

Charges under this rate schedule include a component for New Jersey Sales and Use Tax as set forth in Rider SUT.

VETERANS' ORGANIZATION SERVICE

Pursuant to N.J.S.A 48:2-21.41, when electric service is delivered to a customer that is a veterans' organization, and where the primary use of the service is dedicated to serving the needs of veterans of the armed forces, and the customer applies for and is eligible for such service.

Each customer shall be eligible for billing under this Special Provision upon submitting an Application for Veterans' Organization Service under this rate schedule and by qualifying as a "Veterans' Organization" as defined by N.J.S.A. 48:2-21.41 as "an organization dedicated to serving the needs of veterans of the armed forces that: is chartered under federal law, qualifies as a tax exempt organization under paragraph (19) of subsection (c) of section 501 of the federal Internal Revenue Code of 1986, 26 U.S.C. s.501 (c)(19), or that is organized as a corporation under the 'New Jersey Nonprofit Corporation Act,' N.J.S.15A:1-1 et seq." Under N.J.S.A. 48: 2-21.41, a qualified Veterans' Organization shall be charged the residential rate for service delivered to the property where the Veterans' Organization primarily operates, if the residential rate is lower than the commercial rate for service at that property. The customer shall furnish satisfactory proof of eligibility of service under this special provision to the Company, who will determine eligibility.

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ATLANTIC CITY ELECTRIC COMPANY

BPU NJ No. 11 Electric Service - Section IV Revised Sheet Replaces Revised Sheet No. 19

RATE SCHEDULE AGS-PRIMARY
(Annual General Service)

AVAILABILITY

Available at any point within the Company's system where facilities of adequate character and capacity exist for the entire electric service requirements of any customer contracting for annual service delivered at one point and metered at or compensated to the voltage of delivery.

MONTHLY RATE

Delivery Service Charges:

Customer Charge	\$744.15
Distribution Demand Charge (\$/kW)	\$9.83
Reactive Demand (for each kvar over one-third of kW demand)	\$0.74

Non-Utility Generation Charge (NGC) (\$/kWh)

See Rider NGC

Societal Benefits Charge (\$/kWh)

Clean Energy Program	See Rider SBC
Universal Service Fund	See Rider SBC
Lifeline	See Rider SBC
Uncollectible Accounts	See Rider SBC
Transition Bond Charge (TBC) (\$/kWh)	See Rider SEC
Market Transition Charge Tax (MTC-Tax) (\$/kWh)	See Rider SEC
CIEP Standby Fee (\$/kWh)	See Rider BGS
Transmission Demand Charge (\$/kW)	\$5.78
Reliability Must Run Transmission Surcharge (\$/kWh)	\$0.000000
Transmission Enhancement Charge (\$/kWh)	See Rider BGS
Basic Generation Service Charge (\$/kWh)	See Rider BGS
Regional Greenhouse Gas Initiative Recovery Charge (\$/kWh)	See Rider RGGI
Infrastructure Investment Program Charge	See Rider IIP
Conservation Incentive Program Recovery Charge	See Rider CIP

CORPORATE BUSINESS TAX (CBT)

Charges under this rate schedule include a component for Corporate Business Taxes as set forth in Rider CBT.

NEW JERSEY SALES AND USE TAX (SUT)

Charges under this rate schedule include a component for New Jersey Sales and Use Tax as set forth in Rider SUT.

VETERANS' ORGANIZATION SERVICE

Pursuant to N.J.S.A 48:2-21.41, when electric service is delivered to a customer that is a veterans' organization, and where the primary use of the service is dedicated to serving the needs of veterans of the armed forces, and the customer applies for and is eligible for such service.

Each customer shall be eligible for billing under this Special Provision upon submitting an Application for Veterans' Organization Service under this rate schedule and by qualifying as a "Veterans' Organization" as defined by N.J.S.A. 48:2-21.41 as "an organization dedicated to serving the needs of veterans of the armed forces that: is chartered under federal law, qualifies as a tax exempt organization under paragraph (19) of subsection (c) of section 501 of the federal Internal Revenue Code of 1986, 26 U.S.C. s.501 (c)(19), or that is organized as a corporation under the 'New Jersey Nonprofit Corporation Act,' N.J.S.15A:1-1 et seq." Under N.J.S.A. 48: 2-21.41, a qualified Veterans' Organization shall be charged the residential rate for service delivered to the property where the Veterans' Organization primarily operates, if the residential rate is lower than the commercial rate for service at that property. The customer shall furnish satisfactory proof of eligibility of service under this special provision to the Company, who will determine eligibility.

Date of Issue:

Effective Date:

Issued by:

RATE SCHEDULE TGS
(Transmission General Service)
(Sub Transmission Service Taken at 23kV and 34.5 kV)

AVAILABILITY

Available at any point within the Company's system where facilities of adequate character and capacity exist for the entire electric service requirements of any customer contracting for annual service delivered at one point and metered at or compensated to the voltage subtransmission level (23 or 34.5 kV).

MONTHLY RATE

Delivery Service Charges:

Customer Charge

Maximum billed demand within the most recent 12 billing months.

Less than 5,000 kW	\$131.75
5,000 – 9,000 kW	\$4,363.57
Greater than 9,000 kW	\$7,921.01

Distribution Demand Charge (\$/kW)

Maximum billed demand within the most recent 12 billing months.

Less than 5,000 kW	\$3.83
5,000 – 9,000 kW	\$2.95
Greater than 9,000 kW	\$1.49

Reactive Demand (for each kvar over one-third of kW demand)

Non-Utility Generation Charge (NGC) (\$/kWh)

\$0.52

See Rider NGC

Societal Benefits Charge (\$/kWh)

Clean Energy Program	See Rider SBC
Universal Service Fund	See Rider SBC
Lifeline	See Rider SBC
Uncollectible Accounts	See Rider SBC

Transition Bond Charge (TBC) (\$/kWh)

Market Transition Charge Tax (MTC-Tax) (\$/kWh)

CIEP Standby Fee (\$/kWh)

Transmission Demand Charge (\$/kW)

\$6.85

Reliability Must Run Transmission Surcharge (\$/kWh)

\$0.000000

Transmission Enhancement Charge (\$/kWh)

See Rider BGS

Basic Generation Service Charge (\$/kWh)

See Rider BGS

Regional Greenhouse Gas Initiative Recovery Charge (\$/kWh)

See Rider RGGI

Infrastructure Investment Program Charge

See Rider IIP

Conservation Incentive Program Recovery Charge

See Rider CIP

Date of Issue:

Effective Date:

Issued by:

RATE SCHEDULE TGS
(Transmission General Service)
(Transmission Service Taken at or above 69kV)

AVAILABILITY

Available at any point within the Company's system where facilities of adequate character and capacity exist for the entire electric service requirements of any customer contracting for annual service delivered at one point and metered at or compensated to the voltage at transmission level (69 kV or higher).

MONTHLY RATE**Delivery Service Charges:****Customer Charge**

Maximum billed demand within the most recent 12 billing months.

Less than 5,000 kW	\$128.21
5,000 – 9,000 kW	\$4,246.42
Greater than 9,000 kW	\$19,316.15

Distribution Demand Charge (\$/kW)

Maximum billed demand within the most recent 12 billing months.

Less than 5,000 kW	\$2.97
5,000 – 9,000 kW	\$2.30
Greater than 9,000 kW	\$0.17

Reactive Demand (for each kvar over one-third of kW demand)**Non-Utility Generation Charge (NGC) (\$/kWh)**

\$0.50
See Rider NGC

Societal Benefits Charge (\$/kWh)

Clean Energy Program	See Rider SBC
Universal Service Fund	See Rider SBC
Lifeline	See Rider SBC
Uncollectible Accounts	See Rider SBC

Transition Bond Charge (TBC) (\$/kWh)**Market Transition Charge Tax (MTC-Tax) (\$/kWh)****CIEP Standby Fee (\$/kWh)****Transmission Demand Charge (\$/kW)**

\$3.42

Reliability Must Run Transmission Surcharge (\$/kWh)

\$0.000000

Transmission Enhancement Charge (\$/kWh)

See Rider BGS

Basic Generation Service Charge (\$/kWh)

See Rider BGS

Regional Greenhouse Gas Initiative Recovery Charge (\$/kWh)

See Rider RGGI

Infrastructure Investment Program Charge

See Rider IIP

Conservation Incentive Program Recovery Charge

See Rider CIP

Date of Issue:

Effective Date:

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RATE SCHEDULE DDC
(Direct Distribution Connection)

AVAILABILITY

Available at any point within the Company's existing distribution system where facilities of adequate character exist for the connection of fixed, constant and predictable non-residential loads not to exceed one kilowatt

MONTHLY RATES

Distribution:

Service and Demand (per day per connection)	\$0.163476
Energy (per day for each kW of effective load)	\$0.787404
Non-Utility Generation Charge (NGC) (\$/kWh)	See Rider NGC
Societal Benefits Charge (\$/kWh)	
Clean Energy Program	See Rider SBC
Universal Service Fund	See Rider SBC
Lifeline See Rider SBC	
Uncollectible Accounts	See Rider SBC
Transition Bond Charge (TBC) (\$/kWh)	See Rider SEC
Market Transition Charge Tax (MTC-Tax) (\$/kWh)	See Rider SEC
Transmission Rate (\$/kWh)	\$0.009564
Reliability Must Run Transmission Surcharge (\$/kWh)	\$0.000000
Transmission Enhancement Charge (\$/kWh)	See Rider BGS
Basic Generation Service Charge (\$/kWh)	See Rider BGS
Regional Greenhouse Gas Initiative Recovery Charge (\$/kWh)	See Rider RGGI
Infrastructure Investment Program Charge	See Rider IIP

CORPORATE BUSINESS TAX (CBT)

Charges under this rate schedule include a component for Corporate Business Taxes as set forth in Rider CBT.

NEW JERSEY SALES AND USE TAX (SUT)

Charges under this rate schedule include a component for New Jersey Sales and Use Tax as set forth in Rider SUT.

LOAD CONSUMPTION

Effective load shall be determined by the Company and be specified in the contract. Effective load is defined as the sum of the products of the connected load in kilowatts times the percent load on at one time. No changes in attached load may be made by the customer without the permission of the Company and customer shall allow the Company access to his premises to assure conformance with this provision.

Date of Issue:
Issued by:

Effective Date:

RIDER STB-STANDBY SERVICE**(Applicable to MGS, AGS, TGS and SPP Rate Schedules)****AVAILABILITY**

This rider is available to customers having other sources of electrical energy supply, but who desire to purchase Standby Service from the Company. The terms of this rider shall not be available in any month when the customer's Generation Availability for the current and preceding five (5) months does not exceed 50%.

DEFINITIONS**Standby Service:**

Standby Service is defined as the additional electrical capacity available to a customer in the event of a forced outage and during a mutually agreed upon customer's scheduled maintenance shutdown of the customer owned electrical energy source.

Standby Service Capacity:

The Standby Service Capacity shall be the maximum electrical capacity in kW supplied by the customer owned electrical energy source during the current and preceding five (5) months. Such Standby Service Capacity may be revised with the Company's approval as changes in the customer's load conditions warrant.

Generation Availability:

Generation Availability is defined as the availability of the customer owned electrical energy source during the current and preceding five (5) months and shall be determined by dividing the Kwhrs produced during this period by the product of the Standby Service Capacity times 4380 hours.

MODIFICATION OF DEMAND DETERMINATION

The monthly billing demand shall be as defined under the "Demand Determination" section of the applicable rate schedule.

The Standby Service Demand shall be the "Standby Service Capacity" as defined above.

During the billing months in which a forced outage or mutually agreed upon customer's scheduled maintenance shutdown occurs, the billing demand will be determined by subtracting the Standby Service Capacity from the total demand and waives the minimum charge provision of the applicable rate schedule. Electric service is provided under the terms of the applicable rate schedule. Total demand is defined as the sum of the Company's demand meter plus demand supplied by the other sources of electrical energy, all computed to the nearest whole kilowatt during a fifteen minute period.

STANDBY SERVICE CHARGE

This rider imposes a Standby Service Charge at the following voltage levels:

Tariff	<u>Transmission Stand By Rate</u> <u>(\$/kW)</u>	<u>Distribution Stand By Rate</u> <u>(\$/kW)</u>
MGS-Secondary and MGS-SEVC	\$0.66	\$0.18
MGS Primary	\$0.37	\$0.16
AGS Secondary	\$0.57	\$1.26
AGS Primary	\$0.59	\$1.00
TGS Sub Transmission	\$0.35	\$0.00
TGS Transmission	\$0.35	\$0.00

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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-SEVC, 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.

Rate Class

	<u>MGS</u> <u>Secondary</u> <u>And MGS-</u> <u>SEVC</u>	<u>MGS</u> <u>Primary</u>	<u>AGS</u> <u>Secondary</u>	<u>AGS</u> <u>Primary</u>	<u>TGS</u>	<u>SPL/</u> <u>CSL</u>	<u>DDC</u>
	<u>RS</u>						
VEPCo	0.000367	0.000278	0.000256	0.000179	0.000156	0.000133	- 0.000114
TrAILCo	0.000275	0.000192	0.000131	0.000138	0.000113	0.000104	- 0.000082
PSE&G	0.003256	0.002478	0.002276	0.001591	0.001385	0.001184	- 0.001018
PATH	0.000010	0.000007	0.000006	0.000004	0.000004	0.000003	- 0.000003
PPL	0.000095	0.000066	0.000046	0.000048	0.000039	0.000036	- 0.000029
PECO	0.000216	0.000150	0.000103	0.000109	0.000088	0.000083	- 0.000065
Pepco	0.000022	0.000016	0.000011	0.000012	0.000010	0.000009	- 0.000006
MAIT	0.000042	0.000032	0.000029	0.000020	0.000018	0.000015	- 0.000013
JCP&L	0.000003	0.000002	0.000002	0.000001	0.000001	0.000001	- 0.000001
EL05-121	0.000019	0.000015	0.000013	0.000010	0.000009	0.000006	- 0.000006
Delmarva	0.000010	0.000006	0.000004	0.000004	0.000004	0.000003	- 0.000003
BG&E	0.000041	0.000028	0.000019	0.000020	0.000017	0.000015	- 0.000012
AEP-East	0.000081	0.000062	0.000057	0.000039	0.000034	0.000030	- 0.000026
Silver Run	0.000325	0.000247	0.000227	0.000159	0.000139	0.000118	- 0.000101
NIPSCO	0.000003	0.000002	0.000002	0.000002	0.000001	0.000001	- 0.000001
CW Edison	-	-	-	-	-	-	-
ER18-680 & Form 715	-	-	-	-	-	-	-
SFC PSEG ROE- TEC	0.000004 (0.000112)	0.000003 (0.000094)	0.000003 (0.000064)	0.000002 (0.000065)	0.000002 (0.000052)	0.000002 (0.000038)	- 0.000001 (0.000039)
Duquesne	0.000002	0.000001	0.000001	0.000001	0.000001	0.000001	- 0.000001
Total	0.004659	0.003491	0.003122	0.002274	0.001969	0.001706	- 0.001443

Date of Issue:
Issued by:

Effective Date:

Attachment 2B – Public Service Electric and Gas Company Tariff Sheets

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

XXX Revised Sheet No. 76

B.P.U.N.J. No. 16 ELECTRIC

Superseding

XXX Revised Sheet No. 76

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

(Continued)

BGS TRANSMISSION CHARGES:

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

Charges per kilowatt-hour:

Rate Schedule	For usage in all months	
	Transmission Charges	Charges Including SUT
RS	\$0.051973	\$0.055416
RHS	0.029948	0.031932
RLM On-Peak	0.112301	0.119741
RLM Off-Peak	0.000000	0.000000
WH	0.000000	0.000000
WHS	0.000000	0.000000
HS	0.051764	0.055193
BPL	0.000000	0.000000
BPL-POF	0.000000	0.000000
PSAL	0.000000	0.000000

The above charges shall recover all costs related to 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 allocated to the above Rate Schedules. 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).

BGS ENERGY CHARGES:

Applicable to Rate Schedules GLP and LPL-Sec.

Charges per kilowatt-hour:

Rate Schedule	For usage in each of the months of		For usage in each of the months of	
	October through May		June through September	
	Charges	Including SUT	Charges	Including SUT
GLP	\$ 0.054749	\$ 0.058376	\$ 0.054625	\$ 0.058244
GLP Night Use	0.051554	0.054969	0.048231	0.051426
LPL-Sec. under 500 kW				
On-Peak	0.058329	0.062193	0.060868	0.064901
Off-Peak	0.051554	0.054969	0.048231	0.051426

The above Basic Generation Service Energy Charges reflect costs for Energy and Ancillary Services (including PJM Administrative Charges).

Kilowatt thresholds noted above are 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:

Effective:
Issued by SCOTT S. JENNINGS, SVP - Corporate Planning, Strategy and Utility Finance – PSE&G
80 Park Plaza, Newark, New Jersey 07102
Filed pursuant to Order of Board of Public Utilities dated
in Docket No.

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

XXX Revised Sheet No. 79

Superseding

B.P.U.N.J. No. 16 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.....	\$ 3.1889
Charge including New Jersey Sales and Use Tax (SUT)	\$ 3.4002

Charge applicable in the months of October through May	\$ 3.1889
Charge including New Jersey Sales and Use Tax (SUT)	\$ 3.4002

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

\$ 135,358.49 per MW per year

EL05-121 \$ 78.17 per MW per month

Public Service Electric and Gas ROE Refund (\$ 404.92) per MW per month

FERC 680 & 715 Reallocation..... \$ 0.00 per MW per month

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 \$ 42.49 per MW per month

Virginia Electric and Power Company \$ 70.58 per MW per month

Potomac-Appalachian Transmission Highline L.L.C. \$ 1.56 per MW per month

PPL Electric Utilities Corporation \$ 183.50 per MW per month

American Electric Power Service Corporation \$ 18.49 per MW per month

Atlantic City Electric Company \$ 8.52 per MW per month

Delmarva Power and Light Company..... \$ 1.25 per MW per month

Potomac Electric Power Company..... \$ 2.67 per MW per month

Baltimore Gas and Electric Company \$ 4.01 per MW per month

Jersey Central Power and Light \$ 61.02 per MW per month

Mid Atlantic Interstate Transmission \$ 16.73 per MW per month

PECO Energy Company \$ 19.93 per MW per month

Silver Run Electric, Inc. \$ 43.21 per MW per month

Northern Indiana Public Service Company \$ 0.89 per MW per month

Commonwealth Edison Company..... \$ 0.12 per MW per month

South First Energy Operating Company \$ 0.70 per MW per month

Duquesne Light Company \$ 0.33 per MW per month

Above rates converted to a charge per kW of Transmission

Obligation, applicable in all months \$11.4292

Charge including New Jersey Sales and Use Tax (SUT) \$12.1864

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:

Effective:

Issued by SCOTT S. JENNINGS, SVP - Corporate Planning, Strategy and Utility Finance – PSE&G

80 Park Plaza, Newark, New Jersey 07102

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

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

B.P.U.N.J. No. 16 ELECTRIC

XXX Revised Sheet No. 83

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

EL05-121 \$ 78.17 per MW per month

Public Service Electric and Gas ROE Refund (\$ 404.92) per MW per month

FERC 680 & 715 Reallocation..... \$ 0.00 per MW per month

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 \$ 42.49 per MW per month

Virginia Electric and Power Company \$ 70.58 per MW per month

Potomac-Appalachian Transmission Highline L.L.C. \$ 1.56 per MW per month

PPL Electric Utilities Corporation..... \$ 183.50 per MW per month

American Electric Power Service Corporation \$ 18.49 per MW per month

Atlantic City Electric Company \$ 8.52 per MW per month

Delmarva Power and Light Company..... \$ 1.25 per MW per month

Potomac Electric Power Company \$ 2.67 per MW per month

Baltimore Gas and Electric Company..... \$ 4.01 per MW per month

Jersey Central Power and Light

Mid Atlantic Interstate Transmission..... \$ 16.73 per MW per month

PECO Energy Company..... \$ 19.93 per MW per month

Silver Run Electric, Inc..... \$ 43.21 per MW per month

Northern Indiana Public Service Company \$ 0.89 per MW per month

Commonwealth Edison Company \$ 0.12 per MW per month

South First Energy Operating Company \$ 0.70 per MW per month

Duquesne Light Company \$ 0.33 per MW per month

Above rates converted to a charge per kW of Transmission

Obligation, applicable in all months\$11.4292

Charge including New Jersey Sales and Use Tax (SUT)\$12.1864

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:

Effective:
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80 Park Plaza, Newark, New Jersey 07102
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in Docket No.

Attachment 2C – Jersey Central Power & Light Tariff Company Tariff Sheets

JERSEY CENTRAL POWER & LIGHT COMPANY

BPU No. 13 ELECTRIC - PART III

XXth Rev. Sheet No. 42
Superseding XXth Rev. Sheet No. 42

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 September 1, 2019, 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 **December 15, 2021**, 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:

EL18-680FM715-TEC surcharge of **\$0.000000** per KWH

Effective **February 1, 2022**, 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:

PSEGROE-TEC surcharge of **(\$0.000061)** per KWH

Effective **April 1, 2022**, 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:

PSEG-TEC surcharge of **\$0.002959** per KWH

VEPCO-TEC surcharge of **\$0.000300** per KWH

PATH-TEC surcharge of **\$0.000007** per KWH

AEP-East-TEC surcharge of **\$0.000076** per KWH

MAIT-TEC surcharge of **\$0.000076** per KWH

EL05-121-TEC surcharge of **\$0.000235** per KWH

SRE-TEC surcharge of **\$0.000200** per KWH

NIPSCO-TEC surcharge of **\$0.000002** per KWH

SFC-TEC surcharge of **\$0.000004** per KWH

Effective **September 1, 2022**, 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:

TRAILCO-TEC surcharge of **\$0.000208** per KWH

ACE-TEC surcharge of **\$0.000098** per KWH

PECO-TEC surcharge of **\$0.000068** per KWH

PPL-TEC surcharge of **\$0.000643** per KWH

Delmarva-TEC surcharge of **\$0.000005** per KWH

PEPCO-TEC surcharge of **\$0.000013** per KWH

BG&E-TEC surcharge of **\$0.000016** per KWH

COMED-TEC surcharge of **\$0.000000** Per KWH

Duquesne-TEC surcharge of **\$0.000000** Per KWH

3) BGS Reconciliation Charge per KWH: (\$0.008574) (includes Sales and Use Tax as provided in Rider SUT)
The above BGS Reconciliation Charge recovers the difference between the costs for the provision of Basic Generation Service and the revenues from BGS customers for Basic Generation Service and is subject to quarterly true-ups.

Issued:

Effective:

Filed pursuant to Order of Board of Public Utilities
Docket dated

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

JERSEY CENTRAL POWER & LIGHT COMPANY

BPU No. 13 ELECTRIC - PART III

XXth Rev. Sheet No. 44

Superseding XXth Rev. Sheet No. 44

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 December 15, 2021, 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:

EL18-680Fm715-TEC

GS and GST	\$0.000000
GP	\$0.000000
GT	\$0.000000
GT – High Tension Service	\$0.000000

Effective February 1, 2022, 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:

PSEGROE-TEC

GS and GST	(\$0.000061)
GP	(\$0.000036)
GT	(\$0.000034)
GT – High Tension Service	(\$0.000010)

Effective April 1, 2022, 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:

	PSEG-TEC	VEPCO-TEC	PATH-TEC	AEP-East-TEC
GS and GST	\$0.002959	\$0.000300	\$0.000007	\$0.000076
GP	\$0.001800	\$0.000182	\$0.000004	\$0.000046
GT	\$0.001581	\$0.000160	\$0.000004	\$0.000041
GT – High Tension Service	\$0.000425	\$0.000043	\$0.000001	\$0.000011
	MAIT-TEC	EL05-121-TEC	SRE-TEC	NIPSCO-TEC
GS and GST	\$0.000076	\$0.000235	\$0.000200	\$0.000002
GP	\$0.000046	\$0.000143	\$0.000122	\$0.000001
GT	\$0.000041	\$0.000126	\$0.000107	\$0.000001
GT – High Tension Service	\$0.000011	\$0.000034	\$0.000029	\$0.000000
				SFC-TEC

Effective September 1, 2022, 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:

	TRAILCO-TEC	ACE-TEC	PECO-TEC	Delmarva-TEC
GS and GST	\$0.000208	\$0.000098	\$0.000068	\$0.000005
GP	\$0.000124	\$0.000059	\$0.000041	\$0.000003
GT	\$0.000113	\$0.000053	\$0.000037	\$0.000003
GT – High Tension Service	\$0.000033	\$0.000016	\$0.000011	\$0.000001
	PPL-TEC	PEPCO-TEC	BG&E-TEC	COMED-TEC
GS and GST	\$0.000643	\$0.000013	\$0.000016	\$0.000000
GP	\$0.000383	\$0.000007	\$0.000010	\$0.000000
GT	\$0.000350	\$0.000006	\$0.000009	\$0.000000
GT – High Tension Service	\$0.000102	\$0.000002	\$0.000002	\$0.000000
				Duquesne-TEC

4) BGS Reconciliation Charge per KWH: (\$0.000986) (includes Sales and Use Tax as provided in Rider SUT)

The above BGS Reconciliation Charge recovers the difference between the costs for the provision of Basic Generation Service and the revenues from BGS customers for Basic Generation Service and is subject to quarterly true-ups.

Issued:

Effective:

Filed pursuant to Order of Board of Public Utilities
Docket

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

Attachment 2D – Rockland Electric Company Tariff Sheets

DRAFT

Revised Leaf No. 83
Superseding Revised Leaf No. 83

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

RATE – MONTHLY (Continued)

(3) Transmission Charges

- (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>
All kWh	@ 1.515 ¢ per kWh	1.515 ¢ per kWh
(b) <u>Transmission Surcharge</u> – This charge is applicable to all customers taking Basic Generation Service from the Company and includes surcharges related to Reliability Must Run, EL05-121 Settlement and Transmission Enhancement Charges.	All kWh	@ 1.380 ¢ per kWh

(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Temporary Tax Act Credit, and Zero Emission Certificate Recovery Charge.

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Temporary Tax Act Credit, and Zero Emission Certificate Recovery Charge as described in General Information Section Nos. 33, 34, 36, and 37 respectively, shall be assessed on all kWh delivered hereunder.

* Definition of Summer Billing Months - June through September

(Continued)

ISSUED:

EFFECTIVE:

ISSUED BY: Robert Sanchez, President
Mahwah, New Jersey 07430

DRAFT

Revised Leaf No. 90
Superseding Revised 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, EL05-121 Settlement and Transmission Enhancement Charges.

	<u>Summer Months*</u>	<u>Other Months</u>
<u>Secondary Voltage Service Only</u> All kWh@	0.697 ¢ per kWh	0.697 ¢ per kWh
<u>Primary Voltage Service Only</u> All kWh@	0.788 ¢ per kWh	0.788 ¢ per kWh

(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Temporary Tax Act Credit, and Zero Emission Certificate Recovery Charge.

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Temporary Tax Act Credit, and Zero Emission Certificate Recovery Charge as described in General Information Section Nos. 33, 34, 36, and 37 respectively, shall be assessed on all kWh delivered hereunder.

* Definition of Summer Billing Months - June through September

(Continued)

ISSUED:

EFFECTIVE:

ISSUED BY: Robert Sanchez, President
Mahwah, New Jersey 07430

DRAFT

Revised Leaf No. 96
Superseding Revised 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	@ 1.515 ¢ per kWh	1.515 ¢ per kWh
<u>Off-Peak</u>		
All other kWh	@ 1.515 ¢ per kWh	1.515 ¢ 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, EL05-121 Settlement and Transmission Enhancement Charges.		
All kWh	@ 1.034 ¢ per kWh	1.034 ¢ per kWh

(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Temporary Tax Act Credit, and Zero Emission Certificate Recovery Charge.

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Temporary Tax Act Credit, and Zero Emission Certificate Recovery Charge as described in General Information Section Nos. 33, 34, 36, and 37 respectively, shall be assessed on all kWh delivered hereunder.

* Definition of Summer Billing Months - June through September

(Continued)

ISSUED:

EFFECTIVE:

ISSUED BY: Robert Sanchez, President
Mahwah, New Jersey 07430

DRAFT

Revised Leaf No. 124
Superseding Revised Leaf No. 124

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 @	\$2.41 per kW	\$2.41 per kW
Period II	All kW @	0.64 per kW	0.64 per kW
Period III	All kW @	2.41 per kW	2.41 per kW
Period IV	All kW @	0.64 per kW	0.64 per kW
<u>Usage Charge</u>			
Period I	All kWh @	0.404 ¢ per kWh	0.404 ¢ per kWh
Period II	All kWh @	0.404 ¢ per kWh	0.404 ¢ per kWh
Period III	All kWh @	0.404 ¢ per kWh	0.404 ¢ per kWh
Period IV	All kWh @	0.404 ¢ per kWh	0.404 ¢ 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, EL05-121 Settlement and Transmission Enhancement Charges.

		<u>Primary</u>	<u>High Voltage Distribution</u>
All Periods	All kWh @	0.477 ¢ per kWh	0.477 ¢ per kWh

(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Temporary Tax Act Credit, and Zero Emission Certificate Recovery Charge.

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Temporary Tax Act Credit, and Zero Emission Certificate Recovery Charge as described in General Information Section Nos. 33, 34, 36, and 37 respectively, shall be assessed on all kWh delivered hereunder.

(Continued)

ISSUED:

EFFECTIVE:

ISSUED BY: Robert Sanchez, President
Mahwah, New Jersey 07430

DRAFT

Revised Leaf No. 127
Superseding Revised 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 3.973 ¢ per kWh during the billing months of October through May and 6.423 ¢ per kWh during the summer billing months, a Transmission Charge of 0.404 ¢ per kWh and a Transmission Surcharge of **0.477** ¢ per kWh during all billing months. The applicability of Transmission Charges and the Transmission Surcharge is described in Part (3) of RATE – MONTHLY.

When this option is requested it shall apply for at least 12 months and shall be subject to a minimum charge of \$26.87 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: Robert Sanchez, President
Mahwah, New Jersey 07430

Attachment 3 – Proposed ACE Transmission Rate Design

Atlantic City Electric Company
 Proposed Transmission Rate Design
 Formula Rate Effective September 1, 2022
 Change in FERC Formual Based Rate

	2021 Booked Total Revenue (\$)	Annualized Transmission Revenue based on Current Billing Determinants (\$)	Transmission Peak Load Share (kW)	Transmission Revenue based on Peak Load Share (\$)	Increase/(Decrease) (\$)	Increase/(Decrease) (%)
Residential						
Residential	\$ 725,943,844	\$ 97,830,841	1,577,055	\$ 123,436,189	\$ 25,605,348	3.53%
Commercial and Industrial						
MGS Secondary*	\$ 182,750,470	\$ 28,020,340	348,905	\$ 27,308,787	\$ (711,553)	-0.39%
MGS Primary	\$ 5,908,469	\$ 597,374	8,502	\$ 665,436	\$ 68,062	1.15%
AGS Secondary	\$ 110,940,151	\$ 22,678,052	315,412	\$ 24,687,310	\$ 2,009,257	1.81%
AGS Primary	\$ 31,160,572	\$ 5,805,623	88,221	\$ 6,905,080	\$ 1,099,456	3.53%
TGS - Subtransmission	\$ 31,046,616	\$ 5,975,589	91,682	\$ 7,175,956	\$ 1,200,367	3.87%
TGS - Transmission	\$ 15,791,861	\$ 2,560,764	47,950	\$ 3,753,011	\$ 1,192,247	7.55%
SPL/CSL	\$ 20,439,954	\$ -	-	\$ -	\$ -	0.00%
DDC	\$ 1,030,240	\$ 126,252	1,713	\$ 134,038	\$ 7,786	0.76%
Subtotal Commercial and Industrial	\$ 399,068,333	\$ 65,763,994	902,384	\$ 70,629,617	\$ 4,865,622	1.22%
Total Jurisdiction	\$ 1,125,012,178	\$ 163,594,835	2,479,439	\$ 194,065,806	\$ 30,470,971	2.71%

Wholesale Transmission Rate
 Rate Including Regulatory Assessment

*MGS Secondary includes MGS Secondary and MGS Secondary Electric Vehicle Charging

ATLANTIC CITY ELECTRIC

Proposed Transmission Rate Design

Formula Rate Effective September 1, 2022

Residential ("RS")

	<u>Billing Determinants</u>	<u>Rate</u>	<u>Rate w/o SUT</u>	<u>Annualized Present Revenue w/o SUT</u>	<u>Rate Adjustment</u>	<u>Proposed Rate w/o SUT</u>	<u>Proposed Rate w/SUT</u>
kWh	4,074,078,244	\$ 0.025604	\$ 0.024013	\$ 97,830,841	\$ 0.006285	\$ 0.030298	\$ 0.032305
Transmission Rate Change				\$ 25,605,348			

ATLANTIC CITY ELECTRIC

Proposed Transmission Rate Design

Formula Rate Effective September 1, 2022

Monthly General Service - Secondary (MGS Secondary)

Billing Determinants	Rate	Rate w/o SUT	Annualized Present Revenue w/o SUT	Rate Adjustment	Proposed Rate w/o SUT	Proposed Rate w/SUT
Demand						
SUM > 3 KW	1,843,997	\$ 6.64	\$ 6.23	\$ 11,488,101	\$ (0.150000)	\$ 6.08
WIN > 3 KW	2,816,395	\$ 6.26	\$ 5.87	\$ 16,532,239	\$ (0.150000)	\$ 5.72
TOTAL KW	<u><u>4,660,392</u></u>			<u><u>\$ 28,020,340</u></u>		
Transmission Rate Change						
			\$ (711,553)			

ATLANTIC CITY ELECTRIC

Proposed Transmission Rate Design

Formula Rate Effective September 1, 2022

Monthly General Service - Primary (MGS Primary)

	Billing Determinants	Rate	Rate w/o SUT	Annualized Present Revenue w/o SUT	Rate Adjustment	Proposed Rate w/o SUT	Proposed Rate w/SUT
Demand							
SUM > 3 KW	77,231	\$ 3.27	\$ 3.07	\$ 237,099	\$ 0.33	\$ 3.40	\$ 3.63
WIN > 3 KW	131,009	\$ 2.93	\$ 2.75	\$ 360,275	\$ 0.33	\$ 3.08	\$ 3.28
TOTAL KW	<u>208,240</u>			<u>\$ 597,374</u>			
Transmission Rate Change							
				\$ 68,062			

ATLANTIC CITY ELECTRIC

Proposed Transmission Rate Design

Formula Rate Effective September 1, 2022

Annual General Service Secondary (AGS Secondary)

	Billing Determinants	Rate	Rate w/o SUT	Annualized Present Revenue w/o SUT	Rate Adjustment	Proposed Rate w/o SUT	Proposed Rate w/SUT
Demand KW	4,685,548	\$ 5.16	\$ 4.84	\$ 22,678,052	\$ 0.43	\$ 5.27	\$ 5.62
Transmission Rate Change				\$ 2,009,257			

ATLANTIC CITY ELECTRIC

Proposed Transmission Rate Design

Formula Rate Effective September 1, 2022

Annual General Service Primary (AGS Primary)

	Billing Determinants	Rate	Rate w/o SUT	Annualized Present Revenue w/o SUT	Rate Adjustment	Proposed Rate w/o SUT	Proposed Rate w/SUT
Demand KW	1,273,163	\$ 4.86	\$ 4.56	\$ 5,805,623	\$ 0.86	\$ 5.42	\$ 5.78
Transmission Rate Change				\$ 1,099,456			

ATLANTIC CITY ELECTRIC

Proposed Transmission Rate Design

Formula Rate Effective September 1, 2022

Sub Transmission General Service (TGS)

	<u>Billing Determinants</u>	<u>Rate</u>	<u>Rate w/o SUT</u>	<u>Annualized Present Revenue w/o SUT</u>	<u>Rate Adjustment</u>	<u>Proposed Rate w/o SUT</u>	<u>Proposed Rate w/SUT</u>
Demand KW	1,116,933	\$ 5.70	\$ 5.35	\$ 5,975,589	\$ 1.07	\$ 6.42	\$ 6.85
Transmission Rate Change				\$ 1,200,367			

ATLANTIC CITY ELECTRIC

Proposed Transmission Rate Design

Formula Rate Effective September 1, 2022

Transmission General Service (TGS)

	<u>Billing Determinants</u>	<u>Rate</u>	<u>Rate w/o SUT</u>	<u>Annualized Present Revenue w/o SUT</u>	<u>Rate Adjustment</u>	<u>Proposed Rate w/o SUT</u>	<u>Proposed Rate w/SUT</u>
Demand KW	1,169,299	\$ 2.34	\$ 2.19	\$ 2,560,764	\$ 1.02	\$ 3.21	\$ 3.42
Transmission Rate Change				\$ 1,192,247			

ATLANTIC CITY ELECTRIC

Proposed Transmission Rate Design

Formula Rate Effective September 1, 2022

Street and Private Lighting (SPL)

Contributed Street Lighting (CSL)

	Billing Determinants	Rate	Rate w/o SUT	Annualized Present Revenue w/o SUT	Rate Adjustment	Proposed Rate w/o SUT	Proposed Rate w/SUT
Kilowatthour charge							
Annual	69,605,845	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Transmission Rate Change

ATLANTIC CITY ELECTRIC

Proposed Transmission Rate Design

Formula Rate Effective September 1, 2022

Direct Distribution Connection (DDC)

	Billing Determinants	Rate	Rate w/o SUT	Annualized Present Revenue w/o SUT	Rate Adjustment	Proposed Rate w/o SUT	Proposed Rate w/SUT
Kilowatthour charge							
Annual	14,942,786	\$ 0.009009	\$ 0.008449	\$ 126,252	\$ 0.000521	\$ 0.008970	\$ 0.009564
Transmission Rate Change				\$ 7,786			

Atlantic City Electric Company
Standby Rate Development
Formula Rate Effective September 1, 2022

Rate Schedule	Demand Rates (\$/kW)		Standby Rates (\$/kW)		Transmission Standby Factor
		Transmission		Transmission	
MGS Secondary	\$	6.48	\$	0.66	0.101604278
MGS Primary	\$	3.63	\$	0.37	0.101604278
AGS Secondary	\$	5.62	\$	0.57	0.101604278
AGS Primary	\$	5.78	\$	0.59	0.101604278
TGS Transmission	\$	3.42	\$	0.35	0.101604278

Attachment 4A – Translation of 2022/2023 Schedule 12 Charges into Rates – ACE
Attachment 4B – Translation of 2022/2023 Schedule 12 Charges into Rates – PSE&G
Attachment 4C – Translation of 2022/2023 Schedule 12 Charges into Rates – JCP&L
Attachment 4D – Translation of 2022/2023 Schedule 12 Charges into Rates – RECO

Attachment 4A – Translation of 2022/2023 Schedule 12 Charges into Rates – ACE

Atlantic City Electric Company

Proposed TrAIL CO Projects Transmission Enhancement Charge (TrAIL Co Project-TEC Surcharge) effective September 1, 2022
To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 1, 2022

Transmission Enhancement Costs Allocated to ACE Zone (2022)	\$ 144,641
	<hr/> \$ 144,641

2022 ACE Zone Transmission Peak Load (MW)	2,631
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Transmission Enhancement Rate (\$/MW)	\$ 54.98
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales June 2022 - May 2023 (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 1.06625 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,577	\$ 1,040,393	4,053,632,865	\$ 0.000257	\$ 0.000258	\$ 0.000275
MGS Secondary	349	\$ 230,175	1,286,085,535	\$ 0.000179	\$ 0.000180	\$ 0.000192
MGS Primary	9	\$ 5,609	45,690,273	\$ 0.000123	\$ 0.000123	\$ 0.000131
AGS Secondary	315	\$ 208,079	1,610,533,369	\$ 0.000129	\$ 0.000129	\$ 0.000138
AGS Primary	88	\$ 58,200	550,675,023	\$ 0.000106	\$ 0.000106	\$ 0.000113
TGS	140	\$ 92,116	935,780,777	\$ 0.000098	\$ 0.000098	\$ 0.000104
SPL/CSL	-	\$ -	71,439,227	\$ -	\$ -	\$ -
DDC	2	\$ 1,130	14,627,511	\$ 0.000077	\$ 0.000077	\$ 0.000082
	2,479	\$ 1,635,702	8,568,464,579			

Atlantic City Electric Company

Proposed PPL Projects Transmission Enhancement Charge (PPL Project-TEC Surcharge) effective September 1, 2022
To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 1, 2022

Transmission Enhancement Costs Allocated to ACE Zone (2022)	\$ 50,327
	<hr/> \$ 50,327

2022 ACE Zone Transmission Peak Load (MW)	2,631
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Transmission Enhancement Rate (\$/MW)	\$ 19.13
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales June 2022 - May 2023 (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 1.06625 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,577	\$ 362,002	4,053,632,865	\$ 0.000089	\$ 0.000089	\$ 0.000095
MGS Secondary	349	\$ 80,089	1,286,085,535	\$ 0.000062	\$ 0.000062	\$ 0.000066
MGS Primary	9	\$ 1,952	45,690,273	\$ 0.000043	\$ 0.000043	\$ 0.000046
AGS Secondary	315	\$ 72,401	1,610,533,369	\$ 0.000045	\$ 0.000045	\$ 0.000048
AGS Primary	88	\$ 20,251	550,675,023	\$ 0.000037	\$ 0.000037	\$ 0.000039
TGS	140	\$ 32,051	935,780,777	\$ 0.000034	\$ 0.000034	\$ 0.000036
SPL/CSL	-	\$ -	71,439,227	\$ -	\$ -	\$ -
DDC	2	\$ 393	14,627,511	\$ 0.000027	\$ 0.000027	\$ 0.000029
	2,479	\$ 569,137	8,568,464,579			

Atlantic City Electric Company

Proposed PECO Projects Transmission Enhancement Charge (PECO-TEC Surcharge) effective September 1, 2022
To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 1, 2022

Transmission Enhancement Costs Allocated to ACE Zone (2022)	\$ 113,993
	<hr/> \$ 113,993

2022 ACE Zone Transmission Peak Load (MW)	2,631
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Transmission Enhancement Rate (\$/MW)	\$ 43.33
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales June 2022 - May 2023 (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 1.06625 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,577	\$ 819,950	4,053,632,865	\$ 0.000202	\$ 0.000203	\$ 0.000216
MGS Secondary	349	\$ 181,404	1,286,085,535	\$ 0.000141	\$ 0.000141	\$ 0.000150
MGS Primary	9	\$ 4,420	45,690,273	\$ 0.000097	\$ 0.000097	\$ 0.000103
AGS Secondary	315	\$ 163,990	1,610,533,369	\$ 0.000102	\$ 0.000102	\$ 0.000109
AGS Primary	88	\$ 45,868	550,675,023	\$ 0.000083	\$ 0.000083	\$ 0.000088
TGS	140	\$ 72,598	935,780,777	\$ 0.000078	\$ 0.000078	\$ 0.000083
SPL/CSL	-	\$ -	71,439,227	\$ -	\$ -	\$ -
DDC	2	\$ 890	14,627,511	\$ 0.000061	\$ 0.000061	\$ 0.000065
	2,479	\$ 1,289,121	8,568,464,579			

Atlantic City Electric Company

Proposed PEPCO Projects Transmission Enhancement Charge (PEPCO Project-TEC Surcharge) effective September 1, 2022
To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 1, 2022

Transmission Enhancement Costs Allocated to ACE Zone (2022)	\$ 11,999
	<hr/>
	\$ 11,999

2022 ACE Zone Transmission Peak Load (MW)	2,631
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Transmission Enhancement Rate (\$/MW)	\$ 4.56
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales June 2022 - May 2023 (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 1.06625 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,577	\$ 86,305	4,053,632,865	\$ 0.000021	\$ 0.000021	\$ 0.000022
MGS Secondary	349	\$ 19,094	1,286,085,535	\$ 0.000015	\$ 0.000015	\$ 0.000016
MGS Primary	9	\$ 465	45,690,273	\$ 0.000010	\$ 0.000010	\$ 0.000011
AGS Secondary	315	\$ 17,261	1,610,533,369	\$ 0.000011	\$ 0.000011	\$ 0.000012
AGS Primary	88	\$ 4,828	550,675,023	\$ 0.000009	\$ 0.000009	\$ 0.000010
TGS	140	\$ 7,641	935,780,777	\$ 0.000008	\$ 0.000008	\$ 0.000009
SPL/CSL	-	\$ -	71,439,227	\$ -	\$ -	\$ -
DDC	2	\$ 94	14,627,511	\$ 0.000006	\$ 0.000006	\$ 0.000006
	2,479	\$ 135,689	8,568,464,579			

Atlantic City Electric Company

Proposed DPL Projects Transmission Enhancement Charge (DPL Project-TEC Surcharge) effective September 1, 2022
To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 1, 2022

Transmission Enhancement Costs Allocated to ACE Zone (2022)	\$ 4,818
	<hr/> \$ 4,818

2022 ACE Zone Transmission Peak Load (MW)	2,631
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Transmission Enhancement Rate (\$/MW)	\$ 1.83
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales June 2022 - May 2023 (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 1.06625 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,577	\$ 34,655	4,053,632,865	\$ 0.000009	\$ 0.000009	\$ 0.000010
MGS Secondary	349	\$ 7,667	1,286,085,535	\$ 0.000006	\$ 0.000006	\$ 0.000006
MGS Primary	9	\$ 187	45,690,273	\$ 0.000004	\$ 0.000004	\$ 0.000004
AGS Secondary	315	\$ 6,931	1,610,533,369	\$ 0.000004	\$ 0.000004	\$ 0.000004
AGS Primary	88	\$ 1,939	550,675,023	\$ 0.000004	\$ 0.000004	\$ 0.000004
TGS	140	\$ 3,068	935,780,777	\$ 0.000003	\$ 0.000003	\$ 0.000003
SPL/CSL	-	\$ -	71,439,227	\$ -	\$ -	\$ -
DDC	2	\$ 38	14,627,511	\$ 0.000003	\$ 0.000003	\$ 0.000003
	2,479	\$ 54,485	8,568,464,579			

Atlantic City Electric Company

Proposed BG&E Projects Transmission Enhancement Charge (BG&E Project-TEC Surcharge) effective September 1, 2022
To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 1, 2022

Transmission Enhancement Costs Allocated to ACE Zone (2022)	\$ 21,244
	<hr/>
	\$ 21,244

2022 ACE Zone Transmission Peak Load (MW)	2,631
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Transmission Enhancement Rate (\$/MW)	\$ 8.07
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Rate Class	Col. 1	Col. 2	Col. 3	Col. 4 = Col. 2/Col. 3	Col. 5 = Col. 4 x 1/(1-Effective Rate)	Col. 6 = Col. 5 x 1.06625
	Transmission Obligation (MW)	Allocated Cost Recovery	BGS Eligible Sales June 2022 - May 2023 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ BPU Assessment (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,577	\$ 152,804	4,053,632,865	\$ 0.000038	\$ 0.000038	\$ 0.000041
MGS Secondary	349	\$ 33,806	1,286,085,535	\$ 0.000026	\$ 0.000026	\$ 0.000028
MGS Primary	9	\$ 824	45,690,273	\$ 0.000018	\$ 0.000018	\$ 0.000019
AGS Secondary	315	\$ 30,561	1,610,533,369	\$ 0.000019	\$ 0.000019	\$ 0.000020
AGS Primary	88	\$ 8,548	550,675,023	\$ 0.000016	\$ 0.000016	\$ 0.000017
TGS	140	\$ 13,529	935,780,777	\$ 0.000014	\$ 0.000014	\$ 0.000015
SPL/CSL	-	\$ -	71,439,227	\$ -	\$ -	\$ -
DDC	2	\$ 166	14,627,511	\$ 0.000011	\$ 0.000011	\$ 0.000012
	<hr/>	<hr/>	<hr/>			
	2,479	\$ 240,238	8,568,464,579			

Atlantic City Electric Company

Proposed CW Edison Projects Transmission Enhancement Charge (PPL Project-TEC Surcharge) effective September 1, 2022
To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 1, 2022

Transmission Enhancement Costs Allocated to ACE Zone (2022)	\$	190
	\$	190

2022 ACE Zone Transmission Peak Load (MW) 2,631

Transmission Enhancement Rate (\$/MW) \$ 0.07

Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales June 2022 - May 2023 (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 1.06625 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,577	\$ 1,364	4,053,632,865	\$ -	\$ -	\$ -
MGS Secondary	349	\$ 302	1,286,085,535	\$ -	\$ -	\$ -
MGS Primary	9	\$ 7	45,690,273	\$ -	\$ -	\$ -
AGS Secondary	315	\$ 273	1,610,533,369	\$ -	\$ -	\$ -
AGS Primary	88	\$ 76	550,675,023	\$ -	\$ -	\$ -
TGS	140	\$ 121	935,780,777	\$ -	\$ -	\$ -
SPL/CSL	-	\$ -	71,439,227	\$ -	\$ -	\$ -
DDC	2	\$ 1	14,627,511	\$ -	\$ -	\$ -
	2,479	\$ 2,144	8,568,464,579			

Atlantic City Electric Company

Proposed Duquesne Projects Transmission Enhancement Charge (Duquesne Surcharge) effective September 1, 2022
To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 1, 2022

Transmission Enhancement Costs Allocated to ACE Zone (2022)	\$	950
	\$	950

2022 ACE Zone Transmission Peak Load (MW)	2,631
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Transmission Enhancement Rate (\$/MW)	\$	0.36
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Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales June 2022 - May 2023 (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 1.06625 Transmission Enhancement Charge w/ SUT (\$/kWh)
RS	1,577	\$ 6,831	4,053,632,865	\$ 0.000002	\$ 0.000002	\$ 0.000002
MGS Secondary	349	\$ 1,511	1,286,085,535	\$ 0.000001	\$ 0.000001	\$ 0.000001
MGS Primary	9	\$ 37	45,690,273	\$ 0.000001	\$ 0.000001	\$ 0.000001
AGS Secondary	315	\$ 1,366	1,610,533,369	\$ 0.000001	\$ 0.000001	\$ 0.000001
AGS Primary	88	\$ 382	550,675,023	\$ 0.000001	\$ 0.000001	\$ 0.000001
TGS	140	\$ 605	935,780,777	\$ 0.000001	\$ 0.000001	\$ 0.000001
SPL/CSL	-	\$ -	71,439,227	\$ -	\$ -	\$ -
DDC	2	\$ 7	14,627,511	\$ 0.000001	\$ 0.000001	\$ 0.000001
	2,479	\$ 10,739	8,568,464,579			

ACE Project Transmission Enhancement Charge - TEC Surcharge

	Rate Class							
	<u>RS</u>	<u>MGS Secondary &</u>		<u>AGS Secondary</u>	<u>AGS Primary</u>	<u>TGS</u>	<u>SPL/CSL</u>	<u>DDC</u>
		<u>MGS-SEVC</u>	<u>MGS Primary</u>					
VEPCo	0.000367	0.000278	0.000256	0.000179	0.000156	0.000133	-	0.000114
TrAILCo	0.000300	0.000250	0.000170	0.000173	0.000138	0.000101	-	0.000104
PSE&G	0.003256	0.002478	0.002276	0.001591	0.001385	0.001184	-	0.001018
PATH	0.000010	0.000007	0.000006	0.000004	0.000004	0.000003	-	0.000003
PPL	0.000090	0.000068	0.000063	0.000044	0.000038	0.000033	-	0.000028
PECO	0.000211	0.000175	0.000119	0.000123	0.000097	0.000071	-	0.000074
Pepco	0.000021	0.000018	0.000013	0.000013	0.000010	0.000007	-	0.000007
MAIT	0.000042	0.000032	0.000029	0.000020	0.000018	0.000015	-	0.000013
JCP&L	0.000003	0.000002	0.000002	0.000001	0.000001	0.000001	-	0.000001
EL05-121	0.000019	0.000015	0.000013	0.000010	0.000009	0.000006	-	0.000006
Delmarva	0.000009	0.000007	0.000005	0.000005	0.000004	0.000003	-	0.000003
BG&E	0.000049	0.000041	0.000028	0.000029	0.000022	0.000017	-	0.000017
AEP - East	0.000081	0.000062	0.000057	0.000039	0.000034	0.000030	-	0.000026
Silver Run	0.000325	0.000247	0.000227	0.000159	0.000139	0.000118	-	0.000101
NIPSCO	0.000003	0.000002	0.000002	0.000002	0.000001	0.000001	-	0.000001
CW Edison	-	-	-	-	-	-	-	-
ER18-680 and Form 715	-	-	-	-	-	-	-	-
SFC	0.000004	0.000003	0.000003	0.000002	0.000002	0.000002	-	0.000001
PSEG ROE-TEC	(0.000112)	(0.000094)	(0.000064)	(0.000065)	(0.000052)	(0.000038)	-	(0.000039)
Total Effective @ 4/1/2022	0.004678	0.003591	0.003205	0.002329	0.002006	0.001687	-	0.001478
MGS Secondary &								
VEPCo	0.000367	0.000278	0.000256	0.000179	0.000156	0.000133	-	0.000114
TrAILCo	0.000275	0.000192	0.000131	0.000138	0.000113	0.000104	-	0.000082
PSE&G	0.003256	0.002478	0.002276	0.001591	0.001385	0.001184	-	0.001018
PATH	0.000010	0.000007	0.000006	0.000004	0.000004	0.000003	-	0.000003
PPL	0.000095	0.000066	0.000046	0.000048	0.000039	0.000036	-	0.000029
PECO	0.000216	0.000150	0.000103	0.000109	0.000088	0.000083	-	0.000065
Pepco	0.000022	0.000016	0.000011	0.000012	0.000010	0.000009	-	0.000006
MAIT	0.000042	0.000032	0.000029	0.000020	0.000018	0.000015	-	0.000013
JCP&L	0.000003	0.000002	0.000002	0.000001	0.000001	0.000001	-	0.000001
EL05-121	0.000019	0.000015	0.000013	0.000010	0.000009	0.000006	-	0.000006
Delmarva	0.000010	0.000006	0.000004	0.000004	0.000004	0.000003	-	0.000003
BG&E	0.000041	0.000028	0.000019	0.000020	0.000017	0.000015	-	0.000012
AEP - East	0.000081	0.000062	0.000057	0.000039	0.000034	0.000030	-	0.000026
Silver Run	0.000325	0.000247	0.000227	0.000159	0.000139	0.000118	-	0.000101
NIPSCO	0.000003	0.000002	0.000002	0.000002	0.000001	0.000001	-	0.000001
CW Edison	-	-	-	-	-	-	-	-
ER18-680 and Form 715	-	-	-	-	-	-	-	-
SFC	0.000004	0.000003	0.000003	0.000002	0.000002	0.000002	-	0.000001
PSEG ROE-TEC	(0.000112)	(0.000094)	(0.000064)	(0.000065)	(0.000052)	(0.000038)	-	(0.000039)
Duquesne	0.000002	0.000001	0.000001	0.000001	0.000001	0.000001	-	0.000001
Total Proposed TEC Effective 9/1/2022	0.004659	0.003491	0.003122	0.002274	0.001969	0.001706	-	0.001443

Attachment 4B – Translation of 2022/2023 Schedule 12 Charges into Rates – PSE&G

Transmission Charge Adjustment - BGS-RSCP

Attachment 4B PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for Allegheny TrAILCo Projects

TEC Charges for June 2022 - May 2023	\$ 5,131,471.09								
PSE&G Zonal Transmission Load for Effective Yr. (MW)	10,064.1								
Term (Months)	12								
OATT rate	\$ 42.49 /MW/month								
converted to \$/MW/yr =	\$ 509.88 /MW/yr								
all values show w/o NJ SUT									
	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL	
Trans Obl - MW	4,775.1	20.0	64.5	0.0	0.0	3.0	0.0	0.0	
Total Annual Energy - MWh	12,642,216.8	91,595.6	78,629.1	575.0	11.0	7,994.8	141,581.0	300,241.0	
Energy Charge in \$/MWh in \$/kWh - rounded to 6 places	\$ 0.192587 \$ 0.000193	\$ 0.111333 \$ 0.000111	\$ 0.418258 \$ 0.000418	\$ - \$ -	\$ - \$ -	\$ 0.191329 \$ 0.000191	\$ - \$ -	\$ - \$ -	

Line #

1 Total BGS-RSCP Trans Obl	7,416.1 MW		= sum of BGS-RSCP eligible Trans Obl adjusted for migration
2 Total BGS-RSCP energy @ cust	24,088,681.0 MWh		= sum of BGS-RSCP eligible kWh @ cust adjusted for migration
3 Total BGS-RSCP energy @ trans nodes	25,397,539.5 MWh	unrounded	= (2) * loss expansion factor to trans node
4 Change in OATT rate * total Trans Obl	\$ 3,781,321	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5 Change in Average Supplier Payment Rate	\$ 0.1489 /MWh	unrounded	= (4) / (3)
6 Change in Average Supplier Payment Rate	\$ 0.15 /MWh	rounded to 2 decimal places	= (5) rounded to 2 decimal places
7 Proposed Total Supplier Payment	\$ 3,809,631	unrounded	= (6) * (3)
8 Difference due to rounding	\$ 28,310	unrounded	= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP

Attachment 4B PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for BG&E

TEC Charges for June 2022 - May 2023	\$ 484,837.38								
PSE&G Zonal Transmission Load for Effective Yr. (MW)	10,064.1								
Term (Months)	12								
OATT rate	\$ 4.01 /MW/month								
converted to \$/MW/yr =	\$ 48.12 /MW/yr								
							all values show w/o NJ SUT		
	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL	
Trans Obl - MW	4,775.1	20.0	64.5	0.0	0.0	3.0	0.0	0.0	
Total Annual Energy - MWh	12,642,216.8	91,595.6	78,629.1	575.0	11.0	7,994.8	141,581.0	300,241.0	
Energy Charge in \$/MWh in \$/kWh - rounded to 6 places	\$ 0.018175 \$ 0.000018	\$ 0.010507 \$ 0.000011	\$ 0.039473 \$ 0.000039	\$ - \$ -	\$ - \$ -	\$ 0.018057 \$ 0.000018	\$ - \$ -	\$ - \$ -	

Line #

1 Total BGS-RSCP Trans Obl	7,416.1 MW		= sum of BGS-RSCP eligible Trans Obl adjusted for migration
2 Total BGS-RSCP energy @ cust	24,088,681.0 MWh		= sum of BGS-RSCP eligible kWh @ cust adjusted for migration
3 Total BGS-RSCP energy @ trans nodes	25,397,539.5 MWh	unrounded	= (2) * loss expansion factor to trans node
4 Change in OATT rate * total Trans Obl	\$ 356,863	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5 Change in Average Supplier Payment Rate	\$ 0.0141 /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	\$ 253,975	unrounded	= (6) * (3)
8 Difference due to rounding	\$ (102,887)	unrounded	= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP

Attachment 4B PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for PPL Projects

TEC Charges for June 2022 - May 2023

\$ 22,160,806.11

PSE&G Zonal Transmission Load for Effective Yr. (MW)

10,064.1

Term (Months)

12

OATT rate

\$ 183.50 /MW/month

converted to \$/MW/yr = \$ 2,202.00 /MW/yr

all values show w/o NJ SUT

	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL
Trans Obl - MW	4,775.1	20.0	64.5	0.0	0.0	3.0	0.0	0.0
Total Annual Energy - MWh	12,642,216.8	91,595.6	78,629.1	575.0	11.0	7,994.8	141,581.0	300,241.0
Energy Charge <i>in \$/MWh</i> <i>in \$/kWh - rounded to 6 places</i>	\$ 0.831719	\$ 0.480809	\$ 1.806316	- \$	- \$	\$ 0.826284	- \$	- \$
	\$ 0.000832	\$ 0.000481	\$ 0.001806	- \$	- \$	\$ 0.000826	- \$	- \$

Line #

1	Total BGS-RSCP Trans Obl	7,416.1 MW	= sum of BGS-RSCP eligible Trans Obl adjusted for migration
2	Total BGS-RSCP energy @ cust	24,088,681.0 MWh	= sum of BGS-RSCP eligible kWh @ cust adjusted for migration
3	Total BGS-RSCP energy @ trans nodes	25,397,539.5 MWh	= (2) * loss expansion factor to trans node
4	Change in OATT rate * total Trans Obl	\$ 16,330,252	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5	Change in Average Supplier Payment Rate	\$ 0.6430 /MWh	= (4) / (3)
6	Change in Average Supplier Payment Rate	\$ 0.64 /MWh	= (5) rounded to 2 decimal places
7	Proposed Total Supplier Payment	\$ 16,254,425	= (6) * (3)
8	Difference due to rounding	\$ (75,827)	= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP

Attachment 4B PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for ACE Projects

TEC Charges for June 2022 - May 2023	\$ 1,029,122.36								
PSE&G Zonal Transmission Load for Effective Yr. (MW)	10,064.1								
Term (Months)	12								
OATT rate	\$ 8.52 /MW/month								
converted to \$/MW/yr = \$ 102.24 /MW/yr									
all values show w/o NJ SUT									
	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL	
Trans Obl - MW	4,775.1	20.0	64.5	0.0	0.0	3.0	0.0	0.0	
Total Annual Energy - MWh	12,642,216.8	91,595.6	78,629.1	575.0	11.0	7,994.8	141,581.0	300,241.0	
Energy Charge <i>in \$/MWh in \$/kWh - rounded to 6 places</i>	\$ 0.038617 \$ 0.000039	\$ 0.022324 \$ 0.000022	\$ 0.083868 \$ 0.000084	\$ - \$ -	\$ - \$ -	\$ 0.038365 \$ 0.000038	\$ - \$ -	\$ - \$ -	
Line #									
1 Total BGS-RSCP Trans Obl	7,416.1 MW								= sum of BGS-RSCP eligible Trans Obl adjusted for migration
2 Total BGS-RSCP energy @ cust	24,088,681.0 MWh								= sum of BGS-RSCP eligible kWh @ cust adjusted for migration
3 Total BGS-RSCP energy @ trans nodes	25,397,539.5 MWh		unrounded						= (2) * loss expansion factor to trans node
4 Change in OATT rate * total Trans Obl	\$ 758,222		unrounded						= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5 Change in Average Supplier Payment Rate	\$ 0.0299 /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	\$ 761,926		unrounded						= (6) * (3)
8 Difference due to rounding	\$ 3,704		unrounded						= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP

Attachment 4B PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for Delmarva Projects

TEC Charges for June 2022 - May 2023	\$ 150,846.44								
PSE&G Zonal Transmission Load for Effective Yr. (MW)		10,064.1							
Term (Months)		12							
OATT rate	\$ 1.25 /MW/month								
converted to \$/MW/yr = \$ 15.00 /MW/yr									
all values show w/o NJ SUT									
	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL	
Trans Obl - MW	4,775.1	20.0	64.5	0.0	0.0	3.0	0.0	0.0	
Total Annual Energy - MWh	12,642,216.8	91,595.6	78,629.1	575.0	11.0	7,994.8	141,581.0	300,241.0	
Energy charge in \$/MWh in \$/kWh - rounded to 6 places	\$ 0.005666 \$ 0.000006	\$ 0.003275 \$ 0.000003	\$ 0.012305 \$ 0.000012	\$ - \$ -	\$ - \$ -	\$ 0.005629 \$ 0.000006	\$ - \$ -	\$ - \$ -	

Line #

1 Total BGS-RSCP eligible Trans Obl	7,416.1 MW		= sum of BGS-RSCP eligible Trans Obl
2 Total BGS-RSCP eligible energy @ cust	24,088,681.0 MWh		= sum of BGS-RSCP eligible kWh @ cust
3 Total BGS-RSCP eligible energy @ trans nodes	25,397,539.5 MWh	unrounded	= (2) * loss expansion factor to trans node
4 Change in OATT rate * total Trans Obl	\$ 111,242	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5 Change in Average Supplier Payment Rate	\$ 0.0044 /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	\$ (111,242)	unrounded	= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP

Attachment 4B PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for PEPCO Projects

TEC Charges for June 2022 - May 2023	\$ 321,993.54								
PSE&G Zonal Transmission Load for Effective Yr. (MW)	10,064.1								
Term (Months)	12								
OATT rate	\$ 2.67 /MW/month								
converted to \$/MW/yr =	\$ 32.04 /MW/yr								
							all values show w/o NJ SUT		
	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL	
Trans Obl - MW	4,775.1	20.0	64.5	0.0	0.0	3.0	0.0	0.0	
Total Annual Energy - MWh	12,642,216.8	91,595.6	78,629.1	575.0	11.0	7,994.8	141,581.0	300,241.0	
Energy Charge <i>in \$/MWh</i> <i>in \$/kWh - rounded to 6 places</i>	\$ 0.012102	\$ 0.006996	\$ 0.026283	- \$	- \$	\$ 0.012023	- \$	- \$	-
	\$ 0.000012	\$ 0.000007	\$ 0.000026	- \$	- \$	\$ 0.000012	- \$	- \$	-
Line #									
1 Total BGS-RSCP Trans Obl	7,416.1	MW							= sum of BGS-RSCP eligible Trans Obl adjusted for migration
2 Total BGS-RSCP energy @ cust	24,088,681.0	MWh							= sum of BGS-RSCP eligible kWh @ cust adjusted for migration
3 Total BGS-RSCP energy @ trans nodes	25,397,539.5	MWh	unrounded						= (2) * loss expansion factor to trans node
4 Change in OATT rate * total Trans Obl	\$ 237,612		unrounded						= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5 Change in Average Supplier Payment Rate	\$ 0.0094	/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	\$ 253,975		unrounded						= (6) * (3)
8 Difference due to rounding	\$ 16,364		unrounded						= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP

Attachment 4B PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023
Calculation of costs and monthly PJM charges for PECO Energy Company Transmission Projects

TEC Charges for June 2022 - May 2023	\$ 2,407,268.96								
PSE&G Zonal Transmission Load for Effective Yr. (MW)	10,064.1								
Term (Months)	12								
OATT rate	\$ 19.93 /MW/month								
converted to \$/MW/yr =	\$ 239.16 /MW/yr								
all values show w/o NJ SUT									
	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL	
Trans Obl - MW	4,775.1	20.0	64.5	0.0	0.0	3.0	0.0	0.0	
Total Annual Energy - MWh	12,642,216.8	91,595.6	78,629.1	575.0	11.0	7,994.8	141,581.0	300,241.0	
Energy Charge in \$/MWh in \$/kWh - rounded to 6 places	\$ 0.090333 \$ 0.000090	\$ 0.052221 \$ 0.000052	\$ 0.196185 \$ 0.000196	\$ - \$ -	\$ - \$ -	\$ 0.089743 \$ 0.000090	\$ - \$ -	\$ - \$ -	

Line #

1 Total BGS-RSCP Trans Obl	7,416.1 MW		= sum of BGS-RSCP eligible Trans Obl adjusted for migration
2 Total BGS-RSCP energy @ cust	24,088,681.0 MWh		= sum of BGS-RSCP eligible kWh @ cust adjusted for migration
3 Total BGS-RSCP energy @ trans nodes	25,397,539.5 MWh	unrounded	= (2) * loss expansion factor to trans node
4 Change in OATT rate * total Trans Obl	\$ 1,773,634	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5 Change in Average Supplier Payment Rate	\$ 0.0698 /MWh	unrounded	= (4) / (3)
6 Change in Average Supplier Payment Rate	\$ 0.07 /MWh	rounded to 2 decimal places	= (5) rounded to 2 decimal places
7 Proposed Total Supplier Payment	\$ 1,777,828	unrounded	= (6) * (3)
8 Difference due to rounding	\$ 4,193	unrounded	= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP

Attachment 4B PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for Commonwealth Edison

TEC Charges for June 2022 - May 2023	\$ 14,789.31							
PSE&G Zonal Transmission Load for Effective Yr. (MW)	10,064.1							
Term (Months)	12							
OATT rate	\$ 0.12 /MW/month							
converted to \$/MW/yr =	\$ 1.44 /MW/yr							
								all values show w/o NJ SUT
	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL
Trans Obl - MW	4,775.1	20.0	64.5	0.0	0.0	3.0	0.0	0.0
Total Annual Energy - MWh	12,642,216.8	91,595.6	78,629.1	575.0	11.0	7,994.8	141,581.0	300,241.0
Energy charge <i>in \$/MWh</i> <i>in \$/kWh - rounded to 6 places</i>	\$ 0.000544	\$ 0.000314	\$ 0.001181	\$ -	\$ 0.000540	\$ -	\$ -	\$ -
	\$ 0.000001	\$ -	\$ 0.000001	\$ -	\$ 0.000001	\$ -	\$ -	\$ -

Line #

1 Total BGS-RSCP eligible Trans Obl	7,416.1 MW		= sum of BGS-RSCP eligible Trans Obl
2 Total BGS-RSCP eligible energy @ cust	24,088,681.0 MWh		= sum of BGS-RSCP eligible kWh @ cust
3 Total BGS-RSCP eligible energy @ trans nodes	25,397,539.5 MWh	unrounded	= (2) * loss expansion factor to trans node
4 Change in OATT rate * total Trans Obl	\$ 10,679.1840	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5 Change in Average Supplier Payment Rate	\$ 0.00 /MWh	unrounded	= (4) / (3)
6 Change in Average Supplier Payment Rate	0 /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	\$ (10,679)	unrounded	= (7) - (4)

Transmission Charge Adjustment - BGS-RSCP

Attachment 4B PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for Duquesne

TEC Charges for June 2022 - May 2023	\$ 39,711.33								
PSE&G Zonal Transmission Load for Effective Yr. (MW)	10,064.1								
Term (Months)	12								
OATT rate	\$ 0.33 /MW/month								
converted to \$/MW/yr =	\$ 3.96 /MW/yr								
							all values show w/o NJ SUT		
	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL	
Trans Obl - MW	4,775.1	20.0	64.5	0.0	0.0	3.0	0.0	0.0	
Total Annual Energy - MWh	12,642,216.8	91,595.6	78,629.1	575.0	11.0	7,994.8	141,581.0	300,241.0	
Energy charge <i>in \$/MWh in \$/kWh - rounded to 6 places</i>	\$ 0.001496 \$ 0.000001	\$ 0.000865 \$ 0.000001	\$ 0.003248 \$ 0.000003	\$ - \$ -	\$ - \$ -	\$ 0.001486 \$ 0.000001	\$ - \$ -	\$ - \$ -	

Line #

1 Total BGS-RSCP eligible Trans Obl	7,416.1 MW		= sum of BGS-RSCP eligible Trans Obl
2 Total BGS-RSCP eligible energy @ cust	24,088,681.0 MWh		= sum of BGS-RSCP eligible kWh @ cust
3 Total BGS-RSCP eligible energy @ trans nodes	25,397,539.5 MWh	unrounded	= (2) * loss expansion factor to trans node
4 Change in OATT rate * total Trans Obl	\$ 29,367.7560	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl
5 Change in Average Supplier Payment Rate	\$ 0.00 /MWh	unrounded	= (4) / (3)
6 Change in Average Supplier Payment Rate	0 /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	\$ (29,368)	unrounded	= (7) - (4)

Attachment 4C – Translation of 2022/2023 Schedule 12 Charges into Rates – JCP&L

Attachment 4c - JCP&L Translation of Schedule 12 Transmission Enhancement Charges into Customer Rates (Riders RSCP and CIEP)

Jersey Central Power & Light Company

Proposed Trailco Project Transmission Enhancement Charge (Trailco-TEC Surcharge) effective September 1, 2022

To reflect FERC-approved Trailco Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 2022 - May 2023

2022 Average Monthly Trailco-TEC Costs Allocated to JCP&L Zone	\$303,085.84	(1)
2022 JCP&L Zone Transmission Peak Load (MW)	6,169.10	
Trailco-Transmission Enhancement Rate (\$/MW-month)	\$49.13	

BGS by Voltage Level	Retail Transmission Obligation (MW)	Allocated Cost Recovery (\$)(2)	BGS Eligible Sales (kWh)(3)	September 1, 2022	
				Trailco-TEC Surcharge (\$/kWh)	Trailco-TEC Surcharge w/ SUT(\$/kWh)
Secondary (excluding lighting)	5,413.7	\$3,191,669	16,394,489,049	\$0.000195	\$0.000208
Primary	318.5	\$187,790	1,618,140,790	\$0.000116	\$0.000124
Transmission @ 34.5 kV	270.4	\$159,409	1,506,974,917	\$0.000106	\$0.000113
Transmission @ 230 kV	18.6	\$10,966	354,832,301	\$0.000031	\$0.000033
Total	6,021.2	\$3,549,835	19,874,437,057		

(1) Cost Allocation of Trailco Project Schedule 12 Charges to JCP&L Zone for 2022

(2) Based on Trailco Project costs from June 2022 through May 2023

(3) September 2022 through August 2023

BGS-RSCP Transmission Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales June through May @ Customer	15,600,538 MWH
2	BGS-RSCP Eligible Sales June through May @ Transmission Node	17,289,608 MWH
3	BGS-RSCP Eligible Transmission Obligation	4,789.80 MW
4	Trailco-Transmission Enhancement Costs	\$2,823,874 = Line 3 x \$49.13 x 12
5	Change to Transmission Payment Rates \$/MWH (rounded to 2 decimals)	\$0.16 = Line 4 / Line 2

Attachment 4c - JCP&L Translation of Schedule 12 Transmission Enhancement Charges into Customer Rates (Riders RSCP and CIEP)

Jersey Central Power & Light Company

Proposed BG&E Project Transmission Enhancement Charge (BG&E-TEC Surcharge) effective September 1, 2022

To reflect FERC-approved BG&E Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 2022 - May 2023

2022 Average Monthly BG&E-TEC Costs Allocated to JCP&L Zone	\$23,381.92	(1)
2022 JCP&L Zone Transmission Peak Load (MW)	6,169.10	
BG&E-Transmission Enhancement Rate (\$/MW-month)	\$3.79	

BGS by Voltage Level	Retail Transmission Obligation (MW)	Allocated Cost Recovery (\$)(2)	BGS Eligible Sales (kWh)(3)	September 1, 2022	
				BG&E-TEC Surcharge (\$/kWh)	BG&E-TEC Surcharge w/ SUT(\$/kWh)
Secondary (excluding lighting)	5,413.7	\$246,225	16,394,489,049	\$0.000015	\$0.000016
Primary	318.5	\$14,487	1,618,140,790	\$0.000009	\$0.000010
Transmission @ 34.5 kV	270.4	\$12,298	1,506,974,917	\$0.000008	\$0.000009
Transmission @ 230 kV	18.6	\$846	354,832,301	\$0.000002	\$0.000002
Total	6,021.2	\$273,856	19,874,437,057		

(1) Cost Allocation of BG&E Project Schedule 12 Charges to JCP&L Zone for 2022

(2) Based on BG&E Project costs from June 2022 through May 2023

(3) September 2022 through August 2023

BGS-RSCP Transmission Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales June through May @ Customer	15,600,538 MWH
2	BGS-RSCP Eligible Sales June through May @ Transmission Node	17,289,608 MWH
3	BGS-RSCP Eligible Transmission Obligation	4,789.80 MW
4	BG&E-Transmission Enhancement Costs	\$217,840 = Line 3 x \$3.79 x 12
5	Change to Transmission Payment Rates \$/MWH (rounded to 2 decimals)	\$0.01 = Line 4 / Line 2

Attachment 4c - JCP&L Translation of Schedule 12 Transmission Enhancement Charges into Customer Rates (Riders RSCP and CIEP)

Jersey Central Power & Light Company

Proposed PPL Project Transmission Enhancement Charge (PPL-TEC Surcharge) effective September 1, 2022

To reflect FERC-approved PPL Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 2022 - May 2023

2022 Average Monthly PPL-TEC Costs Allocated to JCP&L Zone	\$938,471.92	(1)
2022 JCP&L Zone Transmission Peak Load (MW)	6,169.10	
PPL-Transmission Enhancement Rate (\$/MW-month)	\$152.12	

September 1, 2022

BGS by Voltage Level	Retail Transmission Obligation (MW)	Allocated Cost Recovery (\$)(2)	BGS Eligible Sales (kWh)(3)	PPL-TEC Surcharge (\$/kWh)	PPL-TEC Surcharge w/ SUT(\$/kWh)
Secondary (excluding lighting)	5,413.7	\$9,882,652	16,394,489,049	\$0.000603	\$0.000643
Primary	318.5	\$581,472	1,618,140,790	\$0.000359	\$0.000383
Transmission @ 34.5 kV	270.4	\$493,593	1,506,974,917	\$0.000328	\$0.000350
Transmission @ 230 kV	18.6	\$33,954	354,832,301	\$0.000096	\$0.000102
Total	6,021.2	\$10,991,672	19,874,437,057		

(1) Cost Allocation of PPL Project Schedule 12 Charges to JCP&L Zone for 2022

(2) Based on PPL Project costs from June 2022 through May 2023

(3) September 2022 through August 2023

BGS-RSCP Transmission Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales June through May @ Customer	15,600,538 MWH
2	BGS-RSCP Eligible Sales June through May @ Transmission Node	17,289,608 MWH
3	BGS-RSCP Eligible Transmission Obligation	4,789.80 MW
4	PPL-Transmission Enhancement Costs	\$8,743,493 = Line 3 x \$152.12 x 12
5	Change to Transmission Payment Rates \$/MWH (rounded to 2 decimals)	\$0.51 = Line 4 / Line 2

Attachment 4c - JCP&L Translation of Schedule 12 Transmission Enhancement Charges into Customer Rates (Riders RSCP and CIEP)

Jersey Central Power & Light Company

Proposed ACE Project Transmission Enhancement Charge (ACE-TEC Surcharge) effective September 1, 2022

To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 2022 - May 2023

2022 Average Monthly ACE-TEC Costs Allocated to JCP&L Zone	\$142,907.99	(1)
2022 JCP&L Zone Transmission Peak Load (MW)	6,169.10	
ACE-Transmission Enhancement Rate (\$/MW-month)	\$23.17	

September 1, 2022

BGS by Voltage Level	Retail Transmission Obligation (MW)	Allocated Cost Recovery (\$)(2)	BGS Eligible Sales (kWh)(3)	ACE-TEC Surcharge (\$/kWh)	ACE-TEC Surcharge w/ SUT(\$/kWh)
Secondary (excluding lighting)	5,413.7	\$1,504,904	16,394,489,049	\$0.000092	\$0.000098
Primary	318.5	\$88,545	1,618,140,790	\$0.000055	\$0.000059
Transmission @ 34.5 kV	270.4	\$75,163	1,506,974,917	\$0.000050	\$0.000053
Transmission @ 230 kV	18.6	\$5,170	354,832,301	\$0.000015	\$0.000016
Total	6,021.2	\$1,673,782	19,874,437,057		

(1) Cost Allocation of ACE Project Schedule 12 Charges to JCP&L Zone for 2022

(2) Based on ACE Project costs from June 2022 through May 2023

(3) September 2022 through August 2023

BGS-RSCP Transmission Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales June through May @ Customer	15,600,538 MWH
2	BGS-RSCP Eligible Sales June through May @ Transmission Node	17,289,608 MWH
3	BGS-RSCP Eligible Transmission Obligation	4,789.80 MW
4	ACE-Transmission Enhancement Costs	\$1,331,756 = Line 3 x \$23.17 x 12
5	Change to Transmission Payment Rates \$/MWH (rounded to 2 decimals)	\$0.08 = Line 4 / Line 2

Attachment 4c - JCP&L Translation of Schedule 12 Transmission Enhancement Charges into Customer Rates (Riders RSCP and CIEP)

Jersey Central Power & Light Company

Proposed Delmarva Project Transmission Enhancement Charge (Delmarva-TEC Surcharge) effective September 1, 2022

To reflect FERC-approved Delmarva Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 2022 - May 2023

2022 Average Monthly Delmarva-TEC Costs Allocated to JCP&L Zone	\$8,284.68	(1)
2022 JCP&L Zone Transmission Peak Load (MW)	6,169.10	
Delmarva-Transmission Enhancement Rate (\$/MW-month)	\$1.34	

BGS by Voltage Level	Retail 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)	5,413.7	\$87,242	16,394,489,049	\$0.000005	\$0.000005
Primary	318.5	\$5,133	1,618,140,790	\$0.000003	\$0.000003
Transmission @ 34.5 kV	270.4	\$4,357	1,506,974,917	\$0.000003	\$0.000003
Transmission @ 230 kV	18.6	\$300	354,832,301	\$0.000001	\$0.000001
Total	6,021.2	\$97,033	19,874,437,057		

(1) Cost Allocation of Delmarva Project Schedule 12 Charges to JCP&L Zone for 2022

(2) Based on Delmarva Project costs from June 2022 through May 2023

(3) September 2022 through August 2023

BGS-RSCP Transmission Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales June through May @ Customer	15,600,538 MWH
2	BGS-RSCP Eligible Sales June through May @ Transmission Node	17,289,608 MWH
3	BGS-RSCP Eligible Transmission Obligation	4,789.80 MW
4	Delmarva-Transmission Enhancement Costs	\$77,020 = Line 3 x \$1.34 x 12
5	Change to Transmission Payment Rates \$/MWH (rounded to 2 decimals)	\$0.00 = Line 4 / Line 2

Attachment 4c - JCP&L Translation of Schedule 12 Transmission Enhancement Charges into Customer Rates (Riders RSCP and CIEP)

Jersey Central Power & Light Company

Proposed PEPCO Project Transmission Enhancement Charge (PEPCO-TEC Surcharge) effective September 1, 2022

To reflect FERC-approved PEPCO Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 2022 - May 2023

2022 Average Monthly PEPCO-TEC Costs Allocated to JCP&L Zone	\$18,403.99	(1)
2022 JCP&L Zone Transmission Peak Load (MW)	6,169.10	
PEPCO-Transmission Enhancement Rate (\$/MW-month)	\$2.98	

BGS by Voltage Level	Retail Transmission Obligation (MW)	Allocated Cost Recovery (\$) (2)	BGS Eligible Sales (kWh) (3)	PEPCO-TEC Surcharge (\$/kWh)	PEPCO-TEC Surcharge w/ SUT(\$/kWh)
Secondary (excluding lighting)	5,413.7	\$193,805	16,394,489,049	\$0.000012	\$0.000013
Primary	318.5	\$11,403	1,618,140,790	\$0.000007	\$0.000007
Transmission @ 34.5 kV	270.4	\$9,680	1,506,974,917	\$0.000006	\$0.000006
Transmission @ 230 kV	18.6	\$666	354,832,301	\$0.000002	\$0.000002
Total	6,021.2	\$215,553	19,874,437,057		

(1) Cost Allocation of PEPCO Project Schedule 12 Charges to JCP&L Zone for 2022

(2) Based on PEPCO Project costs from June 2022 through May 2023

(3) September 2022 through August 2023

BGS-RSCP Transmission Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales June through May @ Customer	15,600,538 MWH
2	BGS-RSCP Eligible Sales June through May @ Transmission Node	17,289,608 MWH
3	BGS-RSCP Eligible Transmission Obligation	4,789.80 MW
4	PEPCO-Transmission Enhancement Costs	\$171,283 = Line 3 x \$2.98 x 12
5	Change to Transmission Payment Rates \$/MWH (rounded to 2 decimals)	\$0.01 = Line 4 / Line 2

Attachment 4c - JCP&L Translation of Schedule 12 Transmission Enhancement Charges into Customer Rates (Riders RSCP and CIEP)

Jersey Central Power & Light Company

Proposed PECO Project Transmission Enhancement Charge (PECO-TEC Surcharge) effective September 1, 2022

To reflect FERC-approved PECO Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 2022 - May 2023

2022 Average Monthly PECO-TEC Costs Allocated to JCP&L Zone	\$99,288.64	(1)
2022 JCP&L Zone Transmission Peak Load (MW)	6,169.10	
PECO-Transmission Enhancement Rate (\$/MW-month)	\$16.09	

BGS by Voltage Level	Retail Transmission Obligation (MW)	Allocated Cost Recovery (\$)(2)	BGS Eligible Sales (kWh)(3)	PECO-TEC Surcharge (\$/kWh)	PECO-TEC Surcharge w/ SUT(\$/kWh)
Secondary (excluding lighting)	5,413.7	\$1,045,567	16,394,489,049	\$0.000064	\$0.000068
Primary	318.5	\$61,519	1,618,140,790	\$0.000038	\$0.000041
Transmission @ 34.5 kV	270.4	\$52,221	1,506,974,917	\$0.000035	\$0.000037
Transmission @ 230 kV	18.6	\$3,592	354,832,301	\$0.000010	\$0.000011
Total	6,021.2	\$1,162,899	19,874,437,057		

(1) Cost Allocation of PECO Project Schedule 12 Charges to JCP&L Zone for 2022

(2) Based on PECO Project costs from June 2022 through May 2023

(3) September 2022 through August 2023

BGS-RSCP Transmission Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales June through May @ Customer	15,600,538 MWH
2	BGS-RSCP Eligible Sales June through May @ Transmission Node	17,289,608 MWH
3	BGS-RSCP Eligible Transmission Obligation	4,789.80 MW
4	PECO-Transmission Enhancement Costs	\$924,815 = Line 3 x \$16.09 x 12
5	Change to Transmission Payment Rates \$/MWH (rounded to 2 decimals)	\$0.05 = Line 4 / Line 2

Attachment 4c - JCP&L Translation of Schedule 12 Transmission Enhancement Charges into Customer Rates (Riders RSCP and CIEP)

Jersey Central Power & Light Company

Proposed CW Edison Project Transmission Enhancement Charge (CW Edison-TEC Surcharge) effective September 1, 2022

To reflect FERC-approved CW Edison Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 2022 - May 2023

2022 Average Monthly CW Edison-TEC Costs Allocated to JCP&L Zone	\$547.75	(1)
2022 JCP&L Zone Transmission Peak Load (MW)	6,169.10	
CW Edison-Transmission Enhancement Rate (\$/MW-month)	\$0.09	

BGS by Voltage Level	Retail Transmission Obligation (MW)	Allocated Cost Recovery (\$)(2)	BGS Eligible Sales (kWh)(3)	September 1, 2022	
				CW Edison-TEC Surcharge (\$/kWh)	CW Edison-TEC Surcharge w/ SUT(\$/kWh)
Secondary (excluding lighting)	5,413.7	\$5,768	16,394,489,049	\$0.000000	\$0.000000
Primary	318.5	\$339	1,618,140,790	\$0.000000	\$0.000000
Transmission @ 34.5 kV	270.4	\$288	1,506,974,917	\$0.000000	\$0.000000
Transmission @ 230 kV	18.6	\$20	354,832,301	\$0.000000	\$0.000000
Total	6,021.2	\$6,415	19,874,437,057		

(1) Cost Allocation of CW Edison Project Schedule 12 Charges to JCP&L Zone for 2022

(2) Based on CW Edison Project costs from June 2022 through May 2023

(3) September 2022 through August 2023

BGS-RSCP Transmission Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales June through May @ Customer	15,600,538 MWH
2	BGS-RSCP Eligible Sales June through May @ Transmission Node	17,289,608 MWH
3	BGS-RSCP Eligible Transmission Obligation	4,789.80 MW
4	CW Edison-Transmission Enhancement Costs	\$5,173 = Line 3 x \$0.09 x 12
5	Change to Transmission Payment Rates \$/MWH (rounded to 2 decimals)	\$0.00 = Line 4 / Line 2

Attachment 4c - JCP&L Translation of Schedule 12 Transmission Enhancement Charges into Customer Rates (Riders RSCP and CIEP)

Jersey Central Power & Light Company

Proposed Duquesne Project Transmission Enhancement Charge (Duquesne-TEC Surcharge) effective September 1, 2022

To reflect FERC-approved Duquesne Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective June 2022 - May 2023

2022 Average Monthly Duquesne-TEC Costs Allocated to JCP&L Zone	\$0.00	(1)
2022 JCP&L Zone Transmission Peak Load (MW)	6,169.10	
Duquesne-Transmission Enhancement Rate (\$/MW-month)	\$0.00	

BGS by Voltage Level	Retail Transmission Obligation (MW)	Allocated Cost Recovery (\$) (2)	BGS Eligible Sales (kWh) (3)	Duquesne-TEC Surcharge (\$/kWh)	Duquesne-TEC Surcharge w/ SUT(\$/kWh)
Secondary (excluding lighting)	5,413.7	\$0	16,394,489,049	\$0.000000	\$0.000000
Primary	318.5	\$0	1,618,140,790	\$0.000000	\$0.000000
Transmission @ 34.5 kV	270.4	\$0	1,506,974,917	\$0.000000	\$0.000000
Transmission @ 230 kV	18.6	\$0	354,832,301	\$0.000000	\$0.000000
Total	6,021.2	\$0	19,874,437,057		

(1) Cost Allocation of Duquesne Project Schedule 12 Charges to JCP&L Zone for 2022

(2) Based on Duquesne Project costs from June 2022 through May 2023

(3) September 2022 through August 2023

BGS-RSCP Transmission Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales June through May @ Customer	15,600,538 MWH
2	BGS-RSCP Eligible Sales June through May @ Transmission Node	17,289,608 MWH
3	BGS-RSCP Eligible Transmission Obligation	4,789.80 MW
4	Duquesne-Transmission Enhancement Costs	\$0 = Line 3 x \$0 x 12
5	Change to Transmission Payment Rates \$/MWH (rounded to 2 decimals)	\$0.00 = Line 4 / Line 2

Attachment 4D – Translation of 2022/2023 Schedule 12 Charges into Rates – RECO

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (TrAILCo) effective September 1, 2022
 To reflect FERC-approved TrAILCo Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period June 2022 - May 2023

2022 Average Monthly TrAILCo-TEC Costs Allocated to RECO	\$	17,609	(1)
2022 RECO Zone Transmission Peak Load (MW)		489.5	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	35.97	
SUT		6.625%	

	Col. 1	Col. 2	Col.3=Col.2 x \$17,609 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 September 2022 - August 2023 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1/SC5	320.8	65.53%	\$ 138,459	675,953,000	\$ 0.00020	\$ 0.00021
SC2 Secondary	117.3	23.96%	\$ 50,619	490,902,000	\$ 0.00010	\$ 0.00011
SC2 Primary	15.2	3.11%	\$ 6,574	57,502,000	\$ 0.00011	\$ 0.00012
SC3	0.1	0.02%	\$ 51	328,000	\$ 0.00016	\$ 0.00017
SC4	0.0	0.00%	\$ -	6,629,000	\$ -	\$ -
SC6	0.0	0.00%	\$ -	5,318,000	\$ -	\$ -
SC7	<u>36.1</u>	7.38%	\$ 15,603	<u>225,169,000</u>	\$ 0.00007	\$ 0.00007
Total	489.5 (2)	100.00%	\$ 211,306	1,461,801,000		

(1) Attachment 5A- Cost Allocation of TrAILCo Schedule 12 Charges to RECO Zone for June 2022 - May 2023

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment AdjustmentLine No.

1	BGS-RSCP Eligible Sales Sep - Aug @ cust (RECO Eastern Division)	1,182,864	MWH
2	BGS-RSCP Eligible Sales Sep - Aug @ trans node (RECO Eastern Division)	1,099,367	MWH
3	BGS-RSCP Eligible Transmission Obligation	453	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 195,703.77	= Line 3 x \$35.97 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ 0.18	= Line 4/Line 2

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (BG&E) effective September 1, 2022
To reflect FERC-approved BG&E Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period June 2022 - May 2023

2022 Average Monthly BG&E-TEC Costs Allocated to RECO	\$	1,519	(1)
2022 RECO Zone Transmission Peak Load (MW)		489.5	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	3.10	
SUT		6.625%	

	Col. 1	Col. 2	Col.3=Col.2 x \$1,519 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 September 2022 - August 2023 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1/SC5	320.8	65.53%	\$ 11,944	675,953,000	\$ 0.00002	\$ 0.00002
SC2 Secondary	117.3	23.96%	\$ 4,367	490,902,000	\$ 0.00001	\$ 0.00001
SC2 Primary	15.2	3.11%	\$ 567	57,502,000	\$ 0.00001	\$ 0.00001
SC3	0.1	0.02%	\$ 4	328,000	\$ 0.00001	\$ 0.00001
SC4	0.0	0.00%	\$ -	6,629,000	\$ -	\$ -
SC6	0.0	0.00%	\$ -	5,318,000	\$ -	\$ -
SC7	<u>36.1</u>	7.38%	\$ 1,346	<u>225,169,000</u>	\$ 0.00001	\$ 0.00001
Total	489.5 (2)	100.00%	\$ 18,228	1,461,801,000		

(1) Attachment 5B- Cost Allocation of BG&E Schedule 12 Charges to RECO Zone for June 2022 - May 2023

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales Sep - Aug @ cust (RECO Eastern Division)	1,182,864	MWH
2	BGS-RSCP Eligible Sales Sep - Aug @ trans node (RECO Eastern Division)	1,099,367	MWH
3	BGS-RSCP Eligible Transmission Obligation	453	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 16,866.32	= Line 3 x \$3.1 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ 0.02	= Line 4/Line 2

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (PPL) effective September 1, 2022
To reflect FERC-approved PPL Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period June 2022 - May 2023

2022 Average Monthly PPL-TEC Costs Allocated to RECO	\$	72,242	(1)
2022 RECO Zone Transmission Peak Load (MW)		489.5	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	147.57	
SUT		6.625%	

	Col. 1	Col. 2	Col.3=Col.2 x \$72,242 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 September 2022 - August 2023 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1/SC5	320.8	65.53%	\$ 568,046	675,953,000	\$ 0.00084	\$ 0.00090
SC2 Secondary	117.3	23.96%	\$ 207,670	490,902,000	\$ 0.00042	\$ 0.00045
SC2 Primary	15.2	3.11%	\$ 26,971	57,502,000	\$ 0.00047	\$ 0.00050
SC3	0.1	0.02%	\$ 210	328,000	\$ 0.00064	\$ 0.00068
SC4	0.0	0.00%	\$ -	6,629,000	\$ -	\$ -
SC6	0.0	0.00%	\$ -	5,318,000	\$ -	\$ -
SC7	<u>36.1</u>	7.38%	\$ 64,012	<u>225,169,000</u>	\$ 0.00028	\$ 0.00030
Total	489.5 (2)	100.00%	\$ 866,909	1,461,801,000		

(1) Attachment 6k- Cost Allocation of PPL Schedule 12 Charges to RECO Zone for June 2022 - May 2023

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales Sep - Aug @ cust (RECO Eastern Division)	1,182,864	MWH
2	BGS-RSCP Eligible Sales Sep - Aug @ trans node (RECO Eastern Division)	1,099,367	MWH
3	BGS-RSCP Eligible Transmission Obligation	453	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 802,891.46	= Line 3 x \$147.57 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ 0.73	= Line 4/Line 2

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (ACE) effective September 1, 2022
To reflect FERC-approved ACE Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period June 2022 - May 2023

2022 Average Monthly ACE-TEC Costs Allocated to RECO	\$	2,487	(1)
2022 RECO Zone Transmission Peak Load (MW)		489.5	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	5.08	
SUT		6.625%	

	Col. 1	Col. 2	Col.3=Col.2 x \$2,487 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 September 2022 - August 2023 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1/SC5	320.8	65.53%	\$ 19,556	675,953,000	\$ 0.00003	\$ 0.00003
SC2 Secondary	117.3	23.96%	\$ 7,149	490,902,000	\$ 0.00001	\$ 0.00001
SC2 Primary	15.2	3.11%	\$ 929	57,502,000	\$ 0.00002	\$ 0.00002
SC3	0.1	0.02%	\$ 7	328,000	\$ 0.00002	\$ 0.00002
SC4	0.0	0.00%	\$ -	6,629,000	\$ -	\$ -
SC6	0.0	0.00%	\$ -	5,318,000	\$ -	\$ -
SC7	<u>36.1</u>	7.38%	\$ 2,204	<u>225,169,000</u>	\$ 0.00001	\$ 0.00001
Total	489.5 (2)	100.00%	\$ 29,845	1,461,801,000		

(1) Attachment 5D- Cost Allocation of ACE Schedule 12 Charges to RECO Zone for June 2022 - May 2023

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales Sep - Aug @ cust (RECO Eastern Division)	1,182,864	MWH
2	BGS-RSCP Eligible Sales Sep - Aug @ trans node (RECO Eastern Division)	1,099,367	MWH
3	BGS-RSCP Eligible Transmission Obligation	453	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 27,639.01	= Line 3 x \$5.08 * 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 (Delmarva) effective September 1, 2022
To reflect FERC-approved Delmarva Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period June 2022 - May 2023

2022 Average Monthly Delmarva-TEC Costs Allocated to RECO	\$	392	(1)
2022 RECO Zone Transmission Peak Load (MW)		489.5	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	0.80	
SUT		6.625%	

	Col. 1	Col. 2	Col.3=Col.2 x \$392 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 September 2022 - August 2023 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1/SC5	320.8	65.53%	\$ 3,081	675,953,000	\$ -	\$ -
SC2 Secondary	117.3	23.96%	\$ 1,126	490,902,000	\$ -	\$ -
SC2 Primary	15.2	3.11%	\$ 146	57,502,000	\$ -	\$ -
SC3	0.1	0.02%	\$ 1	328,000	\$ -	\$ -
SC4	0.0	0.00%	\$ -	6,629,000	\$ -	\$ -
SC6	0.0	0.00%	\$ -	5,318,000	\$ -	\$ -
SC7	<u>36.1</u>	7.38%	\$ 347	<u>225,169,000</u>	\$ -	\$ -
Total	489.5 (2)	100.00%	\$ 4,701	1,461,801,000		

(1) Attachment 5E- Cost Allocation of Delmarva Schedule 12 Charges to RECO Zone for June 2022 - May 2023

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales Sep - Aug @ cust (RECO Eastern Division)	1,182,864	MWH
2	BGS-RSCP Eligible Sales Sep - Aug @ trans node (RECO Eastern Division)	1,099,367	MWH
3	BGS-RSCP Eligible Transmission Obligation	453	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 4,352.60	= Line 3 x \$0.8 * 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 (PEPCO) effective September 1, 2022
To reflect FERC-approved PEPCO Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period June 2022 - May 2023

2022 Average Monthly PEPCO-TEC Costs Allocated to RECO	\$	743	(1)
2022 RECO Zone Transmission Peak Load (MW)		489.5	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	1.52	
SUT		6.625%	

	Col. 1	Col. 2	Col.3=Col.2 x \$743 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 September 2022 - August 2023 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1/SC5	320.8	65.53%	\$ 5,839	675,953,000	\$ 0.00001	\$ 0.00001
SC2 Secondary	117.3	23.96%	\$ 2,135	490,902,000	\$ -	\$ -
SC2 Primary	15.2	3.11%	\$ 277	57,502,000	\$ -	\$ -
SC3	0.1	0.02%	\$ 2	328,000	\$ 0.00001	\$ 0.00001
SC4	0.0	0.00%	\$ -	6,629,000	\$ -	\$ -
SC6	0.0	0.00%	\$ -	5,318,000	\$ -	\$ -
SC7	<u>36.1</u>	7.38%	\$ 658	<u>225,169,000</u>	\$ -	\$ -
Total	489.5 (2)	100.00%	\$ 8,911	1,461,801,000		

(1) Attachment 5F- Cost Allocation of PEPCO Schedule 12 Charges to RECO Zone for June 2022 - May 2023

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales Sep - Aug @ cust (RECO Eastern Division)	1,182,864	MWH
2	BGS-RSCP Eligible Sales Sep - Aug @ trans node (RECO Eastern Division)	1,099,367	MWH
3	BGS-RSCP Eligible Transmission Obligation	453	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 8,269.94	= Line 3 x \$1.52 * 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 (PECO) effective September 1, 2022
To reflect FERC-approved PECO Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period June 2022 - May 2023

2022 Average Monthly PECO-TEC Costs Allocated to RECO	\$	7,618	(1)
2022 RECO Zone Transmission Peak Load (MW)		489.5	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	15.56	
SUT		6.625%	

	Col. 1	Col. 2	Col.3=Col.2 x \$7,618 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 September 2022 - August 2023 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1/SC5	320.8	65.53%	\$ 59,900	675,953,000	\$ 0.00009	\$ 0.00010
SC2 Secondary	117.3	23.96%	\$ 21,899	490,902,000	\$ 0.00004	\$ 0.00004
SC2 Primary	15.2	3.11%	\$ 2,844	57,502,000	\$ 0.00005	\$ 0.00005
SC3	0.1	0.02%	\$ 22	328,000	\$ 0.00007	\$ 0.00007
SC4	0.0	0.00%	\$ -	6,629,000	\$ -	\$ -
SC6	0.0	0.00%	\$ -	5,318,000	\$ -	\$ -
SC7	<u>36.1</u>	7.38%	\$ 6,750	<u>225,169,000</u>	\$ 0.00003	\$ 0.00003
Total	489.5 (2)	100.00%	\$ 91,415	1,461,801,000		

(1) Attachment 5G- Cost Allocation of PECO Schedule 12 Charges to RECO Zone for June 2022 - May 2023

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales Sep - Aug @ cust (RECO Eastern Division)	1,182,864	MWH
2	BGS-RSCP Eligible Sales Sep - Aug @ trans node (RECO Eastern Division)	1,099,367	MWH
3	BGS-RSCP Eligible Transmission Obligation	453	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 84,658.07	= Line 3 x \$15.56 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ 0.08	= Line 4/Line 2

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (CW Edison) effective September 1, 2022
To reflect FERC-approved CW Edison Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period June 2022 - May 2022

2022 Average Monthly CW Edison-TEC Costs Allocated to RECO	\$	147	(1)
2022 RECO Zone Transmission Peak Load (MW)		489.5	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	0.30	
SUT		6.625%	

	Col. 1	Col. 2	Col.3=Col.2 x \$147 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 September 2022 - August 2023 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1/SC5	320.8	65.53%	\$ 1,160	675,953,000	\$ -	\$ -
SC2 Secondary	117.3	23.96%	\$ 424	490,902,000	\$ -	\$ -
SC2 Primary	15.2	3.11%	\$ 55	57,502,000	\$ -	\$ -
SC3	0.1	0.02%	\$ -	328,000	\$ -	\$ -
SC4	0.0	0.00%	\$ -	6,629,000	\$ -	\$ -
SC6	0.0	0.00%	\$ -	5,318,000	\$ -	\$ -
SC7	<u>36.1</u>	7.38%	\$ 131	<u>225,169,000</u>	\$ -	\$ -
Total	489.5 (2)	100.00%	\$ 1,770	1,461,801,000		

(1) Attachment 5H- Cost Allocation of CW Edison Schedule 12 Charges to RECO Zone for June 2022 - May 2022

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales Sep - Aug @ cust (RECO Eastern Division)	1,182,864	MWH
2	BGS-RSCP Eligible Sales Sep - Aug @ trans node (RECO Eastern Division)	1,099,367	MWH
3	BGS-RSCP Eligible Transmission Obligation	453	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 1,631.81	= Line 3 x \$0.3 * 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 (Duquesne) effective September 1, 2022
 To reflect FERC-approved Duquesne Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period June 2022 - May 2023

2022 Average Monthly Duquesne-TEC Costs Allocated to RECO	\$	-	(1)
2022 RECO Zone Transmission Peak Load (MW)		489.5	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	-	
SUT		6.625%	

	Col. 1	Col. 2	Col.3=Col.2 x \$000 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 September 2022 - August 2023 (kWh)	Transmission Enhancement Charge (\$/kWh)	Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1/SC5	320.8	65.53%	\$ -	675,953,000	\$ -	\$ -
SC2 Secondary	117.3	23.96%	\$ -	490,902,000	\$ -	\$ -
SC2 Primary	15.2	3.11%	\$ -	57,502,000	\$ -	\$ -
SC3	0.1	0.02%	\$ -	328,000	\$ -	\$ -
SC4	0.0	0.00%	\$ -	6,629,000	\$ -	\$ -
SC6	0.0	0.00%	\$ -	5,318,000	\$ -	\$ -
SC7	<u>36.1</u>	7.38%	\$ -	<u>225,169,000</u>	\$ -	\$ -
Total	489.5 (2)	100.00%	\$ -	1,461,801,000		

(1) Attachment 5A- Cost Allocation of Duquesne Schedule 12 Charges to RECO Zone for June 2022 - May 2023

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment AdjustmentLine No.

1	BGS-RSCP Eligible Sales Sep - Aug @ cust (RECO Eastern Division)	1,182,864	MWH
2	BGS-RSCP Eligible Sales Sep - Aug @ trans node (RECO Eastern Division)	1,099,367	MWH
3	BGS-RSCP Eligible Transmission Obligation	453	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ -	= Line 3 x \$0 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ -	= Line 4/Line 2

Rockland Electric Company

Attachment 4D

Calculation of Transmission Surcharges reflecting proposed changes effective September 1, 2022

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) currently in RECO's rates
 FERC-approved BG&E 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) currently in RECO's rates
 FERC-approved PEPCO 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) currently in RECO's rates
 FERC-approved TrailCo Project Schedule 12 Charges (Schedule 12 PJM OATT)
 FERC-approved VEPco Project Schedule 12 Charges (Schedule 12 PJM OATT) currently in RECO's rates
 FERC-approved MAIT Project Schedule 12 Charges (Schedule 12 PJM OATT) currently in RECO's rates
 FERC-approved JCP&L Project Schedule 12 Charges (Schedule 12 PJM OATT) currently in RECO's rates
 FERC-approved PECO Project Schedule 12 Charges (Schedule 12 PJM OATT)
 FERC-approved CW Edison Project Schedule 12 Charges (Schedule 12 PJM OATT)
 FERC-approved EL05-121 Project Schedule 12 Charges (Schedule 12 PJM OATT) currently in RECO's rates
 FERC-approved Silver Run Project Schedule 12 Charges (Schedule 12 PJM OATT) currently in RECO's rates
 FERC-approved NIPSCO Project Schedule 12 Charges (Schedule 12 PJM OATT) currently in RECO's rates
 FERC-approved SFC Projects Schedule 12 Charges (Schedule 12 PJM OATT) currently in RECO's rates
 FERC-approved PSEG Projects Schedule 12 ROE TEC rates (Schedule 12 PJM OATT) currently in RECO's rates
 FERC-approved PSEG Projects Schedule 12 ROE TEC rates (Schedule 12 PJM OATT) currently in RECO's rates
 FERC-approved Duquesne Project Schedule 12 Charges (Schedule 12 PJM OATT)

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

Transmission Projects	Note	SC1	SC2 Sec	SC2 Pri	SC3	SC4	SC6	SC7
Reliability Must Run	(1)	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
ACE - TEC	(2)	0.00003	0.00001	0.00002	0.00002	0.00000	0.00000	0.00001
AEP-East - TEC	(3)	0.00009	0.00005	0.00005	0.00007	0.00000	0.00000	0.00003
BG&E - TEC	(4)	0.00002	0.00001	0.00001	0.00001	0.00000	0.00000	0.00001
Delmarva - TEC	(5)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
PATH - TEC	(6)	0.00001	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000
PEPCO - TEC	(7)	0.00001	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000
PPL - TEC	(8)	0.00084	0.00042	0.00047	0.00064	0.00000	0.00000	0.00028
PSE&G - TEC	(9)	0.01078	0.00546	0.00619	0.00808	0.00000	0.00000	0.00376
TrAILCo - TEC	(10)	0.00020	0.00010	0.00011	0.00016	0.00000	0.00000	0.00007
VEPCo - TEC	(11)	0.00035	0.00018	0.00020	0.00026	0.00000	0.00000	0.00012
MAIT - TEC	(12)	0.00007	0.00003	0.00004	0.00005	0.00000	0.00000	0.00002
JCP&L - TEC	(13)	0.00029	0.00015	0.00017	0.00022	0.00000	0.00000	0.00010
PECO - TEC	(14)	0.00009	0.00004	0.00005	0.00007	0.00000	0.00000	0.00003
CW Edison-TEC	(15)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
EL05-121	(16)	0.00034	0.00017	0.00020	0.00026	0.00000	0.00000	0.00012
Silver RunTEC	(17)	0.00015	0.00008	0.00009	0.00011	0.00000	0.00000	0.00005
NIPSCO TEC	(18)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
SFC TEC	(19)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
PSE&G ROE - TEC	(20)	(0.00032)	(0.00016)	(0.00020)	(0.00026)	0.00000	0.00000	(0.00012)
Duquesne-TEC	(21)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total (\$/kWh and excl SUT)		\$0.01295	\$0.00654	\$0.00740	\$0.00971	\$0.00000	\$0.00000	\$0.00448
Total (¢/kWh and excl SUT)		1.295 ¢	0.654 ¢	0.740 ¢	0.971 ¢	0.000 ¢	0.000 ¢	0.448 ¢

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

Transmission Projects	Note	SC1	SC2 Sec	SC2 Pri	SC3	SC4	SC6	SC7
Reliability Must Run	(1)	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
ACE - TEC	(2)	0.00003	0.00001	0.00002	0.00002	0.00000	0.00000	0.00001
AEP-East - TEC	(3)	0.00010	0.00005	0.00005	0.00007	0.00000	0.00000	0.00003
BG&E - TEC	(4)	0.00002	0.00001	0.00001	0.00001	0.00000	0.00000	0.00001
Delmarva - TEC	(5)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
PATH - TEC	(6)	0.00001	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000
PEPCO - TEC	(7)	0.00001	0.00000	0.00000	0.00001	0.00000	0.00000	0.00000
PPL - TEC	(8)	0.00009	0.00045	0.00050	0.00068	0.00000	0.00000	0.00030
PSE&G - TEC	(9)	0.01149	0.00582	0.00660	0.00862	0.00000	0.00000	0.00401
TrAILCo - TEC	(10)	0.00021	0.00011	0.00012	0.00017	0.00000	0.00000	0.00007
VEPCo - TEC	(11)	0.00037	0.00019	0.00021	0.00028	0.00000	0.00000	0.00013
MAIT - TEC	(12)	0.00007	0.00003	0.00004	0.00005	0.00000	0.00000	0.00002
JCP&L - TEC	(13)	0.00031	0.00016	0.00018	0.00023	0.00000	0.00000	0.00011
PECO - TEC	(14)	0.00010	0.00004	0.00005	0.00007	0.00000	0.00000	0.00003
CW Edison-TEC	(15)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
EL05-121	(16)	0.00036	0.00018	0.00021	0.00028	0.00000	0.00000	0.00013
Silver Run TEC	(17)	0.00016	0.00009	0.00010	0.00012	0.00000	0.00000	0.00005
NIPSCO TEC	(18)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
SFC - TEC	(19)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
PSE&G ROE - TEC	(20)	(0.00034)	(0.00017)	(0.00021)	(0.00028)	0.00000	0.00000	(0.00013)
Duquesne-TEC	(21)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total (\$/kWh and incl SUT)		\$0.01380	\$0.00697	\$0.00788	\$0.01034	\$0.00000	\$0.00000	\$0.00477
Total (¢/kWh and incl SUT)		1.380 ¢	0.697 ¢	0.788 ¢	1.034 ¢	0.000 ¢	0.000 ¢	0.477 ¢

Notes:

- (1) RMR rates based on allocation by transmission zone.
- (2) ACE-TEC rates calculated in attachment 6D of the joint filing.
- (3) AEP-East-TEC rates pursuant to the Board's Order dated March 9, 2022 in Docket No. ER22010028.
- (4) BG&E-TEC rates calculated in attachment 6B of the joint filing.
- (5) Delmarva-TEC rates calculated in attachment 6E of the joint filing.
- (6) PATH-TEC rates pursuant to the Board's Order dated March 9, 2022 in Docket No. ER22010028.
- (7) PEPCO-TEC rates calculated in attachment 6F of the joint filing.
- (8) PPL-TEC rates calculated in attachment 6C of the joint filing.
- (9) PSE&G-TEC rates pursuant to the Board's Order dated March 9, 2022 in Docket No. ER22010028.
- (10) TrAILCo-TEC rates calculated in attachment 6A of the joint filing.
- (11) VEPCo-TEC rates pursuant to the Board's Order dated March 9, 2022 in Docket No. ER22010028.
- (12) MAIT-TEC rates pursuant to the Board's Order dated March 9, 2022 in Docket No. ER22010028.
- (13) JCP&L-TEC rates pursuant to the Board's Order dated March 9, 2022 in Docket No. ER22010028.
- (14) PECO-TEC rates calculated in attachment 6G of the joint filing.
- (15) CW Edison-TEC rates calculated in attachment 6H of the joint filing.
- (16) EL05-121 rates pursuant to the Board's Order dated March 9, 2022 in Docket No. ER22010028.
- (17) Silver Run-TEC rates pursuant to the Board's Order dated March 9, 2022 in Docket No. ER22010028.
- (18) NIPSCO-TEC rates pursuant to the Board's Order dated March 9, 2022 in Docket No. ER22010028.
- (19) SFC rates pursuant to the Board's Order dated March 9, 2022 in Docket No. ER22010028.
- (20) PSE&G ROE-TEC rates pursuant to the Board's Order dated January 12, 2022 in Docket No. ER21121246.
- (21) Duquesne-TEC rates calculated in attachment 6I of the joint filing.

Attachment 5A – Cost Allocation of 2022/2023 TrailCo Schedule 12 Charges

Attachment 5B – Cost Allocation of 2022/2023 BG&E Schedule 12 Charges

Attachment 5C – Cost Allocation of 2022/2023 PPL Schedule 12 Charges

Attachment 5D – Cost Allocation of 2022/2023 ACE Schedule 12 Charges

Attachment 5E – Cost Allocation of 2022/2023 Delmarva Schedule 12 Charges

Attachment 5F – Cost Allocation of 2022/2023 PEPCO Schedule 12 Charges

Attachment 5G – Cost Allocation of 2022/2023 PECO Schedule 12 Charges

Attachment 5H – Cost Allocation of 2022/2023 CW Edison Schedule 12 Charges

Attachment 5I – Cost Allocation of 2022/2023 Duquesne Schedule 12 Charges

Attachment 5A – Cost Allocation of 2022/2023 TrailCo Schedule 12 Charges

Attachment 5A PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for Allegheny TrAILCo Projects

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2022-May 2023 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	
			per PJM Open Access Transmission Tariff								
502 Junction-Mt Storm-Meadowbrook (>=500kV) - CWIP ¹	b0328.1; b0328.2; b0347.1; b0347.2; b0347.3; b0347.4	\$ 54,156,794.17	1.67%	3.92%	6.40%	0.27%	\$904,418	\$2,122,946	\$3,466,035	\$146,223	\$6,639,623
Wylie Ridge ²	b0218	\$ 2,144,504.74	11.83%	15.56%	0.00%	0.00%	\$253,695	\$333,685	\$0	\$0	\$587,380
Black Oak Meadowbrook 200	b0216	\$ 2,317,090.39	1.67%	3.92%	6.40%	0.27%	\$38,695	\$90,830	\$148,294	\$6,256	\$284,075
MVAR capacitor Replace Kammer	b0559	\$ 327,214.24	1.67%	3.92%	6.40%	0.27%	\$5,464	\$12,827	\$20,942	\$883	\$40,116
765/500 kV TXfmr Doubs TXfmr 2	b0495	\$ 1,832,881.17	1.67%	3.92%	6.40%	0.27%	\$30,609	\$71,849	\$117,304	\$4,949	\$224,711
Doubs TXfmr 3	b0343	\$ 487,347.95	1.85%	0.00%	0.00%	0.00%	\$9,016	\$0	\$0	\$0	\$9,016
Doubs TXfmr 4	b0344	\$ 380,773.38	1.86%	0.00%	0.00%	0.00%	\$7,082	\$0	\$0	\$0	\$7,082
New Osage 138KV Ckt Cap at Grover 230 Upgrade transformer 500/230	b0345	\$ 605,726.54	1.85%	0.00%	0.00%	0.00%	\$11,206	\$0	\$0	\$0	\$11,206
Build a 300 MVAR Switched Shunt at Doubs 500kV	b0674	\$ 2,337,099.75	0.00%	0.00%	0.25%	0.01%	\$0	\$0	\$5,843	\$234	\$6,076
Install 500 MVAR svc at Hunterstown 500kV Sub	b0556	\$ 89,958.82	8.58%	18.16%	26.13%	0.97%	\$7,718	\$16,337	\$23,506	\$873	\$48,434
Install 500 MVAR svc at Hunterstown 500kV Sub	b1153	\$ 2,945,594.54	3.74%	12.57%	20.52%	0.72%	\$110,165	\$370,261	\$604,436	\$21,208	\$1,106,071
Install a new 600 MVAR SVC at Meadowbrook 500 kV	b1803	\$ 255,000.10	1.67%	3.92%	6.40%	0.27%	\$4,259	\$9,996	\$16,320	\$689	\$31,263
Build 250 MVAR svc at Altoona 230kV	b1800	\$ 2,246,867.25	1.67%	3.92%	6.40%	0.27%	\$37,523	\$88,077	\$143,800	\$6,067	\$275,466
Convert Moshannon sub to 4 breaker 230 kv ring bus	b1800_dfax	\$ 2,246,867.25	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
	b1804	\$ 3,803,881.35	1.67%	3.92%	6.40%	0.27%	\$63,525	\$149,112	\$243,448	\$10,270	\$466,356
	b1801	\$ 3,704,050.22	6.47%	8.14%	8.18%	0.33%	\$239,652	\$301,510	\$302,991	\$12,223	\$856,376
	b1964	\$ 781,150.82	0.00%	5.48%	0.00%	0.00%	\$0	\$42,807	\$0	\$0	\$42,807

Attachment 5A PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for Allegheny TrAILCo Projects

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)		
Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2022-May 2023 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix ACE Zone Share ¹ JCP&L Zone Share ¹ PSE&G Zone Share ¹ RE Zone Share ¹ per PJM Open Access Transmission Tariff				Estimated New Jersey EDC Zone Charges by Project ACE Zone Charges JCP&L Zone Charges PSE&G Zone Charges RE Zone Charges Total NJ Zones Charges				
Install 100 MVAR capacitor at Johnstown 230 kV substation	b0555	\$ 147,539.83	8.58%	18.16%	26.13%	0.97%	\$12,659 \$1,735,687	\$26,793 \$3,637,030	\$38,552 \$5,131,471	\$1,431 \$211,306	\$79,435 \$10,715,495

Notes on calculations >>>

$$\begin{aligned} &= (a) * (b) &= (a) * (c) &= (a) * (d) &= (a) * (e) &= (f) + (g) + \\ & & & & & (h) + (i) \end{aligned}$$

(k)	(l)	(m)	(n)	(o)	(p)	
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 22/23	2022TX Peak Load per PJM website	Rate in \$/MW-mo.	2022 Impact (7 months)	2023 Impact (5 months)	2022-2023 Impact (12 months)
PSE&G	\$ 427,622.59	10,064.1	\$ 42.49	\$ 2,993,358	\$ 2,138,113	\$ 5,131,471
JCP&L	\$ 303,085.84	6,169.1	\$ 49.13	\$ 2,121,601	\$ 1,515,429	\$ 3,637,030
ACE	\$ 144,640.61	2,631.0	\$ 54.98	\$ 1,012,484	\$ 723,203	\$ 1,735,687
RE	\$ 17,608.86	427.4	\$ 41.20	\$ 123,262	\$ 88,044	\$ 211,306
Total Impact on NJ Zones	\$ 892,957.90			\$ 6,250,705	\$ 4,464,790	\$ 10,715,495

Notes on calculations >>>

$$\begin{aligned} &= (k) * (l) &= (k) * 7 &= (k) * 5 &= (n) * (o) \end{aligned}$$

Notes:

1) 2022 allocation share percentages are from PJM 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	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
			DFAX Allocation: APS (39.20%) / BGE (13.05%) / Dominion (31.49%) / PEPCO (16.26%)
b0218	Install third Wylie Ridge 500/345 kV transformer	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (11.83%) / DPL (19.40%) / Dominion (13.81%) / JCPL (15.56%) / PECO (39.40%)
b0220	Upgrade coolers on Wylie Ridge 500/345 kV #7		AEC (11.83%) / DPL (19.40%) / Dominion (13.81%) / JCPL (15.56%) / PECO (39.40%)
b0229	Install fourth Bedington 500/138 kV		APS (50.98%) / BGE (13.42%) / DPL (2.03%) / Dominion (14.50%) / ME (1.43%) / PEPCO (17.64%)
b0230	Install fourth Meadowbrook 500/138 kV	As specified under the procedures detailed in Attachment H-18B, Section 1.b	APS (79.16%) / BGE (3.61%) / DPL (0.86%) / Dominion (11.75%) / ME (0.67%) / PEPCO (3.95%)

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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)
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%)

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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
		Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
b0343	Replace Doubs 500/230 kV transformer #2	As specified under the procedures detailed in Attachment H-18B, Section 1.b
b0344	Replace Doubs 500/230 kV transformer #3	As specified under the procedures detailed in Attachment H-18B, Section 1.b
b0345	Replace Doubs 500/230 kV transformer #4	As specified under the procedures detailed in Attachment H-18B, Section 1.b

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.1	Build new Mt. Storm – 502 Junction 500 kV circuit	<p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)</p>
b0347.2	Build new Mt. Storm – Meadow Brook 500 kV circuit	<p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)</p>

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.3	Build new 502 Junction 500 kV substation	<p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)</p>
b0347.4	Upgrade Meadow Brook 500 kV substation	<p>As specified under the procedures detailed in Attachment H-18B, Section 1.b</p> <p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)</p>

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.5	Replace Harrison 500 kV breaker HL-3	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)</p>
b0347.6	Upgrade (per ABB inspection) breaker HL-6	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)</p>

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.7	Upgrade (per ABB inspection) breaker HL-7	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)</p>
b0347.8	Upgrade (per ABB inspection) breaker HL-8	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)</p>

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.9	Upgrade (per ABB inspection) breaker HL-10	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)
b0347.10	Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-1	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.11	Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-3	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)
b0347.12	Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-4	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.13	Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-6	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)
b0347.14	Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-7	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.15	Upgrade (per ABB Inspection) Hatfield 500 kV breakers HFL-9	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)
b0347.16	Upgrade (per ABB inspection) Harrison 500 kV breaker 'HL-3'	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (47.31%) / BGE (20.76%) / PEPCO (31.93%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.17	Replace Meadow Brook 138 kV breaker 'MD-10'	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)
b0347.18	Replace Meadow Brook 138 kV breaker 'MD-11'	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.19	Replace Meadow Brook 138 kV breaker 'MD-12'	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)</p>
b0347.20	Replace Meadow Brook 138 kV breaker 'MD-13'	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)</p>

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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)
b0347.21	Replace Meadow Brook 138 kV breaker 'MD-14'	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)</p>
b0347.22	Replace Meadow Brook 138 kV breaker 'MD-15'	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)</p>

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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)
b0347.23	Replace Meadow Brook 138 kV breaker 'MD-16'	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)</p>
b0347.24	Replace Meadow Brook 138 kV breaker 'MD-17'	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)</p>

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.25	Replace Meadow Brook 138 kV breaker 'MD-18'	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)</p>
b0347.26	Replace Meadow Brook 138 kV breaker 'MD-22#1 CAP'	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)</p>

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.27	Replace Meadow Brook 138 kV breaker 'MD-4'	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)
b0347.28	Replace Meadow Brook 138 kV breaker 'MD-5'	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.29	Replace Meadowbrook 138 kV breaker 'MD-6'	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)
b0347.30	Replace Meadowbrook 138 kV breaker 'MD-7'	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)

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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0347.31	Replace Meadowbrook 138 kV breaker 'MD-8'	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)</p>
b0347.32	Replace Meadowbrook 138 kV breaker 'MD-9'	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)</p>

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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b0347.33	Replace Meadow Brook 138 kV breaker 'MD-1'		APS (100%)
b0347.34	Replace Meadow Brook 138 kV breaker 'MD-2'		APS (100%)
b0348	Upgrade Stonewall – Inwood 138 kV with 954 ACSR conductor		APS (100%)
b0373	Convert Doubs – Monocacy 138 kV facilities to 230 kV operation		AEC (1.82%) / APS (76.84%) / DPL (2.64%) / JCPL (4.53%) / ME (9.15%) / NEPTUNE* (0.42%) / PPL (4.60%)
b0393	Replace terminal equipment at Harrison 500 kV and Belmont 500 kV		<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (44.89%) / Dayton (17.18%) / DEOK (28.83%) / EKPC (9.10%)</p>

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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)

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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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b0407.6	Replace Marlowe 138 kV breaker "R11"		APS (100%)
b0407.7	Replace Marlowe 138 kV breaker "W"		APS (100%)
b0407.8	Replace Marlowe 138 kV breaker "138 kV bus tie"		APS (100%)
b0408.1	Replace Trissler 138 kV breaker "Belmont 604"		APS (100%)
b0408.2	Replace Trissler 138 kV breaker "Edgelawn 90"		APS (100%)
b0409.1	Replace Weirton 138 kV breaker "Wylie Ridge 210"		APS (100%)
b0409.2	Replace Weirton 138 kV breaker "Wylie Ridge 216"		APS (100%)
b0410	Replace Glen Falls 138 kV breaker "McAlpin 30"		APS (100%)
b0417	Reconductor Mitchell – Shepler Hill Junction 138 kV with 954 ACSR		APS (100%)

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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)
b0418 Install a breaker failure auto-restoration scheme at Cabot 500 kV for the failure of the #6 breaker		AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
b0419 Install a breaker failure auto-restoration scheme at Bedington 500 kV for the failure of the #1 and #2 breakers		Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (100%)
b0420 Operating Procedure to open the Black Oak 500/138 kV transformer #3 for the loss of Hatfield – Ronco 500 kV and the Hatfield #3 Generation		APS (100%)
b0445 Upgrade substation equipment and reconductor the Tidd – Mahans Lane – Weirton 138 kV circuit with 954 ACSR		APS (100%)

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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)
b0460 Raise limiting structures on Albright – Bethelboro 138 kV to raise the rating to 175 MVA normal 214 MVA emergency		APS (100%)
b0491 Construct an Amos to Welton Spring to WV state line 765 kV circuit (APS equipment)	As specified under the procedures detailed in Attachment H-19B	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (5.01%) / AEP (4.39%) / APS (9.26%) / BGE (4.43%) / DL (0.02%) / DPL (6.91%) / Dominion (10.82%) / JCPL (11.64%) / ME (2.94%) / NEPTUNE* (1.12%) / PECO (14.51%) / PEPCO (6.11%) / PPL (6.39%) / PSEG (15.86%) / RE (0.59%)</p>

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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)
b0492	Construct a Welton Spring to Kempton 765 kV line (APS equipment)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAx Allocation: AEC (5.01%) / AEP (4.39%) / APS (9.26%) / BGE (4.43%) / DL (0.02%) / DPL (6.91%) / Dominion (10.82%) / JCPL (11.64%) / ME (2.94%) / NEPTUNE* (1.12%) / PECO (14.51%) / PEPCO (6.11%) / PPL (6.39%) / PSEG (15.86%) / RE (0.59%)</p>
b0492.3	Replace Eastalco 230 kV breaker D-26	APS (100%)
b0492.4	Replace Eastalco 230 kV breaker D-28	APS (100%)

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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)
b0492.5 Replace Eastalco 230 kV breaker D-31		APS (100%)
b0495 Replace existing Kammer 765/500 kV transformer with a new larger transformer		Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: AEP (2.21%) / APS (1.71%) / BGE (45.34%) / Dayton (0.76%) / DEOK (1.02%) / EKPC (0.26%) / PEPCO (48.70%)
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%)

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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)
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		Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
b0584 Install 33 MVAR 138 kV capacitor at Necessity 138 kV		DFAX Allocation: 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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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 - Catoctin 138 kV to 230 kV		AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)

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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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Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b0675.9	Convert Walkersville Substation from 138 kV to 230 kV		AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)
b0676.1	Reconductor Doubs - Lime Kiln (#207) 230 kV		AEC (0.64%) / APS (86.70%) / DPL (0.53%) / JCPL (1.93%) / ME (4.04%) / NEPTUNE* (0.18%) / PECO (1.93%) / PENELEC (0.93%) / PSEG (2.92%) / RE (0.12%) / ECP** (0.08%)
b0676.2	Reconductor Doubs - Lime Kiln (#231) 230 kV		AEC (0.64%) / APS (86.70%) / DPL (0.53%) / JCPL (1.93%) / ME (4.04%) / NEPTUNE* (0.18%) / PECO (1.93%) / PENELEC (0.93%) / PSEG (2.92%) / RE (0.12%) / ECP** (0.08%)
b0677	Reconductor Double Toll Gate – Riverton with 954 ACSR		APS (100%)
b0678	Reconductor Glen Falls - Oak Mound 138 kV with 954 ACSR		APS (100%)
b0679	Reconductor Grand Point – Letterkenny with 954 ACSR		APS (100%)
b0680	Reconductor Greene – Letterkenny with 954 ACSR		APS (100%)
b0681	Replace 600/5 CT's at Franklin 138 kV		APS (100%)
b0682	Replace 600/5 CT's at Whiteley 138 kV		APS (100%)

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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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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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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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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%)

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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%)

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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%)

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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 Reconducto the Edgewater – Vasco Tap; Edgewater – Loyalhanna 138 kV lines with 954 ACSR		APS (100%)
b1129 Reconducto 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 Reconducto the Bartonville – Meadowbrook 138 kV line with high temperature conductor		APS (100%)

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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%)

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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%)

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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 (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
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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Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1221.3 Loop Carbon Center Junction – Willamette 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 Reconstructor Willow-Eureka & Eureka-St Mary 138 kV lines		APS (100%)
b1232 Reconstructor 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 Reconstructor 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%)

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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)

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%)

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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)
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%)

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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		<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (20.09%) / BGE (13.46%) / Dominion (52.77%) / PEPCO (13.68%)</p>

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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)
b1507.3	Mt. Storm – Doubs transmission line rebuild in Maryland – Total line mileage for APS is 2.71 miles	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (20.09%) / BGE (13.46%) / Dominion (52.77%) / PEPCO (13.68%)</p>
b1510	Install 59.4 MVAR capacitor at Waverly	APS (100%)
b1672	Install a 230 kV breaker at Carbon Center	APS (100%)
b0539	Replace Doubs circuit breaker DJ11	APS (100%)
b0540	Replace Doubs circuit breaker DJ12	APS (100%)
b0541	Replace Doubs circuit breaker DJ13	APS (100%)
b0542	Replace Doubs circuit breaker DJ20	APS (100%)
b0543	Replace Doubs circuit breaker DJ21	APS (100%)
b0544	Remove instantaneous reclose from Eastalco circuit breaker D-26	APS (100%)

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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)
b0545 Remove instantaneous reclose from Eastalco circuit breaker D-28		APS (100%)
b0559 Install 200 MVAR capacitor at Meadow Brook 500 kV substation		<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)</p>
b0560 Install 250 MVAR capacitor at Kemptown 500 kV substation		<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (5.01%) / AEP (4.39%) / APS (9.26%) / BGE (4.43%) / DL (0.02%) / DPL (6.91%) / Dominion (10.82%) / JCPL (11.64%) / ME (2.94%) / NEPTUNE* (1.12%) / PECO (14.51%) / PEPCO (6.11%) / PPL (6.39%) / PSEG (15.86%) / RE (0.59%)</p>

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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)
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	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (20.09%) / BGE (13.46%) / Dominion (52.77%) / PEPCO (13.68%)
b1804	Install a new 600 MVAR SVC at Meadowbrook 500 kV	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: APS (30.25%) / BGE (8.80%) / Dominion (46.80%) / PEPCO (14.15%)
b1816.1	Replace relaying at the Mt. Airy substation on the Carroll - Mt. Airy 230 kV line	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)
b1816.2 Adjust the control settings of all existing capacitors at Mt Airy 34.5 kV, Monocacy 138 kV, Ringgold 138 kV served by Potomac Edison's Eastern 230 kV network to ensure that all units will be on during the identified N-1-1 contingencies		APS (100%)
b1816.3 Replace existing unidirectional LTC controller on the No. 4, 230/138 kV transformer at Carroll substation with a bidirectional unit		APS (100%)
b1816.4 Isolate and bypass the 138 kV reactor at Germantown Substation		APS (100%)
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		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)
b1822 Replace the 1200 A wave trap, line risers, breaker risers with 1600 A capacity terminal equipment at Reid 138 kV SS		APS (100%)
b1823 Replace the 800 A wave trap with a 1200 A wave trap at Millville 138 kV substation		APS (100%)
b1824 Reconductor Grant Point - Guilford 138 kV line approximately 8 miles of 556 ACSR with 795 ACSR		APS (100%)
b1825 Replace the 800 Amp line trap at Butler 138 kV Sub on the Cabot East 138 kV line		APS (100%)
b1826 Change the CT ratio at Double Toll Gate 138 kV SS on MDT line		APS (100%)
b1827 Change the CT ratio at Double Toll Gate 138 kV SS on MBG line		APS (100%)
b1828.1 Reconductor the Bartonville – Stephenson 3.03 mile 138 kV line of 556 ACSR with 795 ACSR		APS (100%)

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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)
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%)

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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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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 Reconduct or the Osage-Collins Ferry 138 kV line with 795 ACSS. Upgrade terminal equipment at Osage and Collins Ferry		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)
b1988 Raise structures between Lake Lynn and West Run to eliminate the clearance de-rates on the West Run – Lake Lynn 138 kV line		APS (100%)
b1989 Raise structures between Collins Ferry and West Run to eliminate the clearance de-rates on the Collins Ferry - West Run 138 kV line		APS (100%)
b2095 Replace Weirt 138 kV breaker 'S-TORONTO226' with 63 kA rated breaker		APS (100%)
b2096 Revise the reclosing of Weirt 138 kV breaker '2&5 XFMR'		APS (100%)
b2097 Replace Ridgeley 138 kV breaker '#2 XFMR OCB'		APS (100%)
b2098 Revise the reclosing of Ridgeley 138 kV breaker 'AR3' with 40 kA rated breaker		APS (100%)
b2099 Revise the reclosing of Ridgeley 138 kV breaker 'RC1'		APS (100%)
b2100 Replace Ridgeley 138 kV breaker 'WC4' with 40 kA rated breaker		APS (100%)
b2101 Replace Ridgeley 138 kV breaker '1 XFMR OCB' with 40 kA rated breaker		APS (100%)
b2102 Replace Armstrong 138 kV breaker 'GARETTRJCT' with 40 kA rated breaker		APS (100%)

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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)
b2103 Replace Armstrong 138 kV breaker 'BURMA' with 40 kA rated breaker		APS (100%)
b2104 Replace Armstrong 138 kV breaker 'KITTANNING' with 40 kA rated breaker		APS (100%)
b2105 Replace Armstrong 138 kV breaker 'KISSINGERJCT' with 40 kA rated breaker		APS (100%)
b2106 Replace Wylie Ridge 345 kV breaker 'WK-1' with 63 kA rated breaker		APS (100%)
b2107 Replace Wylie Ridge 345 kV breaker 'WK-2' with 63 kA rated breaker		APS (100%)
b2108 Replace Wylie Ridge 345 kV breaker 'WK-3' with 63 kA rated breaker		APS (100%)
b2109 Replace Wylie Ridge 345 kV breaker 'WK-4' with 63 kA rated breaker		APS (100%)
b2110 Replace Wylie Ridge 345 kV breaker 'WK-6' with 63 kA rated breaker		APS (100%)
b2111 Replace Wylie Ridge 138 kV breaker 'WK-7' with 63 kA rated breaker		APS (100%)
b2112 Replace Wylie Ridge 345 kV breaker 'WK-5'		APS (100%)
b2113 Replace Weirton 138 kV breaker 'NO 6 XFMR' with 63 kA rated breaker		APS (100%)
b2114 Replace Armstrong 138 kV breaker 'Bus-Tie' (Status On-Hold pending retirement)		APS (100%)

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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)
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 Reconducto the Millville – Sleepy Hollow 138 kV 4.25 miles of 556 ACSR with 795 ACSR, upgrade line risers at Sleepy Hollow, and change 1200 A CT tap at Millville to 800		APS (100%)
b2168 For Grassy Falls 138 kV Capacitor bank adjust turn-on voltage to 1.0 pu with a high limit of 1.04 pu, For Crupperneck and Powell Mountain 138 kV Capacitor Banks adjust turn-on voltage to 1.01 pu with a high limit of 1.035 pu		APS (100%)

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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 to 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%)

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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 Bartonsville		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%)

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 14 Monongahela Power Company

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%)

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 14 Monongahela Power Company

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

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2426 Replace the Oak Grove 138 kV breaker 'OG1' with 63 kA breakers		APS (100%)
b2427 Replace the Oak Grove 138 kV breaker 'OG2' with 63 kA breakers		APS (100%)
b2428 Replace the Oak Grove 138 kV breaker 'OG3' with 63 kA breakers		APS (100%)
b2429 Replace the Oak Grove 138 kV breaker 'OG4' with 63 kA breakers		APS (100%)
b2430 Replace the Oak Grove 138 kV breaker 'OG5' with 63 kA breakers		APS (100%)
b2431 Replace the Oak Grove 138 kV breaker 'OG6' with 63 kA breakers		APS (100%)
b2432 Replace the Ridgeley 138 kV breaker 'RC1' with a 40 kA rated breaker		APS (100%)
b2440 Replace the Cabot 138kV breaker 'C9-KISKI VLY' with 63kA		APS (100%)
b2472 Replace the Ringgold 138 kV breaker 'RCM1' with 40kA breakers		APS (100%)
b2473 Replace the Ringgold 138 kV breaker '#4 XMFR' with 40kA breakers		APS (100%)
b2475 Construct a new line between Oak Mound 138 kV substation and Waldo Run 138 kV substation		APS (100%)
b2545.1 Construct a new 138 kV substation (Shuman Hill substation) connected to the Fairview –Willow Island (84) 138 kV line		APS (100%)

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 14 Monongahela Power Company

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%)

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 14 Monongahela Power Company

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%)

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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)
b2666.12 Replace Yukon 138 kV breaker "Y-2(1B-BETHE)" with an 80 kA breaker		APS (100%)
b2666.13 Replace Yukon 138 kV breaker "Y-21(SHEPJ)" with an 80 kA breaker		APS (100%)
b2666.14 Replace Yukon 138 kV breaker "Y-22(SHEPHJT)" with an 80 kA breaker		APS (100%)
b2672 Change CT Ratio at Seneca Caverns from 120/1 to 160/1 and adjust relay settings accordingly		APS (100%)
b2688.3 Carroll Substation: Replace the Germantown 138 kV wave trap, upgrade the bus conductor and adjust CT ratios		AEP (12.91%) / APS (19.04%) / ATSI (1.24%) / ComEd (0.35%) / Dayton (1.45%) / DEOK (2.30%) / DL (1.11%) / Dominion (44.85%) / EKPC (0.78%) / PEPCO (15.85%) / RECO (0.12%)
b2689.3 Upgrade terminal equipment at structure 27A		APS (100%)
b2696 Upgrade 138 kV substation equipment at Butler, Shanor Manor and Krendale substations. New rating of line will be 353 MVA summer normal/422 MVA emergency		APS (100%)
b2700 Remove existing Black Oak SPS		APS (100%)
b2743.6 Reconfigure the Ringgold 230 kV substation to double bus double breaker scheme		AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 14 Monongahela Power Company

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

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2743.6.1 Replace the two Ringgold 230/138 kV transformers		AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)
b2743.7 Rebuild/Reconductor the Ringgold – Catoctin 138 kV circuit and upgrade terminal equipment on both ends		AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)
b2747.1 Relocate the FirstEnergy Pratts 138 kV terminal CVTs at Gordonsville substation to allow for the installation of a new motor operated switch being installed by Dominion		APS (100%)
b2763 Replace the breaker risers and wave trap at Bredinville 138 kV substation on the Cabrey Junction 138 kV terminal		APS (100%)
b2764 Upgrade Fairview 138 kV breaker risers and disconnect leads; Replace 500 CU breaker risers and 556 ACSR disconnect leads with 795 ACSR		APS (100%)
b2964.1 Replace terminal equipment at Pruntytown and Glen Falls 138 kV station		APS (100%)
b2964.2 Reconductor approximately 8.3 miles of the McAlpin - White Hall Junction 138 kV circuit		APS (100%)

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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)
b2965 Reconductor the Charleroi – Allenport 138 kV line with 954 ACSR conductor. Replace breaker risers at Charleroi and Allenport		<i>DL</i> (100%)
b2966 Reconductor the Yukon – Smithton – Shepler Hill Jct 138 kV line with 795 ACSS conductor. Replace Line Disconnect Switch at Yukon		APS (100%)
b2966.1 Reconductor the Yukon - Smithton - Shepler Hill Jct 138 kV line and replace terminal equipment as necessary to achieve required rating		APS (100%)
b2967 Convert the existing 6 wire Butler - Shanor Manor - Krendale 138 kV line into two separate 138 kV lines. New lines will be Butler - Keisters and Butler - Shanor Manor - Krendale 138 kV		APS (100%)
b2970 Ringgold – Catoctin Solution		APS (100%)
b2970.1 Install two new 230 kV positions at Ringgold for 230/138 kV transformers		APS (100%)
b2970.2 Install new 230 kV position for Ringgold – Catoctin 230 kV line		APS (100%)
b2970.3 Install one new 230 kV breaker at Catoctin substation		APS (100%)
b2970.4 Install new 230/138 kV transformer at Catoctin substation. Convert Ringgold – Catoctin 138 kV line to 230 kV operation		APS (100%)

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

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

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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)
b3005 Reconductor 3.1 mile 556 ACSR portion of Cabot to Butler 138 kV with 556 ACSS and upgrade terminal equipment. 3.1 miles of line will be reconducted for this project. The total length of the line is 7.75 miles		APS (100%)
b3006 Replace four Yukon 500/138 kV transformers with three transformers with higher rating and reconfigure 500 kV bus		APS (73.55%) / DL (26.45%)
b3007.1 Reconductor the Blairsville East to Social Hall 138 kV line and upgrade terminal equipment - AP portion. 4.8 miles total. The new conductor will be 636 ACSS replacing the existing 636 ACSR conductor. At Social Hall, meters, relays, bus conductor, a wave trap, circuit breaker and disconnects will be replaced		APS (100%)
b3010 Replace terminal equipment at Keystone and Cabot 500 kV buses. At Keystone, bus tubing and conductor, a wave trap, and meter will be replaced. At Cabot, a wave trap and bus conductor will be replaced		APS (100%)
b3011.1 Construct new Route 51 substation and connect 10 138 kV lines to new substation		DL (100%)
b3011.2 Upgrade terminal equipment at Yukon to increase rating on Yukon to Charleroi #2 138 kV line (New Yukon to Route 51 #4 138 kV line)		DL (100%)

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

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b3011.3	Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #1 138 kV line	DL (100%)
b3011.4	Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #2 138 kV line	DL (100%)
b3011.5	Upgrade terminal equipment at Yukon to increase rating on Yukon to Route 51 #3 138 kV line	DL (100%)
b3011.6	Upgrade remote end relays for Yukon – Allenport – Iron Bridge 138 kV line	DL (100%)
b3012.1	Construct two new 138 kV ties with the single structure from APS's new substation to Duquesne's new substation. The estimated line length is approximately 4.7 miles. The line is planned to use multiple ACSS conductors per phase	ATSI (38.21%) / DL (61.79%)
b3012.3	Construct a new Elrama – Route 51 138 kV No.3 line: reconductor 4.7 miles of the existing line, and construct 1.5 miles of a new line to the reconducted portion. Install a new line terminal at APS Route 51 substation	DL (100%)

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 14 Monongahela Power Company

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

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b3013	Reconductor Vasco Tap to Edgewater Tap 138 kV line. 4.4 miles. The new conductor will be 336 ACSS replacing the existing 336 ACSR conductor	APS (100%)
b3015.6	Reconductor Elrama to Mitchell 138 kV line – AP portion. 4.2 miles total. 2x 795 ACSS/TW 20/7	DL (100%)
b3015.8	Upgrade terminal equipment at Mitchell for Mitchell – Elrama 138 kV line	APS (100%)
b3028	Upgrade substation disconnect leads at William 138 kV substation	APS (100%)
b3051.1	Ronceverte cap bank and terminal upgrades	APS (100%)
b3052	Install a 138 kV capacitor (29.7 MVAR effective) at West Winchester 138 kV	APS (100%)
b3064.3	Upgrade line relaying at Piney Fork and Bethel Park for Piney For – Elrama 138 kV line and Bethel Park – Elrama 138 kV	APS (100%)

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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)
b3068	Reconductor the Yukon – Westraver 138 kV line (2.8 miles), replace the line drops and relays at Yukon 138 kV and replace switches at Westraver 138 kV bus	APS (100%)
b3069	Reconductor the Westraver – Route 51 138 kV line (5.63 miles) and replace line switches at Westraver 138 kV bus	APS (100%)
b3070	Reconductor the Yukon – Route 51 #1 138 kV line (8 miles), replace the line drops, relays and line disconnect switch at Yukon 138 kV bus	APS (100%)
b3071	Reconductor the Yukon – Route 51 #2 138 kV line (8 miles) and replace relays at Yukon 138 kV bus	APS (100%)
b3072	Reconductor the Yukon – Route 51 #3 138 kV line (8 miles) and replace relays at Yukon 138 kV bus	APS (100%)
b3074	Reconductor the 138 kV bus at Armstrong substation	APS (100%)
b3075	Replace the 500/138 kV transformer breaker and reconductor 138 kV bus at Cabot substation	APS (100%)
b3076	Reconductor the Edgewater – Loyalhanna 138 kV line (0.67 mile)	APS (100%)
b3079	Replace the Wylie Ridge 500/345 kV transformer #7	ATSI (72.30%) / DL (27.70%)
b3083	Reconductor the 138 kV bus at Butler and reconductor the 138 kV bus and replace line trap at Karns City	APS (100%)

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 14 Monongahela Power Company

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

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b3128	Relocate 34.5 kV lines from generating station roof R. Paul Smith 138 kV station	APS (100%)
b3230	At Enon substation install a second 138 kV, 28.8 MVAR nameplate, capacitor and the associated 138 kV capacitor switcher	APS (100%)
b3240	Upgrade Cherry Run and Morgan terminals to make the transmission line the limiting component	APS (100%)
b3241	Install 138 kV, 36 MVAR capacitor and a 5 uF reactor protected by a 138 kV capacitor switcher. Install a breaker on the 138 kV Junction terminal. Install a 138 kV 3.5 uF reactor on the existing Hardy 138 kV capacitor	APS (100%)
b3242	Reconfigure Stonewall 138 kV substation from its current configuration to a six-breaker, breaker-and-a-half layout and add two (2) 36 MVAR capacitors with capacitor switchers	APS (100%)
b3318	Reconducto the Shanor Manor - Butler 138 kV line with an upgraded circuit breaker at Butler 138 kV station	APS (100%)
b3325	Reconducto the Charleroi - Union 138 kV line and upgrade terminal equipment at Charleroi 138 kV station	APS (100%)

Attachment 5B – Cost Allocation of 2022/2023 BG&E Schedule 12 Charges

Attachment 5B PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for BG&E

Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2022 - May 2023		Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
		Annual Revenue Requirement per PJM website	per PJM website	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	
Install a second Conastone – Graceton 230 kV circuit	b0497	\$ 2,685,400.00		9.00%	9.64%	14.07%	0.52%	\$241,686	\$258,873	\$377,836	\$13,964	\$892,358
Upgrade Conastone Substation Equipment 500kv	b2766.1	\$ 553,839		1.67%	3.92%	6.40%	0.27%	\$9,249	\$21,710	\$35,446	\$1,495	\$67,901
Upgrade Conastone Substation Equipment 500kv	2766.1_dfax	\$ 553,839		0.72%	0.00%	12.92%	0.50%	\$3,988	\$0	\$71,556	\$2,769	\$78,313
Totals		\$ -						\$0	\$0	\$0	\$0	\$0
								\$254,923	\$280,583	\$484,837	\$18,229	\$1,038,572

Notes on calculations >>>

$$\begin{aligned} &= (a) * (b) &= (a) * (c) &= (a) * (d) &= (a) * (e) &= (f) + (g) + \\ & & & & & (h) + (i) \end{aligned}$$

	(k)	(l)	(m)	(n)	(o)	(p)
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 22/23	2022TX Peak Load per PJM website	Rate in \$/MW-mo.	2022 Impact (7 months)	2023 Impact (5 months)	2022-2023 Impact (12 months)
PSE&G	\$ 40,403.11	10,064.1	\$ 4.01	\$ 282,822	\$ 202,016	\$ 484,837
JCP&L	\$ 23,381.92	6,169.1	\$ 3.79	\$ 163,673	\$ 116,910	\$ 280,583
ACE	\$ 21,243.56	2,631.0	\$ 8.07	\$ 148,705	\$ 106,218	\$ 254,923
RE	\$ 1,519.05	427.4	\$ 3.55	\$ 10,633	\$ 7,595	\$ 18,229
Total Impact on NJ Zones	\$ 86,547.65			\$ 605,834	\$ 432,738	\$ 1,038,572

Notes on calculations >>>

$$\begin{aligned} &= (k) * (l) &= (k) * 7 &= (k) * 5 &= (n) * (o) \end{aligned}$$

Notes:

1) 2022 allocation share percentages are from PJM OATT

SCHEDULE 12 – APPENDIX**(2) Baltimore Gas and Electric Company**

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0152 Add (2) 230 kV Breakers at High Ridge and install two Northwest 230 kV 120 MVAR capacitors		BGE (100%)
b0244 Install a 4 th Waugh Chapel 500/230 kV transformer, terminate the transformer in a new 500 kV bay and operate the existing in-service spare transformer on standby		BGE (85.56%) / ME (0.83%) / PEPCO (13.61%)
b0298 Replace both Conastone 500/230 kV transformers with larger transformers	As specified in Attachment H-2A, Attachment 7, the Transmission Enhancement Charge Worksheet	BGE (75.85%) / Dominion (11.54%) / ME (4.73%) / PEPCO (7.88%)
b0298.1 Replace Conastone 230 kV breaker 500-3/2323		BGE (100%)
b0474 Add a fourth 230/115 kV transformer, two 230 kV circuit breakers and a 115 kV breaker at Waugh Chapel		BGE (100%)
b0475 Create two 230 kV ring buses at North West, add two 230/115 kV transformers at North West and create a new 115 kV station at North West		BGE (100%)
b0476 Rebuild High Ridge 230 kV substation to Breaker and Half configuration		BGE (100%)
b0477 Replace the Waugh Chapel 500/230 kV transformer #1 with three single phase transformers		BGE (90.56%) / ME (1.51%) / PECO (.92%) / PEPCO (4.01%) / PPL (3.00%)

Baltimore Gas and Electric Company (cont.)

	Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0497	Install a second Conastone – Graceton 230 kV circuit		AEC (9.00%) / DPL (16.85%) / JCPL (9.64%) / ME (1.48%) / NEPTUNE* (0.95%) / PECO (30.79%) / PPL (16.41%) / ECP** (0.29%) / PSEG (14.07%) / RE (0.52%)
b0497.1	Replace Conastone 230 kV breaker #4		BGE (100%)
b0497.2	Replace Conastone 230 kV breaker #7		BGE (100%)
b0500.2	Replace wavetrap and raise operating temperature on Conastone – Otter Creek 230 kV line to 165 deg		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%)
b0512.33	MAPP Project Install new Hallowing Point – Calvert Cliffs 500 kV circuit and associated substation work at Calvert Cliffs substation		AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)

* Neptune Regional Transmission System, LLC

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

Baltimore Gas and Electric Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.43 MAPP Project Install new Hallowing Point – Calvert Cliffs 500 kV circuit and associated substation work at Calvert Cliffs substation		AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
b0729 Rebuild both Harford – Perryman 110615-A and 110616-A 115 kV circuits		BGE (100%)
b0749 Replace 230 kV breaker and associated CT's at Riverside 230 kV on 2345 line; replace all dead-end structures at Brandon Shores, Hawkins Point, Sollers Point and Riverside; Install a second conductor per phase on the spans entering each station		BGE (100%)

* Neptune Regional Transmission System, LLC

Baltimore Gas and Electric Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
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b0795	Install a 115 kV breaker at Chesaco Park		BGE (100%)
b0796	Install 2, 115 kV breakers at Gwynnbrook		BGE (100%)
b0819	Remove line drop limitations at the substation terminations for Gwynnbrook – Mays Chapel 115 kV		BGE (100%)
b0820	Remove line drop limitations at the substation terminations and replace switch for Delight – Gwynnbrook 115 kV		BGE (100%)
b0821	Remove line drop limitations at the substation terminations for Northwest – Delight 115 kV		BGE (100%)
b0822	Remove line drop limitations at the substation terminations for Gwynnbrook – Sudbrook 115 kV		BGE (100%)
b0823	Remove line drop limitations at the substation terminations for Windy Edge – Texas 115 kV		BGE (100%)
b0824	Remove line drop limitations at the substation terminations for Granite – Harrisonville 115 kV		BGE (100%)
b0825	Remove line drop limitations at the substation terminations for Harrison – Dolefield 115 kV		BGE (100%)

Baltimore Gas and Electric Company (cont.)

	Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0826	Remove line drop limitations at the substation terminations for Riverside – East Point 115 kV		BGE (100%)
b0827	Install an SPS for one year to trip a Mays Chapel 115 kV breaker one line 110579 for line overloads 110509		BGE (100%)
b0828	Disable the HS throwover at Harrisonville for one year		BGE (100%)
b0870	Rebuild each line (0.2 miles each) to increase the normal rating to 968 MVA and the emergency rating to 1227 MVA		BGE (100%)
b0906	Increase contact parting time on Wagner 115 kV breaker 32-3/2		BGE (100%)
b0907	Increase contact parting time on Wagner 115 kV breaker 34-1/3		BGE (100%)
b1016	Rebuild Graceton - Bagley 230 kV as double circuit line using 1590 ACSR. Terminate new line at Graceton with a new circuit breaker		APS (2.02%) / BGE (75.22%) / Dominion (16.10%) / PEPCO (6.66%)
b1055	Upgrade wire drops at Center 115 kV on the Center - Westport 115 kV circuit		BGE (100%)
b1029	Upgrade wire sections at Wagner on both 110534 and 110535 115 kV circuits. Reconfigure Lipins Corner substation		BGE (100%)

The Annual Revenue Requirement associated with the Transmission Enhancement Charges are set forth and determined in Appendix A to Attachment H-2.

Baltimore Gas and Electric Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1030 Move the Hillen Rd substation from circuits 110507/110508 to circuits 110505/110506		BGE (100%)
b1031 Replace wire sections on Westport - Pumphrey 115 kV circuits #110521, 110524, 110525, and 110526		BGE (100%)
b1083 Upgrade wire sections of the Mays Chapel – Mt Washington circuits (110701 and 110703) to improve the rating to 260/300 SN/SE MVA		BGE (100%)
b1084 Extend circuit 110570 from Deer Park to Northwest, and retire the section of circuit 110560 from Deer Park to Deer Park tap and retire existing Deer Park Breaker		BGE (100%)
b1085 Upgrade substation wire conductors at Lipins Corner to improve the rating of Solley-Lipins Corner sections of circuits 110534 and 110535 to 275/311 MVA SN/SE		BGE (100%)
b1086 Build a new 115 kV switching station between Orchard St. and Monument St.		BGE (100%)
b1175 Apply SPS at Mt. Washington to delay load pick-up for one outage and for the other outage temporarily drop load		BGE (100%)

Baltimore Gas and Electric Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1176 Transfer 6 MW of load from Mt. Washington – East Towson		BGE (100%)
b1251 Build a second Raphael – Bagley 230 kV		APS (4.42%) / BGE (66.95%) / ComEd (4.12%) / Dayton (0.49%) / Dominion (18.76%) / PENELEC (0.05%) / PEPCO (5.21%)
b1251.1 Re-build the existing Raphael – Bagley 230 kV		APS (4.42%) / BGE (66.95%) / ComEd (4.12%) / Dayton (0.49%) / Dominion (18.76%) / PENELEC (0.05%) / PEPCO (5.21%)
b1252 Upgrade terminal equipment (remove terminal limitation at Pumphrey Tap to bring the circuit to 790N/941E		BGE (100%)

Baltimore Gas and Electric Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1253	Replace the existing Northeast 230/115 kV transformer #3 with 500 MVA		BGE (100%)
b1253.1	Replace the Northeast 230 kV breaker '2317/315'		BGE (100%)
b1253.2	Revise reclosing on Windy Edge 115 kV breaker '110515'		BGE (100%)
b1253.3	Revise reclosing on Windy Edge 115 kV breaker '110516'		BGE (100%)
b1253.4	Revise reclosing on Windy Edge 115 kV breaker '110517'		BGE (100%)
b1254	Build a new 500/230 kV substation (Emory Grove)		APS (4.07%) / BGE (53.19%) / ComEd (3.71%) / Dayton (0.50%) / Dominion (16.44%) / PENELEC (0.59%) / PEPCO (21.50%)
b1254.1	Bundle the Emory – North West 230 kV circuits		BGE (100%)
b1267	Rebuild existing Erdman 115 kV substation to a dual ring-bus configuration to enable termination of new circuits		BGE (100%)
b1267.1	Construct 115 kV double circuit underground line from existing Coldspring to Erdman substation		BGE (100%)
b1267.2	Replace Mays Chapel 115 kV breaker '110515A'		BGE (100%)
b1267.3	Replace Mays Chapel 115 kV breaker '110579C'		BGE (100%)

Baltimore Gas and Electric Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1544 Advance the baseline upgrade B1252 to upgrade terminal equipment removing terminal limitation at Pumphrey Tap on BGE 230 kV circuit 2332-A		BGE (100%)
b1545 Upgrade terminal equipment at both Brandon Shores and Waugh Chapel removing terminal limitation on BGE 230 kV circuit 2343		BGE (100%)
b1546 Upgrade terminal equipment at Graceton removing terminal limitation on BGE portion of the 230 kV Graceton – Cooper circuit 2343		BGE (100%)
b1583 Replace Hazelwood 115 kV breaker '110602'		BGE (100%)
b1584 Replace Hazelwood 115 kV breaker '110604'		BGE (100%)
b1606.1 Moving the station supply connections of the Hazelwood 115/13 kV station		BGE (100%)
b1606.2 Installing 115 kV tie breakers at Melvale		BGE (100%)
b1785 Revise the reclosing for Pumphrey 115 kV breaker '110521 DR'		BGE (100%)
b1786 Revise the reclosing for Pumphrey 115 kV breaker '110526 DR'		BGE (100%)
b1789 Revise the reclosing for Pumphrey 115 kV breaker '110524DR'		BGE (100%)
b1806 Rebuild Wagner 115 kV substation to 80 kA		BGE (100%)

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 2 Baltimore Gas and Electric

SCHEDULE 12 – APPENDIX A

(2) Baltimore Gas and Electric Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

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

Baltimore Gas and Electric Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2396.1	Install a tie breaker at Mays Chapel 115 kV substation		BGE (100%)
b2567	Upgrade the Riverside 115 kV substation strain bus conductors on circuits 115012 and 115011 with double bundled 1272 ACSR to achieve ratings of 491/577 MVA SN/SE on both transformer leads		BGE (100%)
b2568	Reconductor Northwest – Northwest #2 115 kV 110574 substation tie circuit with 2167 ACSR to achieve ratings of 400/462 MVA SN/SE		BGE (100%)
b2752.6	Conastone 230 kV substation tie-in work (install a new circuit breaker at Conastone 230 kV and upgrade any required terminal equipment to terminate the new circuit)		AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)
b2752.7	Reconductor/Rebuild the two Conastone – Northwest 230 kV lines and upgrade terminal equipment on both ends		AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)
b2752.8	Replace the Conastone 230 kV '2322 B5' breaker with a 63 kA breaker		BGE (100%)

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 2 Baltimore Gas and Electric

Baltimore Gas and Electric Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2752.9 Replace the Conastone 230 kV '2322 B6' breaker with a 63 kA breaker		BGE (100%)
b2766.1 Upgrade substation equipment at Conastone 500 kV to increase facility rating to 2826 MVA normal and 3525 MVA emergency		<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPSCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (0.72%) / APS (11.06%) / ATSI (1.43%) / BGE (34.25%) / DPL (1.83%) / PECO (1.80%) / PEPSCO (35.49%) / PSEG (12.92%) / RE (0.50%)</p>

*Neptune Regional Transmission System, LLC

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 2 Baltimore Gas and Electric

Baltimore Gas and Electric Company (cont.)

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

Attachment 5C – Cost Allocation of 2022/2023 PPL Schedule 12 Charges

Attachment 5C PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

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 2022- May 2023 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 Transmission Tariff	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 500 KV Susquehana-Roseland Line	b0487	\$ 31,253,716.50	1.67%	3.92%	6.40%	0.27%	\$521,937	\$1,225,146	\$2,000,238	\$84,385	\$3,831,706
New 500 KV Susquehana-Roseland Line	b0487_dfax	\$ 31,253,716.50	0.00%	30.99%	62.66%	2.43%	\$0	\$9,685,527	\$19,583,579	\$759,465	\$30,028,571
Replace wave trap at Alburtus 500 kV Sub	b0171.2	\$ 3,487.00	1.67%	3.92%	6.40%	0.27%	\$58	\$137	\$223	\$9	\$428
Replace wave trap at Alburtus 500 kV Sub	b0171.2_dfax	\$ 3,487.00	9.80%	19.56%	0.00%	0.00%	\$342	\$682	\$0	\$0	\$1,024
Replace wavetrap at Hosenack 500KV Sub	b0172.1	\$ 2,500.50	1.67%	3.92%	6.40%	0.27%	\$42	\$98	\$160	\$7	\$307
Replace wavetrap at Hosenack 500KV Sub	b0172.1_dfax	\$ 2,500.50	8.24%	30.19%	54.60%	2.12%	\$206	\$755	\$1,365	\$53	\$2,379
Replace wavetraps at Junita 500KV Sub	b0284.2	\$ 5,062.00	1.67%	3.92%	6.40%	0.27%	\$85	\$198	\$324	\$14	\$621
Replace wavetraps at Junita 500KV Sub	b0284.2_dfax	\$ 5,062.00	5.89%	19.26%	26.53%	1.03%	\$298	\$975	\$1,343	\$52	\$2,668
New S-R additions < 500kV ²	b0487.1	\$ 1,488,654.00	0.00%	0.00%	5.13%	0.19%	\$0	\$0	\$76,368	\$2,828	\$79,196
New substation and transformers Middletown	b0468	\$ 2,016,535.00	0.00%	4.55%	5.93%	0.22%	\$0	\$91,752	\$119,581	\$4,436	\$215,769
Install Laushtown 500/230 KV Sub below 500kv portion	b2006	\$ 944,183.00	1.10%	9.61%	11.35%	0.45%	\$10,386	\$90,736	\$107,165	\$4,249	\$212,536
Install Laushtown 500/230 KV Sub 500kv portion tie line	b2006.1	\$ 1,999,623.00	1.67%	3.92%	6.40%	0.27%	\$33,394	\$78,385	\$127,976	\$5,399	\$245,154
500kv portion tie line 200 MVAR shunt reactor at Alburtis 500kv	b2006.1_dfax	\$ 1,999,623.00	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
200 MVAR shunt reactor at Alburtis 500kv	b2237	\$ 720,809.50	1.67%	3.92%	6.40%	0.27%	\$12,038	\$28,256	\$46,132	\$1,946	\$88,371
200 MVAR shunt reactor at Alburtis 500kv	b2237_dfax	\$ 720,809.50	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0

Attachment 5C PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for PPL Projects

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)		
Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project							
Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2022- May 2023 Annual Revenue Requirement per PJM website	ACE Zone Share ¹ per PJM Open Access Transmission Tariff	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
200 MVAR shunt reactor at Lackawanna 500kv	b2716	\$ 680,596.50	1.67%	3.92%	6.40%	0.27%	\$11,366	\$26,679	\$43,558	\$1,838	\$83,441
200 MVAR shunt reactor at Lackawanna 500kv	b2716_dfax	\$ 680,596.50	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Add 3rd Bay w/3 Breakers at Lackawanna 500kv	b2824	\$ 824,922.00	1.67%	3.92%	6.40%	0.27%	\$13,776	\$32,337	\$52,795	\$2,227	\$101,135
Add 3rd Bay w/3 Breakers at Lackawanna 500kv	b2824_dfax	\$ 824,922.00	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Totals							\$603,927	\$11,261,663	\$22,160,806	\$866,909	\$34,893,305

Notes on calculations >>>

$$\begin{aligned} &= (a) * (b) & &= (a) * (c) & &= (a) * (d) & &= (a) * (e) & &= (f) + (g) + \\ & & & & & & & & & (h) + (i) \end{aligned}$$

(k)	(l)	(m)	(n)	(o)	(p)	
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 22/23	2022TX Peak Load per PJM website	Rate in \$/MW-mo.	2022 Impact (7 months)	2023 Impact (5 months)	2022-2023 Impact (12 months)
PSEG	\$ 1,846,733.84	10,064.1	\$ 183.50	\$ 12,927,137	\$ 9,233,669	\$ 22,160,806
JCP&L	\$ 938,471.92	6,169.1	\$ 152.12	\$ 6,569,303	\$ 4,692,360	\$ 11,261,663
ACE	\$ 50,327.24	2,631.0	\$ 19.13	\$ 352,291	\$ 251,636	\$ 603,927
RE	\$ 72,242.42	427.4	\$ 169.03	\$ 505,697	\$ 361,212	\$ 866,909
Total Impact on NJ Zones	\$ 2,907,775.43			\$ 20,354,428	\$ 14,538,877	\$ 34,893,305

Notes on calculations >>>

$$\begin{aligned} &= (k) * (l) & &= (k) * 7 & &= (k) * 5 & &= (n) * (o) \end{aligned}$$

Notes:

1) 2022 allocation share percentages are from PJM OATT

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 – APPENDIX --> OATT SCHEDULE 12.APPENDIX 9 PPL Electric Utilities Corpora

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 500 kV substation to increase rating of Elroy - Hosensack 500 kV		Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%) DFAX Allocation: AEC (9.80%) / DPL (8.43%) / JCPL (19.56%) / PECO (62.21%)

* Neptune Regional Transmission System, LLC

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 – APPENDIX --> OATT SCHEDULE 12.APPENDIX 9 PPL Electric Utilities Corpora

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0172.1	Replace wave trap at Alburtis 500 kV substation	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (8.24%) / JCPL (30.19%) / NEPTUNE* (4.85%) / PSEG (54.60%) / RE (2.12%)</p>
b0284.2	Replace two wave traps at Juniata 500 kV – on the two Juniata – Airydale 500 kV	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (5.89%) / BGE (14.03%) / JCPL (19.26%) / ME (10.43%) / NEPTUNE* (2.13%) / PECO (20.70%) / PSEG (26.53%) / RE (1.03%)</p>

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PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
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%) / PEKO (1.79%) / PENELEC (0.33%) / PPL (86.63%) / ECP** (0.18%) / PSEG (5.93%) / RE (0.22%)

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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		Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
b0487.1	Install Lackawanna 500/230 kV transformer and upgrade 230 kV substation and switchyard		DFAX Allocation: JCPL (30.99%) / NEPTUNE* (3.92%) / PSEG (62.66%) / RE (2.43%)
b0500.1	Conastone – Otter Creek 230 kV – Reconstructor approximately 17.2 miles of 795 kcmil ACSR with new 795 kcmil ACSS operated at 160 deg C		PENELEC (16.90%) / PPL (77.59%) / ECP** (0.19%) / PSEG (5.13%) / RE (0.19%)
			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%)

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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.

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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 (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
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%)

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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 Reconducto 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%)

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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%)

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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%)

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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%)

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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%)

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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 Reconducto 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%)

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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%)

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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 Reconduct or 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%)

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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%)
b1528 Install Motor-Operated switches on the Wescosville-Trexlertown #1 & #2 69 kV lines at East Texas Substation		PPL (100%)
b1529 Add a double breaker 230 kV bay 3 at Hosenack		PPL (100%)
b1530 Replace Lock Haven 69 kV ring bus with standard breaker and half design		PPL (100%)
b1532 Install new 32.4 MVAR capacitor bank at Sunbury		PPL (100%)

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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 69 kV lines		PPL (100%)
b1534 Rebuild 1.4 miles of the Sunbury-Milton 69 kV		PPL (100%)
b1601 Re-configure the Breinigsville 500 kV substation with addition two 500 kV circuit breakers		AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)†
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%)

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

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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 Reconducto/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%)

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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%)

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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)		Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%) DFAX Allocation: BGE (19.51%) / PPL (80.49%)
b2006.2 Construct a new 230/69 kV North Lancaster substation. The sub will be supplied from the SAKR-BERK 230 kV Line		PPL (100%)
b2006.3 Construct new 69/138 kV transmission from North Lancaster 230/69 kV sub to Brecknock and Honeybrook areas		PPL (100%)

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PPL Electric Utilities Corporation (cont.)

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

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 9 PPL Electric Utilities Corpo

SCHEDULE 12 – APPENDIX A

(9) PPL Electric Utilities Corporation

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1813.12 Replace the Blooming Grove 230 kV breaker 'Peckville'		PPL (100%)
b2223 Rebuild and reconductor 2.6 miles of the Sunbury - Dauphin 69 kV circuit		PPL (100%)
b2224 Add a 2nd 150 MVA 230/69 kV transformer at Springfield		PPL (100%)
b2237 150 MVAR shunt reactor at Alburtis 500 kV		Load-Ratio Share Allocation: AEC (1.71%) / AEP (14.04%) / APS (5.61%) / ATSI (8.10%) / BGE (4.36%) / ComEd (13.14%) / Dayton (2.15%) / DEOK (3.23%) / DL (1.73%) / DPL (2.65%) / Dominion (13.03%) / EKPC (1.77%) / JCPL (3.84%) / ME (1.93%) / NEPTUNE* (0.45%) / OVEC (0.07%) / PECO (5.29%) / PENELEC (1.89%) / PEPCO (3.82%) / PPL (4.72%) / PSEG (6.21%) / RE (0.26%)
b2238 100 MVAR shunt reactor at Elimsport 230 kV		DFAX Allocation: PPL (100%)

* Neptune Regional Transmission System, LLC

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 9 PPL Electric Utilities Corpo

PPL Electric Utilities Corporation (cont.)

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

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 9 PPL Electric Utilities Corpo

PPL Electric Utilities Corporation (cont.)

	Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2446	Replace wave trap and protective relays at Montour		PPL (100%)
b2447	Replace wave trap and protective relays at Montour		PPL (100%)
b2448	Install a 2nd Sunbury 900 MVA 500-230 kV transformer and associated equipment		PPL (100%)
b2552.2	Reconductor the North Meshoppen - Oxbow – Lackawanna 230 kV circuit and upgrade terminal equipment (PPL portion)		PENELEC (98.84%) / PPL (1.16%)
b2574	Replace the Sunbury 230 kV 'MONTOUR NORT' breaker with a 63 kA breaker		PPL (100%)
b2690	Reconductor two spans of the Gracetton – 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%)

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 9 PPL Electric Utilities Corpo

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		Load-Ratio Share Allocation: AEC (1.71%) / AEP (14.04%) / APS (5.61%) / ATSI (8.10%) / BGE (4.36%) / ComEd (13.14%) / Dayton (2.15%) / DEOK (3.23%) / DL (1.73%) / DPL (2.65%) / Dominion (13.03%) / EKPC (1.77%) / JCPL (3.84%) / ME (1.93%) / NEPTUNE* (0.45%) / OVEC (0.07%) / PECO (5.29%) / PENELEC (1.89%) / PEPCO (3.82%) / PPL (4.72%) / PSEG (6.21%) / RE (0.26%)
		DFAX Allocation: PPL (100%)
b2754.1 Install 7 miles of optical ground wire (OPGW) between Gilbert and Springfield 230 kV substations		PPL (100%)
b2754.4 Use ~ 40 route miles of existing fibers on PPL 230 kV system to establish direct fiber circuits		PPL (100%)
b2754.5 Upgrade relaying at Martins Creek 230 kV		PPL (100%)
b2756 Install 2% reactors at Martins Creek 230 kV		PPL (100%)
b2813 Expand existing Lycoming 69 kV yard to double bus double breaker arrangement		PPL (100%)

* Neptune Regional Transmission System, LLC

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 9 PPL Electric Utilities Corpo

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2824 Reconfigure/Expand the Lackawanna 500 kV substation by adding a third bay with three breakers		Load-Ratio Share Allocation: AEC (1.71%) / AEP (14.04%) / APS (5.61%) / ATSI (8.10%) / BGE (4.36%) / ComEd (13.14%) / Dayton (2.15%) / DEOK (3.23%) / DL (1.73%) / DPL (2.65%) / Dominion (13.03%) / EKPC (1.77%) / JCPL (3.84%) / ME (1.93%) / NEPTUNE* (0.45%) / OVEC (0.07%) / PECO (5.29%) / PENELEC (1.89%) / PEPCO (3.82%) / PPL (4.72%) / PSEG (6.21%) / RE (0.26%)
		DFAX Allocation: PPL (100%)
b2838 Build a new 230/69 kV substation by tapping the Montour – Susquehanna 230 kV double circuits and Berwick – Hunlock & Berwick – Colombia 69 kV circuits		PPL (100%)
b2979 Replace Martins Creek 230 kV circuit breakers with 80 kA rating		PPL (100%)
b3221 Replace terminal equipment (bus conductor) on the 230 kV side of the Steel City 500/230 kV Transformer #1		PPL (100%)
b3222 Install one (1) 7.2 MVAR fixed cap bank on the Lock Haven – Reno 69 kV line and one (1) 7.2 MVAR fixed cap bank on the Lock Haven – Flemington 69 kV line near the Flemington 69/12 kV substation		PPL (100%)

* Neptune Regional Transmission System, LLC

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 9 PPL Electric Utilities Corpo

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b3664 Replace the limiting 230 kV T2 transformer leads, bay conductor and bus conductor with double bundle 1590 ACSR at the Juniata station; Replace the limiting 1200 A MODs on the bus tie breaker with 3000 A MODs		PPL (100%)

Attachment 5D – Cost Allocation of 2022/2023 ACE Schedule 12 Charges

Attachment 5D PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for ACE Projects

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2022 - May 2023 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix ACE Zone Share ¹ per PJM Open Access Transmission Tariff JCP&L Zone Share ¹ PSE&G Zone Share ¹ RE Zone Share ¹				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
Upgrade AE portion of Delco Tap	b0265	\$ 443,066.00	89.87%	9.48%	0.00%	0.00%	\$398,183	\$42,003	\$0	\$0	\$440,186
Replace Monroe 230/69 kV TXfmrs	b0276	\$ 678,062.00	91.28%	0.00%	8.29%	0.23%	\$618,935	\$0	\$56,211	\$1,560	\$676,706
Reconductor Union - Corson 138 kV	b0211	\$ 1,153,534.00	65.23%	25.87%	6.35%	0.00%	\$752,450	\$298,419	\$73,249	\$0	\$1,124,119
New 500/230 Kv Sub on Salem-East Windsor (>500 kV portion)	b0210.A	\$ 1,153,775.50	1.67%	3.92%	6.40%	0.27%	\$19,268	\$45,228	\$73,842	\$3,115	\$141,453
New 500/230 Kv Sub on Salem-East Windsor (>500 kV portion)	b0210.A_dfax	\$ 1,153,775.50	78.34%	21.66%	0.00%	0.00%	\$903,868	\$249,908	\$0	\$0	\$1,153,776
New 500/230kV Sub on Salem-East Windsor (< 500kV) portion ²	b0210.B	\$ 1,645,369.00	65.23%	25.87%	6.35%	0.00%	\$1,073,274	\$425,657	\$104,481	\$0	\$1,603,412
Reconductor the existing Mickleton – Gloucester 230 kV circuit (AE portion)	b1398.5	\$ 419,717.00	0.00%	12.82%	31.46%	1.25%	\$0	\$53,808	\$132,043	\$5,246	\$191,097
Build second 230kV parallel from Mickleton to Gloucester	b1398.3.1	\$ 1,307,433.00	0.00%	12.82%	31.46%	1.25%	\$0	\$167,613	\$411,318	\$16,343	\$595,274
Upgrade the Mill T2 138/69 kV Transformer	b1600	\$ 1,556,923.00	88.83%	4.74%	5.78%	0.23%	\$1,383,015	\$73,798	\$89,990	\$3,581	\$1,550,384

Attachment 5D PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for ACE Projects

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Orchard-Cumberland Install 2nd 230 kV line	b0210.1	\$ 1,379,652.00	65.23%	25.87%	6.35%	0.00%	\$899,947	\$356,916	\$87,608	\$0 \$1,344,471
Corson Upgrade 138kV Line trap	b0212	\$ 5,978.00	65.23%	25.87%	6.35%	0.00%	\$3,899	\$1,547	\$380	\$0 \$5,826

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 22/23	2022TX Peak Load per PJM website	Rate in \$/MW-mo.	2022 Impact (7 months)	2023 Impact (5 months)	2022-2023 Impact (12 months)
PSE&G	\$ 85,760.20	10,064.1	\$ 8.52	\$ 600,321	\$ 428,801	\$ 1,029,122
JCP&L	\$ 142,907.99	6,169.1	\$ 23.17	\$ 1,000,356	\$ 714,540	\$ 1,714,896
ACE	\$ 504,403.31	2,631.0	\$ 191.72	\$ 3,530,823	\$ 2,522,017	\$ 6,052,840
RE	\$ 2,487.09	427.4	\$ 5.82	\$ 17,410	\$ 12,435	\$ 29,845
Total Impact on NJ Zones	\$ 735,558.59			\$ 5,148,910	\$ 3,677,793	\$ 8,826,703

Notes on calculations >>>

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

Notes:

- 1) 2022 allocation share percentages are from PJM 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%)

* Neptune Regional Transmission System, LLC

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

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 500/230 kV substation in AEC area. The high side will be tapped on the Salem - East Windsor 500 kV circuit and the low side will be tapped on the Churchtown - Cumberland 230 kV circuit.		<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (78.34%) / JCPL (21.66%)</p>
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 500/230 kV substation in AEC area, the high side will be tapped on the Salem - East Windsor 500 kV circuit and the low side will be tapped on the Churchtown - Cumberland 230 kV circuit.		AEC (65.23%) / JCPL (25.87%) / NEPTUNE* (2.55%) / PSEG (6.35%)††

* Neptune Regional Transmission System, LLC

††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 138 kV circuit		AEC (65.23%) / JCPL (25.87%) / NEPTUNE* (2.55%) / PSEG (6.35%)
b0212 Substation upgrades at Union and Corson 138 kV		AEC (65.23%) / JCPL (25.87%) / NEPTUNE* (2.55%) / PSEG (6.35%)
b0214 Install 50 MVAR capacitor at Cardiff 230 kV 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%)

* Neptune Regional Transmission System, LLC

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	Reconducto 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	Reconducto the existing Mickleton – Gouestr 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	Reconducto Sherman Av – Carl's Corner 69 kV 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.

***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-1.

SCHEDULE 12 – APPENDIX A

(1) Atlantic City Electric Company

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2123	Upgrade the 69 kV bus at Laurel		AEC (100%)
b2226	Upgrade the Tackahoe to Mill 69 kV circuit		AEC (100%)
b2227	50 MVAR shunt reactor at Mickleton 230 kV and relocate Mickleton #1 230 69 kV transformer		AEC (100%)
b2228	+150/-100 MVAR SVC at Cedar 230 kV		AEC (100%)
b2296	Replace the Mickleton 230kV breaker PCB U with 63kA breaker		AEC (100%)
b2297	Replace the Mickleton 230kV breaker PCB V with 63kA breaker		AEC (100%)
b2305	Rebuild and reconductor 1.2 miles of the US Silica to US Silica #1 69 kV circuit		AEC (100%)
b2306	Rebuild and reconductor 1.67 miles of the US Silica #1 to W1-089 TAP 69 kV circuit		AEC (100%)
b2351	Reconductor section A of Corson - Sea Isle - Swainton 69 kV line		AEC (100%)
b2353	Upgrade the overcurrent protective relaying at Middle T3 and T4 138/69 kV transformers		AEC (100%)
b2354	Install second 230/69 kV transformer and 230 kV circuit breaker at Churchtown substation		AEC (100%)

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 1 Atlantic City Electric Comp

Atlantic City Electric Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2354.1	Replace Churchtown 69kV breaker 'D'		AEC (100%)
b2476	Install new Dennis 230/69 kV transformer		AEC (100%)
b2477	Upgrade 138 kV and 69 kV breakers at Corson substation		AEC (100%)
b2478	Reconductor 2.74 miles of Sherman - Lincoln 138 kV line and associated substation upgrades		AEC (100%)
b2479	New Orchard - Cardiff 230 kV line (remove, rebuild and reconfigure existing 138 kV line) and associated substation upgrades		AEC (100%)
b2480.1	New Upper Pittsgrove - Lewis 138 kV line and associated substation upgrades		AEC (100%)
b2480.2	Relocate Monroe to Deepwater Tap 138 kV to Landis 138 kV and associated substation upgrades		AEC (100%)
b2480.3	New Landis - Lewis 138 kV line and associated substation upgrades		AEC (100%)
b2481	New Cardiff - Lewis #2 138 kV line and associated substation upgrades		AEC (100%)
b2489	Install a 100 MVAR capacitor at BL England		AEC (100%)

Atlantic City Electric Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2538	Replace the Mickleton 230kV 'MK' breaker with 63kA breaker		AEC (100%)
b2553	Replace Middle T3 138/69 kV transformer with 225 MVA nameplate		AEC (100%)
b2723.1	Replace the Mickleton 69 kV 'PCB A' breaker with 63kA breaker		AEC (100%)
b2723.2	Replace the Mickleton 69 kV 'PCB B' breaker with 63kA breaker		AEC (100%)
b2723.3	Replace the Mickleton 69 kV 'PCB C' breaker with 63kA breaker		AEC (100%)
b2723.4	Replace the Mickleton 69 kV 'PCB Q' breaker with 63kA breaker		AEC (100%)
b2839	Replace the Sickler 69 kV 'H' breaker with 63kA breaker		AEC (100%)
b2840	Replace the Sickler 69 kV 'M' breaker with 63kA breaker		AEC (100%)
b2841	Replace the Sickler 69 kV 'A' breaker with 63kA breaker		AEC (100%)
b2945.1	Rebuild the BL England – Middle Tap 138 kV line to 2000A on double circuited steel poles and new foundations		AEC (100%)
b2945.2	Reconductor BL England – Merion 138 kV (1.9 miles) line		AEC (100%)
b2945.3	Reconductor Merion – Corson 138 kV (8 miles) line		AEC (100%)

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 1 Atlantic City Electric Comp

Atlantic City Electric Company (cont.)

	Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b3135	Install back-up relay on the 138 kV bus at Corson substation		AEC (100%)
b3226	Add 10 MVAR 69 kV capacitor bank at Swainton substation		AEC (100%)
b3227	Rebuild the Corson – Court 69 kV line to achieve ratings equivalent to 795 ACSR conductor or better		AEC (100%)

Attachment 5E – Cost Allocation of 2022/2023 Delmarva Schedule 12 Charges

Attachment 5E PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023
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 2022-May 2023 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix ACE Zone Share ¹ JCP&L Zone Share ¹ PSE&G Zone Share ¹ RE Zone Share ¹				Estimated New Jersey EDC Zone Charges by Project				
			per PJM Open Access Transmission Tariff				ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
Replace line trap-Keeney	b0272.1	\$ 10,413.50	1.67%	3.92%	6.40%	0.27%	\$174	\$408	\$666	\$28	\$1,277
Replace line trap-Keeney	b0272.1_dfax	\$ 10,413.50	17.53%	0.00%	3.01%	0.12%	\$1,825	\$0	\$313	\$12	\$2,151
Add two breakers-Keeney	b0751	\$ 241,848.50	1.67%	3.92%	6.40%	0.27%	\$4,039	\$9,480	\$15,478	\$653	\$29,651
Add two breakers-Keeney	b0751_dfax	\$ 241,848.50	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Interconnect new Silver Run 230 kV Substation	b2633.1	\$ 646,408.00	8.01%	13.85%	20.79%	0.62%	\$51,777	\$89,528	\$134,388	\$4,008	\$279,701
Totals							\$57,816	\$99,416	\$150,846	\$4,701	\$312,779

Notes on calculations >>>

$$\begin{aligned} &= (a) * (b) & &= (a) * (c) & &= (a) * (d) & &= (a) * (e) & &= (f) + (g) + \\ & & & & & & & & & & (h) + (i) \end{aligned}$$

	(k)	(l)	(m)	(n)	(o)	(p)
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 22/23	2022TX Peak Load per PJM website	Rate in \$/MW-mo.	2022 Impact (7 months)	2023 Impact (5 months)	2022-2023 Impact (12 months)
PSEG	\$ 12,570.54	10,064.1	\$ 1.25	\$ 87,994	\$ 62,853	\$ 150,846
JCP&L	\$ 8,284.68	6,169.1	\$ 1.34	\$ 57,993	\$ 41,423	\$ 99,416
ACE	\$ 4,817.96	2,631.0	\$ 1.83	\$ 33,726	\$ 24,090	\$ 57,816
RE	\$ 391.78	427.4	\$ 0.92	\$ 2,742	\$ 1,959	\$ 4,701
Total Impact on NJ Zones	\$ 26,064.96			\$ 182,455	\$ 130,325	\$ 312,779

Notes on calculations >>>

$$\begin{aligned} &= (k) * (l) & &= (k) * 7 & &= (k) * 5 & &= (n) * (o) \end{aligned}$$

Notes:

1) 2022 allocation share percentages are from PJM 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%)

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		<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (17.53%) / BGE (1.84%) / DPL (43.46%) / PECO (18.79%) / PEPCO (1.52%) / PPL (13.73%) / PSEG (3.01%) / RE (0.12%)</p>
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%)

*Neptune Regional Transmission System, LLC

Delmarva Power & Light Company (cont.)

	Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0295	Raise conductor temperature of North Seaford – Pine Street – Dupont Seaford		DPL (100%)
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		<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>
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%)

*Neptune Regional Transmission System, LLC

Delmarva Power & Light Company (cont.)

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

**East Coast Power, LLC

Delmarva Power & Light Company (cont.)

	Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
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%)
b0751	Add two additional breakers at Keeney 500 kV		Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
			DFAX Allocation: DPL (100%)
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%)

*Neptune Regional Transmission System, LLC

Delmarva Power & Light Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0873 Build 2nd Glasgow-Mt Pleasant 138 kV line		DPL (100%)
b0874 Reconfigure Brandywine substation		DPL (100%)
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%)

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)

	Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1899.1	Install new variable reactors at Indian River and Nelson 138 kV		DPL (100%)
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 138 kV line from Piney Grove – Wattsville		DPL (100%)
b2395	Reconductor the Harmony – Chapel St 138 kV circuit		DPL (100%)
b2569	Replace Terminal equipment at Silverside 69 kV substation		DPL (100%)
b2633.7	Implement high speed relaying utilizing OPGW on Red Lion – Hope Creek 500 kV line		Load-Ratio Share Allocation: AEC (1.71%) / AEP (14.04%) / APS (5.61%) / ATSI (8.10%) / BGE (4.36%) / ComEd (13.14%) / Dayton (2.15%) / DEOK (3.23%) / DL (1.73%) / DPL (2.65%) / Dominion (13.03%) / EKPC (1.77%) / JCPL (3.84%) / ME (1.93%) / NEPTUNE* (0.45%) / OVEC (0.07%) / PECO (5.29%) / PENELEC (1.89%) / PEPCO (3.82%) / PPL (4.72%) / PSEG (6.21%) / RE (0.26%)
b2633.10	Interconnect the new Silver Run 230 kV substation with existing Red Lion – Cartanza and Red Lion – Cedar Creek 230 kV lines		DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
			AEC (8.01%) / BGE (1.94%) / DPL (12.99%) / JCPL (13.85%) / ME (5.88%) / NEPTUNE* (3.45%) / PECO (17.62%) / PPL (14.85%) / PSEG (20.79%) / RE (0.62%)

*Neptune Regional Transmission System, LLC

Delmarva Power & Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

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

Delmarva Power & Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

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

Delmarva Power & Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

	Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b3326	Rebuild the Vienna - Nelson 138 kV line		DPL (100%)
b3327	Upgrade the disconnect switch at Kent 69 kV station		DPL (100%)
b3328	Upgrade the disconnect switch and CT at Vienna 138 kV station		DPL (100%)
b3329	Rebuild the Farmview - Milford 138 kV line		DPL (100%)
b3330	Rebuild the Farmview - S. Harrington 138 kV line		DPL (100%)
b3331	Upgrade stranded bus and relay at Seaford 138 kV station		DPL (100%)
b3332	Rebuild the Steel - Milford 230 kV line		DPL (100%)

Attachment 5F – Cost Allocation of 2022/2023 PEPCO Schedule 12 Charges

Attachment 5F PJM Schedule 12 - Transmission Enhancement Charges for June 2022 to May 2023
 Calculation of costs and monthly PJM charges for PEPCO Projects

Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2022-May 2023 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 Transmission Tariff	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	\$ 2,329,621.00	1.78%	2.67%	3.81%	0.00%	\$41,467	\$62,201	\$88,759	\$0	\$192,427
Replace 230 1A breaker	b0512.7	\$ 110,593.50	1.67%	3.92%	6.40%	0.27%	\$1,847	\$4,335	\$7,078	\$299	\$13,559
Replace 230 1A breaker	b0512.7_dfax	\$ 110,593.50	3.94%	9.43%	14.71%	0.54%	\$4,357	\$10,429	\$16,268	\$597	\$31,652
Replace 230 1B breaker	b0512.8	\$ 110,593.50	1.67%	3.92%	6.40%	0.27%	\$1,847	\$4,335	\$7,078	\$299	\$13,559
Replace 230 1B breaker	b0512.8_dfax	\$ 110,593.50	3.94%	9.43%	14.71%	0.54%	\$4,357	\$10,429	\$16,268	\$597	\$31,652
Replace 230 2A breaker	b0512.9	\$ 110,593.50	1.67%	3.92%	6.40%	0.27%	\$1,847	\$4,335	\$7,078	\$299	\$13,559
Replace 230 2A breaker	b0512.9_dfax	\$ 110,593.50	3.94%	9.43%	14.71%	0.54%	\$4,357	\$10,429	\$16,268	\$597	\$31,652
Replace 230 3A breaker	b0512.12	\$ 111,749.00	1.67%	3.92%	6.40%	0.27%	\$1,866	\$4,381	\$7,152	\$302	\$13,700
Replace 230 3A breaker	b0512.12_dfax	\$ 111,749.00	3.94%	9.43%	14.71%	0.54%	\$4,403	\$10,538	\$16,438	\$603	\$31,983
Ritchie-Benning 230 lines	b0526	\$ 6,647,900.00	0.77%	1.39%	2.10%	0.08%	\$51,189	\$92,406	\$139,606	\$5,318	\$288,519
Reconductor Dickerson-Pleasant View 230 kV	b0467.1	\$ 990,145.00	1.75%	0.71%	0.00%	0.00%	\$17,328	\$7,030	\$0	\$0	\$24,358
Reconductor Dickerson station H and Upgrade Equipment	b1596	\$ 1,139,687.00	0.80%	0.00%	0.00%	0.00%	\$9,117	\$0	\$0	\$0	\$9,117
Equipment Totals							\$143,983	\$220,848	\$321,994	\$8,911	\$695,735

Notes on calculations >>>

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

Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 22/23	2022TX Peak Load per PJM website	Rate in \$/MW-mo.	2022 Impact (7 months)	2023 Impact (5 months)	2022-2023 Impact (12 months)
PSE&G	\$ 26,832.79	10,064.1	\$ 2.67	\$ 187,830	\$ 134,164	\$ 321,994
JCP&L	\$ 18,403.99	6,169.1	\$ 2.98	\$ 128,828	\$ 92,020	\$ 220,848
ACE	\$ 11,998.59	2,631.0	\$ 4.56	\$ 83,990	\$ 59,993	\$ 143,983
RE	\$ 742.58	427.4	\$ 1.74	\$ 5,198	\$ 3,713	\$ 8,911
Total Impact on NJ Zones	\$ 57,977.96			\$ 405,846	\$ 289,890	\$ 695,735

Notes on calculations >>>

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

Notes:

1) 2022 allocation share percentages are from PJM 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%)
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%)

* 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)
b0367.2 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%)

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**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)
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	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>
b0512.7	Advance n0772 (Replace Chalk Point 230 kV breaker (1A) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>

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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)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p>
b0512.9	Advance n0774 (Replace Chalk Point 230 kV breaker (2A) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>

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Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.10	Advance n0775 (Replace Chalk Point 230 kV breaker (2B) with 80 kA breaker)	<p>Load-Ratio Share Allocation:</p> <p>AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation:</p> <p>AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>
b0512.11	Advance n0776 (Replace Chalk Point 230 kV breaker (2C) with 80 kA breaker)	<p>Load-Ratio Share Allocation:</p> <p>AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation:</p> <p>AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>

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Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.12	Advance n0777 (Replace Chalk Point 230 kV breaker (3A) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>
b0512.13	Advance n0778 (Replace Chalk Point 230 kV breaker (3B) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>

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Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.14	Advance n0779 (Replace Chalk Point 230 kV breaker (3C) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>
b0512.15	Advance n0780 (Replace Chalk Point 230 kV breaker (4A) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>

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Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.16	Advance n0781 (Replace Chalk Point 230 kV breaker (4B) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>
b0512.17	Advance n0782 (Replace Chalk Point 230 kV breaker (5A) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>

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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)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>
b0512.19	Advance n0784 (Replace Chalk Point 230 kV breaker (6A) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>

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Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.20	Advance n0785 (Replace Chalk Point 230 kV breaker (6B) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>
b0512.21	Advance n0786 (Replace Chalk Point 230 kV breaker (7B) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>

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Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.22	Advance n0787 (Replace Chalk Point 230 kV breaker (8A) with 80 kA breaker)	<p>Load-Ratio Share Allocation:</p> <p>AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p>
b0512.23	Advance n0788 (Replace Chalk Point 230 kV breaker (8B) with 80 kA breaker)	<p>Load-Ratio Share Allocation:</p> <p>AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p>

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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)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>
b0512.25	Advance n0790 (Replace Chalk Point 230 kV breaker (1C) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>

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* Neptune Regional Transmission System, LLC

Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.26	Advance n0791 (Replace Chalk Point 230 kV breaker (4C) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>
b0512.27	Advance n0792 (Replace Chalk Point 230 kV breaker (5C) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 – APPENDIX --> OATT SCHEDULE 12.APPENDIX 10 Potomac Electric Power Compan

* Neptune Regional Transmission System, LLC

Potomac Electric Power Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0512.28	Advance n0793 (Replace Chalk Point 230 kV breaker (6C) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>
b0512.29	Advance n0794 (Replace Chalk Point 230 kV breaker (7C) with 80 kA breaker)	<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (3.94%) / APS (0.33%) / BGE (34.54%) / DPL (14.69%) / Dominion (0.30%) / JCPL (9.43%) / ME (2.16%) / NEPTUNE* (0.90%) / PECO (10.52%) / PEPCO (2.44%) / PPL (5.50%) / PSEG (14.71%) / RE (0.54%)</p>

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* Neptune Regional Transmission System, LLC

Potomac Electric Power Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0526	Build two Ritchie – Benning Station A 230 kV lines		AEC (0.77%) / BG (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%)
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%)

*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)
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%)

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%)

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.

***Hudson Transmission Partners, LLC

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 5G – Cost Allocation of 2022/2023 PECO Schedule 12 Charges

Attachment 5G - Transmission Enhancement Charges for June 2021 - May 2022
 Calculation of costs and monthly PJM charges for PECO Energy Company Transmission Projects

Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2022-May 2023 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix				ACE Zone Charges	Estimated New Jersey EDC Zone Charges by Project			Total NJ Zones Charges
			ACE Zone Share ¹	JCP&L Zone Share ¹	PSE&G Zone Share ¹	RE Zone Share ¹		JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	
Install a new 500 kV Center Point substation in PECO by tapping the Elroy – Whitpain 500 kV circuit.	b0269	\$ 2,637,829.50	1.67%	3.92%	6.40%	0.27%	\$44,052	\$103,403	\$168,821	\$7,122	\$323,398
Install a new 500 kV Center Point substation in PECO by tapping the Elroy – Whitpain 500 kV circuit.	b0269_dfax	\$ 2,637,829.50	6.70%	0.00%	0.00%	0.00%	\$176,735	\$0	\$0	\$0	\$176,735
Add a new 230 kV circuit between Whitpain and Heaton substations	b0269.10	\$ 1,882,353.00	8.25%	0.00%	0.00%	0.00%	\$155,294	\$0	\$0	\$0	\$155,294
Add a new 500kV brkr. at Whitpain bet. #3 transfrm. and 5029 line	b0269.6	\$ 224,626.00	1.67%	3.92%	6.40%	0.27%	\$3,751	\$8,805	\$14,376	\$606	\$27,539
Add a new 500kV brkr. at Whitpain bet. #3 transfrm. and 5029 line	b0269.6_dfax	\$ 224,626.00	6.70%	0.00%	0.00%	0.00%	\$15,050	\$0	\$0	\$0	\$15,050
Replace 2-500 kV circit brkrs and 2 wave traps at Elroy subs to increase rating of Elroy - Hossensack 500kV	b0171.1	\$ 303,041.00	1.67%	3.92%	6.40%	0.27%	\$5,061	\$11,879	\$19,395	\$818	\$37,153
Replace 2-500 kV circit brkrs and 2 wave traps at Elroy subs to increase rating of Elroy - Hossensack 500kV	b0171.1_dfax	\$ 303,041.00	9.80%	19.56%	0.00%	0.00%	\$29,698	\$59,275	\$0	\$0	\$88,973
Increase the rating of lines 220-39 and 220-43 (Linwood-Chichester 230kV lines) and install reactors.	b1900	\$ 4,454,800.00	0.00%	6.02%	20.83%	0.83%	\$0	\$268,179	\$927,935	\$36,975	\$1,233,089
Rebuild Bryn Mawr-Plymouth Meeting 138 kV line (130-35 Line)	b0727	\$ 2,693,506.00	1.25%	0.00%	0.00%	0.00%	\$33,669	\$0	\$0	\$0	\$33,669
Recndr Chichester - Saville 138 kV line and upgrade term equip	b1182	\$ 2,573,658.00	0.00%	5.08%	14.20%	0.56%	\$0	\$130,742	\$365,459	\$14,412	\$510,614
Add a second 230/138 kV trans at Chichester. Add an inductor in series with the parallel tranfmrs	b1178	\$ 1,179,805.00	0.00%	4.14%	12.10%	0.48%	\$0	\$48,844	\$142,756	\$5,663	\$197,263
Increase Bradford - Planebrook 230 kV Ckt.220-31 line rating. Replace terminal equipment	b0790	\$ 250,240.00	0.00%	17.30%	33.68%	1.31%	\$0	\$43,292	\$84,281	\$3,278	\$130,850
Reconducto the North Wales - Hartman 230 kV circuit	b0506	\$ 312,135.00	8.58%	0.00%	0.00%	0.00%	\$26,781	\$0	\$0	\$0	\$26,781
Reconducto the North Wales - Whitpain 230 kV circuit	b0505	\$ 349,633.00	8.58%	0.00%	0.00%	0.00%	\$29,999	\$0	\$0	\$0	\$29,999
Increase Bradford - Planebrook 230 kV Ckt.220-02 line rating. Replace terminal equipment	b0789	\$ 342,651.00	0.72%	17.36%	33.52%	1.31%	\$2,467	\$59,484	\$114,857	\$4,489	\$181,297
Install 161MVAR capacitor at Planebrook 230kV substation	b0206	\$ 470,622.00	14.20%	0.00%	3.47%	0.00%	\$66,828	\$0	\$16,331	\$0	\$83,159
Install 161MVAR capacitor at Newlinville 230kV substation	b0207	\$ 633,392.00	14.20%	0.00%	3.47%	0.00%	\$89,942	\$0	\$21,979	\$0	\$111,920

Attachment 5G - Transmission Enhancement Charges for June 2021 - May 2022
 Calculation of costs and monthly PJM charges for PECO Energy Company Transmission Projects

Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2022-May 2023 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix per PJM Open Access Transmission Tariff				ACE Zone Charges	Estimated New Jersey EDC Zone Charges by Project			Total NJ Zones Charges
			ACE Zone Share ¹	JCP&L Zone Share ¹	PSE&G Zone Share ¹	RE Zone Share ¹		JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	
Install 2% series reactor at Chichester substation on the Chichester - Mickleton 230kV circuit	b0209	\$ 358,618.00	65.23%	25.87%	6.35%	0.00%	\$233,927	\$92,774	\$22,772	\$0	\$349,473
Upgrade Chichester - Delco Tap 230kV and the PECO portion of the Delco Tap - Mickleton 230kV circuit	b0264	\$ 298,003.00	89.87%	9.48%	0.00%	0.00%	\$267,815	\$28,251	\$0	\$0	\$296,066
Reconductor Buckingham - Pleasant Valley 230kV; same impedance as existing line; ratings of 760MVA normal/882MVA emergency	b0357	\$ 292,915.00	0.00%	37.17%	54.14%	2.32%	\$0	\$108,877	\$158,584	\$6,796	\$274,256
Reconductor Richmond-Waneeta kv and replace terminal equipment at Waneeta Substation	b1398.8	\$ 228,217.00	0.00%	12.82%	31.46%	1.25%	\$0	\$29,257	\$71,797	\$2,853	\$103,907
Install 600 MVAR cap banks at Elroy 500kv Substation	b0287	\$ 373,790.00	1.67%	3.92%	6.40%	0.27%	\$6,242	\$14,653	\$23,923	\$1,009	\$45,827
Install 600 MVAR cap banks at Elroy 500kv Substation	b2087_dfax	\$ 373,790.00	9.80%	19.56%	0.00%	0.00%	\$36,631	\$73,113	\$0	\$0	\$109,745
Install 161 MVAR capacitor at Heaton 230kV Substation	b0208	\$ 561,301.00	14.20%	0.00%	3.47%	0.00%	\$79,705	\$0	\$19,477	\$0	\$99,182
Increase Ratings at Peach Bottom 500/230kV Tfmr to 1839 MVA Emgcy	b2694	\$ 1,586,968.00	3.97%	6.84%	14.13%	0.44%	\$63,003	\$108,549	\$224,239	\$6,983	\$402,772
Upgrade sub equipment at Peach Bottom	b2766.2	\$ 53,250.50	1.67%	3.92%	6.40%	0.27%	\$889	\$2,087	\$3,408	\$144	\$6,529
Upgrade sub equipment at Peach Bottom	b2766.2_dfax	\$ 53,250.50	0.72%	0.00%	12.92%	0.50%	\$383	\$0	\$6,880	\$266	\$7,530
							\$1,367,922	\$1,191,464	\$2,407,269	\$91,414	\$5,058,069

Notes on calculations >>>

$$\begin{aligned} &= (a) * (b) & &= (a) * (c) & &= (a) * (d) & &= (a) * (e) & &= (f) + (g) + \\ & & & & & & & & & & (h) + (i) \end{aligned}$$

Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 22/23	2022TX Peak Load per PJM website	Rate in \$/MW-mo.	2022 Impact (7 months)	2023 Impact (5 months)	2022-2023 Impact (12 months)
PSE&G	\$ 200,605.75	10,064.1	\$ 19.93	\$ 1,404,240	\$ 1,003,029	\$ 2,407,269
JCP&L	\$ 99,288.64	6,169.1	\$ 16.09	\$ 695,021	\$ 496,443	\$ 1,191,464
ACE	\$ 113,993.47	2,631.0	\$ 43.33	\$ 797,954	\$ 569,967	\$ 1,367,922
RE	\$ 7,617.86	427.4	\$ 17.82	\$ 53,325	\$ 38,089	\$ 91,414
Total Impact on NJ Zones	\$ 421,505.72			\$ 2,950,540	\$ 2,107,529	\$ 5,058,069

Notes on calculations >>>

$$\begin{aligned} &= (k) * (l) & &= (k) * 7 & &= (k) * 5 & &= (k) * 12 \end{aligned}$$

Attachment 5G - Transmission Enhancement Charges for June 2021 - May 2022
 Calculation of costs and monthly PJM charges for PECO Energy Company Transmission Projects

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2022-May 2023 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix ACE Zone Share ¹ JCP&L Zone Share ¹ PSE&G Zone Share ¹ RE Zone Share ¹ <i>per PJM Open Access Transmission Tariff</i>				Estimated New Jersey EDC Zone Charges by Project ACE Zone Charges JCP&L Zone Charges PSE&G Zone Charges RE Zone Charges			

Notes:

1) 2022 allocation share percentages are from PJM OATT

SCHEDULE 12 – APPENDIX**(8) PECO Energy Company**

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0171.1 Replace two 500 kV circuit breakers and two wave traps at Elroy substation to increase rating of Elroy - Hosensack 500 kV		<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (9.80%) / DPL (8.43%) / JCPL (19.56%) / PECO (62.21%)</p>
b0180 Replace Whitpain 230 kV circuit breaker #165		PECO (100%)
b0181 Replace Whitpain 230 kV circuit breaker #J105		PECO (100%)
b0182 Upgrade Plymouth Meeting 230 kV circuit breaker #125		PECO (100%)
b0205 Install three 28.8 Mvar capacitors at Planebrook 35 kV substation		PECO (100%)
b0206 Install 161 Mvar capacitor at Planebrook 230 kV substation		AEC (14.20%) / DPL (24.39%) / PECO (57.94%) / PSEG (3.47%)

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PECO Energy Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0207	Install 161 Mvar capacitor at Newlinville 230 kV substation		AEC (14.20%) / DPL (24.39%) / PECO (57.94%) / PSEG (3.47%)
b0208	Install 161 Mvar capacitor Heaton 230 kV substation		AEC (14.20%) / DPL (24.39%) / PECO (57.94%) / PSEG (3.47%)
b0209	Install 2% series reactor at Chichester substation on the Chichester - Mickleton 230 kV circuit		AEC (65.23%) / JCPL (25.87%)/ NEPTUNE* (2.55%) / PSEG (6.35%)
b0264	Upgrade Chichester – Delco Tap 230 kV and the PECO portion of the Delco Tap – Mickleton 230 kV circuit		AEC (89.87%) / JCPL (9.48%) / NEPTUNE* (0.65%)
b0266	Replace two wave traps and ammeter at Peach Bottom, and two wave traps and ammeter at Newlinville 230 kV substations		PECO (100%)
b0269	Install a new 500 kV Center Point substation in PECO by tapping the Elroy – Whitpain 500 kV circuit		Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)†
			DFAX Allocation: AEC (6.70%) / PECO (93.30%)

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

PECO Energy Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0269.1	Add a new 230 kV circuit between Whitpain and Heaton substations		AEC (8.25%) / DPL (9.56%) / PECO (82.19%)††
b0269.2	Reconducto the Whitpain 1 – Plymtg 1 230 kV circuit		AEC (8.25%) / DPL (9.56%) / PECO (82.19%)††
b0269.3	Convert the Heaton bus to a ring bus		AEC (8.25%) / DPL (9.56%) / PECO (82.19%)††
b0269.4	Reconducto the Heaton – Warminster 230 kV circuit		AEC (8.25%) / DPL (9.56%) / PECO (82.19%)††
b0269.5	Reconducto Warminster – Buckingham 230 kV circuit		AEC (8.25%) / DPL (9.56%) / PECO (82.19%)††

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

PECO Energy Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0269.6	Add a new 500 kV breaker at Whitpain between #3 transformer and 5029 line	Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)
		DFAX Allocation: AEC (6.70%) / PECO (93.30%)
b0269.7	Replace North Wales 230 kV breaker #105	PECO (100%)
b0269.10	Install a new 230 kV Center Point substation in PECO by tapping the North Wales – Perkiomen 230 kV circuit. Install a new 500/230 kV Center Point transformer	AEC (8.25%) / DPL (9.56%) / PECO (82.19%)††
b0280.1	Install 161 MVAR capacitor at Warrington 230 kV substation	PECO 100%
b0280.2	Install 161 MVAR capacitor at Bradford 230 kV substation	PECO 100%
b0280.3	Install 28.8 MVAR capacitor at Warrington 34 kV substation	PECO 100%

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

PECO Energy Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0280.4	Install 18 MVAR capacitor at Waverly 13.8 kV substation		PECO 100%
b0287	Install 600 MVAR Dynamic Reactive Device in Whitpain 500 kV vicinity		<p>Load-Ratio Share Allocation: AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)</p> <p>DFAX Allocation: AEC (9.80%) / DPL (8.43%) / JCPL (19.56%) / PECO (62.21%)</p>
b0351	Reconductor Tunnel – Grays Ferry 230 kV		PECO (100%)
b0352	Reconductor Tunnel – Parrish 230 kV		PECO (100%)
b0353.1	Install 2% reactors on both lines from Eddystone – Llanerch 138 kV		PECO (100%)
b0353.2	Install identical second 230/138 kV transformer in parallel with existing 230/138 kV transformer at Plymouth Meeting		PECO 100%
b0353.3	Replace Whitpain 230 kV breaker 135		PECO (100%)
b0353.4	Replace Whitpain 230 kV breaker 145		PECO (100%)

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PECO Energy Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0354	Eddystone – Island Road Upgrade line terminal equipment		PECO 100%
b0355	Reconductor Master – North Philadelphia 230 kV line		PECO 100%
b0357	Reconductor Buckingham – Pleasant Valley 230 kV		JCPL (37.17%) / NEPTUNE* (4.46%) / PSEG (54.14%) / RE (2.32%) / ECP** (1.91%)
b0359	Reconductor North Philadelphia – Waneeta 230 kV circuit		PECO 100%
b0402.1	Replace Whitpain 230 kV breaker #245		PECO (100%)
b0402.2	Replace Whitpain 230 kV breaker #255		PECO (100%)
b0438	Spare Whitpain 500/230 kV transformer		PECO (100%)
b0443	Spare Peach Bottom 500/230 kV transformer		PECO (100%)
b0505	Reconductor the North Wales – Whitpain 230 kV circuit		AEC (8.58%) / DPL (7.76%) / PECO (83.66%)
b0506	Reconductor the North Wales – Hartman 230 kV circuit		AEC (8.58%) / DPL (7.76%) / PECO (83.66%)
b0507	Reconductor the Jarrett – Whitpain 230 kV circuit		AEC (8.58%) / DPL (7.76%) PECO (83.66%)
b0508.1	Replace station cable at Hartman on the Warrington - Hartman 230 kV circuit		PECO (100%)
b0509	Reconductor the Jarrett – Heaton 230 kV circuit		PECO (100%)

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PECO Energy Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0727 Rebuild Bryn Mawr – Plymouth Meeting 138 kV line		AEC (1.25%) / DPL (3.11%) / PECO (95.64%)
b0789 Reconducto the line to provide a normal rating of 677 MVA and an emergency rating of 827 MVA		AEC (0.72%) / JCPL (17.36%) / NEPTUNE* (1.70%) / PECO (44.47%) / ECP** (0.92%) / PSEG (33.52%) / RE (1.31%)
b0790 Reconducto the Bradford – Planebrook 230 kV Ckt. 220-31 to provide a normal rating of 677 MVA and emergency rating of 827 MVA		JCPL (17.30%) / NEPTUNE* (1.69%) / PECO (45.09%) / ECP** (0.93%) / PSEG (33.68%) / RE (1.31%)
b0829.1 Replace Whitpain 230 kV breaker '155'		PECO (100%)
b1073 Install 2 new 230 kV breakers at Planebrook (on the 220-02 line terminal and on the 230 kV side of the #9 transformer)		PECO (100%)
b0829.2 Replace Whitpain 230 kV breaker '525'		PECO (100%)
b0829.3 Replace Whitpain 230 kV breaker '175'		PECO (100%)
b0829.4 Replace Plymouth Meeting 230 kV breaker '225'		PECO (100%)
b0829.5 Replace Plymouth Meeting 230 kV breaker '335'		PECO (100%)
b0841 Move the connection points for the 2nd Plymouth Meeting 230/138 kV XFMR		PECO (100%)

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PECO Energy Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
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b0842	Install a 2nd 230/138 kV XFMR and 35 MVAR CAP at Heaton 138 kV bus		PECO (100%)
b0842.1	Replace Heaton 138 kV breaker '150'		PECO (100%)
b0843	Install a 75 MVAR CAP at Llanerch 138 kV bus		PECO (100%)
b0844	Move the connection point for the Llanerch 138/69 kV XFMR		PECO (100%)
b0887	Replace Richmond-Tacony 69 kV line		PECO (100%)
b0920	Replace station cable at Whitpain and Jarrett substations on the Jarrett - Whitpain 230 kV circuit		PECO (100%)
b1014.1	Replace Circuit breaker, Station Cable, CTs and Wave Trap at Eddystone 230 kV		PECO (100%)
b1014.2	Replace Circuit breaker, Station Cable, CTs Disconnect Switch and Wave Trap at Island Rd. 230 kV		PECO (100%)
b1015	Replace Breakers #115 and #125 at Printz 230 kV substation		PECO (100%)
b1156.1	Upgrade at Richmond 230 kV breaker '525'		PECO (100%)
b1156.2	Upgrade at Richmond 230 kV breaker '415'		PECO (100%)
b1156.3	Upgrade at Richmond 230 kV breaker '475'		PECO (100%)
b1156.4	Upgrade at Richmond 230 kV breaker '575'		PECO (100%)

PECO Energy Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1156.5	Upgrade at Richmond 230 kV breaker '185'	PECO (100%)
b1156.6	Upgrade at Richmond 230 kV breaker '285'	PECO (100%)
b1156.7	Upgrade at Richmond 230 kV breaker '85'	PECO (100%)
b1156.8	Upgrade at Waneeta 230 kV breaker '425'	PECO (100%)
b1156.9	Upgrade at Emilie 230 kV breaker '815'	PECO (100%)
b1156.10	Upgrade at Plymouth Meeting 230 kV breaker '265'	PECO (100%)
b1156.11	Upgrade at Croydon 230 kV breaker '115'	PECO (100%)
b1156.12	Replace Emilie 138 kV breaker '190'	PECO (100%)
b1178	Add a second 230/138 kV transformer at Chichester. Add an inductor in series with the parallel transformers	JCPL (4.14%) / Neptune* (0.44%) / PECO (82.19%) / ECP** (0.33%) / HTP*** (0.32%) / PSEG (12.10%) / RE (0.48%)
b1179	Replace terminal equipment at Eddystone and Saville and replace underground section of the line	PECO (100%)
b1180.1	Replace terminal equipment at Chichester	PECO (100%)
b1180.2	Replace terminal equipment at Chichester	PECO (100%)
b1181	Install 230/138 kV transformer at Eddystone	PECO (100%)

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PECO Energy Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1182 Reconductor Chichester – Saville 138 kV line and upgrade terminal equipment		JCPL (5.08%) / Neptune* (0.54%) / PECO (78.85%) / ECP** (0.39%) / HTP*** (0.38%) / PSEG (14.20%) / RE (0.56%)
b1183 Replace 230/69 kV transformer #6 at Cromby. Add two 50 MVAR 230 kV banks at Cromby		PECO (100%)
b1184 Add 138 kV breakers at Cromby, Perkiomen, and North Wales; add a 35 MVAR capacitor at Perkiomen 138 kV		PECO (100%)
b1185 Upgrade Eddystone 230 kV breaker #365		PECO (100%)
b1186 Upgrade Eddystone 230 kV breaker #785		PECO (100%)
b1197 Reconductor the PECO portion of the Burlington – Croydon circuit		PECO (100%)
b1198 Replace terminal equipments including station cable, disconnects and relay at Conowingo 230 kV station		PECO (100%)
b1338 Replace Printz 230 kV breaker '225'		PECO (100%)
b1339 Replace Printz 230 kV breaker '315'		PECO (100%)
b1340 Replace Printz 230 kV breaker '215'		PECO (100%)
b1398.6 Reconductor the Camden – Richmond 230 kV circuit (PECO 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%)

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PECO Energy Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1398.8 Reconductor Richmond – Waneeta 230 kV and replace terminal equipments at Richmond and Waneeta 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%)
b1398.12 Replace Graysferry 230 kV breaker '115'		PECO (100%)
b1398.13 Upgrade Peach Bottom 500 kV breaker '225'		AEC (1.67%) / AEP (13.94%) / APS (5.64%) / ATSI (8.02%) / BGE (4.12%) / ComEd (13.46%) / Dayton (2.12%) / DEOK (3.37%) / DL (1.76%) / DPL (2.55%) / Dominion (12.97%) / EKPC (1.81%) / JCPL (3.92%) / ME (1.95%) / NEPTUNE* (0.24%) / OVEC (0.07%) / PECO (5.39%) / PENELEC (1.84%) / PEPCO (3.71%) / PPL (4.78%) / PSEG (6.40%) / RE (0.27%)†
b1398.14 Replace Whitpain 230 kV breaker '105'		PECO (100%)
b1590.1 Upgrade the PECO portion of the Camden – Richmond 230 kV to a six wire conductor and replace terminal equipment at Richmond.		BGE (3.05%) / ME (0.83%) / HTP*** (0.21%) / PECO (91.36%) / PEPCO (1.93%) / PPL (2.46%) / ECP** (0.16%)
b1591 Reconductor the underground portion of the Richmond – Waneeta 230 kV and replace terminal equipment		BGE (4.54%) / DL (0.27%) / ME (1.04%) / HTP*** (0.03%) / PECO (88.08%) / PEPCO (2.79%) / PPL (3.25%)

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

PECO Energy Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1717 Install a second Waneeta 230/138 kV transformer on a separate bus section		HTP*** (0.04%) / PECO (99.96%)
b1718 Reconductor the Crescentville - Foxchase 138 kV circuit		PECO (100%)
b1719 Reconductor the Foxchase - Bluegrass 138 kV circuit		PECO (100%)
b1720 Increase the effective rating of the Eddystone 230/138 kV transformer by replacing a circuit breaker at Eddystone		PECO (100%)
b1721 Increase the rating of the Waneeta - Tuna 138 kV circuit by replacing two 138 kV CTs at Waneeta		PECO (100%)
b1722 Increase the normal rating of the Cedarbrook - Whitemarsh 69 kV circuit by changing the CT ratio and replacing station cable at Whitemarsh 69 kV		PECO (100%)
b1768 Install 39 MVAR capacitor at Cromby 138 kV bus		PECO (100%)
b1900 Add a 3rd 230 kV transmission line between Chichester and Linwood substations and remove the Linwood SPS		PECO (69.62%) / JCPL (6.02%) / ATSI (1.23%) / PSEG (20.83%) / RE (0.83%) / NEPTUNE* (0.59%) / ECP** (0.45%) / HTP*** (0.43%)
b2140 Install a 3rd Emilie 230/138 kV transformer		PECO (97.04%) / ECP** (1.62%) / HTP*** (1.34%)
b2145 Replace two sections of conductor inside Richmond substation		PECO (100%)

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SCHEDULE 12 – APPENDIX A

(8) PECO Energy Company

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

PECO Energy Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2550 Replace terminal equipment inside Nottingham substation on the 220-05 (Nottingham – Daleville- Bradford) 230 kV line		PECO (100%)
b2551 Replace terminal equipment inside Llanerch substation on the 130-45 (Eddystone to Llanerch) 138 kV line		PECO (100%)
b2572 Replace the Peach Bottom 500 kV '#225' breaker with a 63 kA breaker		PECO (100%)
b2694 Increase ratings of Peach Bottom 500/230 kV transformer to 1479 MVA normal/1839 MVA emergency		AEC (3.97%)/ AEP (5.77%)/ APS (4.27%)/ ATSI (6.15%)/ BGE (1.63%)/ ComEd (0.72%)/ Dayton (1.06%)/ DEOK (1.97%)/ DL (2.25%)/ Dominion (0.35%)/ DPL (14.29%)/ ECP** (0.69%)/ EKPC (0.39%)/ HTP*** (0.96%)/ JCPL (6.84%)/ MetEd (3.28%)/ NEPTUNE* (2.14%)/ PECO (16.42%)/ PENELEC (3.94%)/ PPL (8.32%)/ PSEG (14.13%)/ RE (0.44%)
b2752.2 Tie in new Furnace Run substation to Peach Bottom – TMI 500 kV		AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)
b2752.3 Upgrade terminal equipment and required relay communication at Peach Bottom 500 kV: on the Beach Bottom – TMI 500 kV circuit		AEP (6.46%) / APS (8.74%) / BGE (19.74%) / ComEd (2.16%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.95%) / EKPC (0.45%) / PEPCO (20.88%)

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Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 8 PECO Energy Company

PECO Energy Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2766.2 Upgrade substation equipment at Peach Bottom 500 kV to increase facility rating to 2826 MVA normal and 3525 MVA emergency		<p>Load-Ratio Share Allocation: AEC (1.71%) / AEP (14.04%) / APS (5.61%) / ATSI (8.10%) / BGE (4.36%) / ComEd (13.14%) / Dayton (2.15%) / DEOK (3.23%) / DL (1.73%) / DPL (2.65%) / Dominion (13.03%) / EKPC (1.77%) / JCPL (3.84%) / ME (1.93%) / NEPTUNE* (0.45%) / OVEC (0.07%) / PECO (5.29%) / PENELEC (1.89%) / PEPSCO (3.82%) / PPL (4.72%) / PSEG (6.21%) / RE (0.26%)</p> <p>DFAX Allocation: AEC (3.52%) / APS (9.95%) / ATSI (10.68%) / BGE (6.92%) / DPL (16.32%) / JCPL (11.32%) / NEPTUNE* (1.22%) / PENELEC (2.30%) / PEPSCO (12.59%) / PSEG (24.22%) / RE (0.96%)</p>

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PECO Energy Company (cont.)

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

PECO Energy Company (cont.)

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

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PECO Energy Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b3335 Reconducto a 0.76 mile portion of the Croydon - Burlington 230 kV line		PECO (100%)

Attachment 5H – Cost Allocation of 2022/2023 CW Edison Schedule 12 Charges

Attachment 5H PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for Commonwealth Edison

Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2022 - May 2023 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
Replace station equipment at Nelson and upgrade conductor ratings 345 kV lines	b2692.1-b2692.2	\$ 1,264,044.00	0.18%	0.52%	1.17%	0.14%	\$2,275	\$6,573	\$14,789	\$1,770	\$25,407
Totals		\$ -					\$0	\$0	\$0	\$0	\$0
							\$2,275	\$6,573	\$14,789	\$1,770	\$25,407

Notes on calculations >>>

$$\begin{aligned} &= (a) * (b) & &= (a) * (c) & &= (a) * (d) & &= (a) * (e) & &= (f) + (g) + \\ & & & & & & & & & & (h) + (i) \end{aligned}$$

(k)	(l)	(m)	(n)	(o)	(p)
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 22/23	2022TX Peak Load per PJM website	2022 Impact (7 months)	2023 Impact (5 months)	2022-2023 Impact (12 months)
PSE&G	\$ 1,232.44	10,064.1	\$ 8,627	\$ 6,162	\$ 14,789
JCP&L	\$ 547.75	6,169.1	\$ 3,834	\$ 2,739	\$ 6,573
ACE	\$ 189.61	2,631.0	\$ 1,327	\$ 948	\$ 2,275
RE	\$ 147.47	427.4	\$ 1,032	\$ 737	\$ 1,770
Total Impact on NJ Zones	\$ 2,117.27		\$ 14,821	\$ 10,586	\$ 25,407

Notes on calculations >>>

$$\begin{aligned} &= (k) * (l) & &= (k) * 7 & &= (k) * 5 & &= (n) * (o) \end{aligned}$$

Notes:

1) 2022 allocation share percentages are from PJM OATT

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 15 Commonwealth Edison Company

**Commonwealth Edison Company and Commonwealth Edison Company of Indiana, Inc.
(cont.)**

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2468 Replace the Skokie 138 kV breaker '88 L8803' with 63kA breaker		ComEd (100%)
b2469 Replace the Des Plaines 138 kV breaker '46 11702' with 63 kA breaker		ComEd (100%)
b2561 Install a new 345 kV circuit breaker 5-7 at Elwood substation		ComEd (100%)
b2562 Remove 2.0 miles of wood poles on 138 kV line 17105, erect new steel structures, and install new 1113 kcmil ACSR conductor from Roscoe Bert to Harlem		ComEd (100%)
b2613 Replace relays at Mazon substation		ComEd (100%)
b2692.1 Replace station equipment at Nelson, ESS H-471 and Quad Cities		AEC (0.18%) / AEP (18.68%) / APS (5.86%) / ATSI (7.85%) / BGE (3.32%) / ComEd (38.21%) / Dayton (2.76%) / DEOK (4.13%) / DL (2.23%) / Dominion (5.15%) / DPL (1.97%) / EKPC (1.36%) / HTP (0.05%) / JCPL (0.52%) / MetED (0.04%) / Neptune (0.04%) / PECO (1.08%) / PENELEC (1.25%) / PEPCO (3.56%) / PPL (0.45%) / PSEG (1.17%) / RECO (0.14%)

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 15 Commonwealth Edison Company

**Commonwealth Edison Company and Commonwealth Edison Company of Indiana, Inc.
(cont.)**

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2692.2 Upgrade conductor ratings of Cordova – Nelson, Quad Cities – ESS H-471 and ESS H-471 – Nelson 345 kV lines and mitigating sag limitations		AEC (0.18%) / AEP (18.68%) / APS (5.86%) / ATSI (7.85%) / BGE (3.32%) / ComEd (38.21%) / Dayton (2.76%) / DEOK (4.13%) / DL (2.23%) / Dominion (5.15%) / DPL (1.97%) / EKPC (1.36%) / HTP (0.05%) / JCPL (0.52%) / MetED (0.04%) / Neptune (0.04%) / PECO (1.08%) / PENELEC (1.25%) / PEPCO (3.56%) / PPL (0.45%) / PSEG (1.17%) / RECO (0.14%)
b2693 Replace L7815 B phase line trap at Wayne substation		ComEd (100%)
b2699.1 Replace 5 Powerton 345 kV CB's with 2 cycle IPO breakers, install one new 345 kV CB; swap line 0302 and line 0303 bus positions; reconfigure Powerton 345 kV bus as single ring configuration		ComEd (100%)
b2699.2 Remove SPS logic at Powerton that trips generators or sectionalizes bus under normal conditions; minimal SPS logic will remain		ComEd (100%)
b2721 Goodings Grove – Balance Station Load (swap bus positions for 345 kV lines 1312 & 11620 and 345 kV lines 11604 & 11622) and replace 138 kV bus tie 2-3		ComEd (100%)

Attachment 5I – Cost Allocation of 2022/2023 Duquesne Schedule 12 Charges

Attachment 5I PJM Schedule 12 - Transmission Enhancement Charges for June 2022 - May 2023

Calculation of costs and monthly PJM charges for Duquesne

Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	June 2022 - May 2023 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 7 miles of Woodville-Peters 138 kV circuit	b2689.1-2	\$ 1,151,053.00	0.99%	0.00%	3.45%	0.00%	\$11,395	\$0	\$39,711	\$0	\$51,107
Totals		\$ -					\$0	\$0	\$0	\$0	\$0
							\$11,395	\$0	\$39,711	\$0	\$51,107

Notes on calculations >>>

$$\begin{aligned} &= (a) * (b) &= (a) * (c) &= (a) * (d) &= (a) * (e) &= (f) + (g) + \\ & & & & & (h) + (i) \end{aligned}$$

(k)	(l)	(m)	(n)	(o)	(p)
Zonal Cost Allocation for New Jersey Zones	Average Monthly Impact on Zone Customers in 22/23	2022TX Peak Load per PJM website	2022 Impact (7 months)	2023 Impact (5 months)	2022-2023 Impact (12 months)
PSE&G	\$ 3,309.28	10,064.1 \$ 0.33	\$ 23,165	\$ 16,546	\$ 39,711
JCP&L	\$ -	6,169.1 \$ -	\$ -	\$ -	\$ -
ACE	\$ 949.62	2,631.0 \$ 0.36	\$ 6,647	\$ 4,748	\$ 11,395
RE	\$ -	427.4 \$ -	\$ -	\$ -	\$ -
Total Impact on NJ Zones	\$ 4,258.90		\$ 29,812	\$ 21,294	\$ 51,107

Notes on calculations >>>

$$\begin{aligned} &= (k) * (l) &= (k) * 7 &= (k) * 5 &= (n) * (o) \end{aligned}$$

Notes:

- 1) 2022 allocation share percentages are from PJM OATT

Intra-PJM Tariffs --> OPEN ACCESS TRANSMISSION TARIFF --> OATT VI. ADMINISTRATION AND STUDY OF NEW SERVICE REQUESTS; R --> OATT SCHEDULE 12 - APPENDIX A - Required Transmission Enhanc --> OATT SCHEDULE 12.APPENDIX A - 18 Duquesne Light Company

Duquesne Light Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2209	Revise the reclosing for the Cheswick 138 kV breaker Z-51 WILMERD'		DL (100%)
b2280	Replace the USAP 138 kV breaker 'XFMR'		DL (100%)
b2303	Revise the reclosing to the Dravosburg 138 kV breaker 'Z73 West Mifflin' from 5 sec to 15 sec		DL (100%)
b2563	Operate with the Crescent 345/138 kV #3 autotransformer in-service by replacing 8 overdutied 138 kV breakers at Crescent, 3 138 kV breakers at Beaver Valley, install #1 section 345 kV breaker for 331 circuit at Crescent		DL (100%)
b2632	Replace the Oakland 138 kV 'Z-101 Arsenal' breaker		DL (100%)
b2639	Replace the Crescent 138 kV 'NO3 – 4 138' breaker with a 63 kA breaker		DL (100%)
b2640	Replace the Crescent 138 kV 'Z-143 SWCKLY' breaker with a 63 kA breaker		DL (100%)
b2641	Replace the Crescent 138 kV 'Z-24 MONTOUR' breaker with a 63 kA breaker		DL (100%)
b2642	Replace the Crescent 138 kV 'Z-28 BEAVER' breaker with a 63 kA breaker		DL (100%)
b2689.1	Reconductor approximately 7 miles of the Woodville – Peters (Z-117) 138 kV circuit		AEC (0.99%)/ APS (66.14%)/ BGE (4.60%)/ Dominion (8.81%)/ DPL (5.83%)/ ECP** (0.34%)/ HTP*** (0.04%)/ NEPTUNE* (0.12%)/ PECO (3.39%)/ PEPCO (6.29%)/ PSEG (3.45%)

*Neptune Regional Transmission System, LLC

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

***Hudson Transmission Partners, LLC

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Duquesne Light Company (cont.)

	Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2689.2	Reconfigure West Mifflin-USS Clairton (Z-15) 138 kV circuit to establish Dravosburg-USS Clairton (Z-14) 138 kV circuit and West Mifflin-Wilson (Z-15) 138 kV circuit		AEC (0.99%)/ APS (66.14%)/ BGE (4.60%)/ Dominion (8.81%)/ DPL (5.83%)/ ECP** (0.34%)/ HTP*** (0.04%)/ NEPTUNE* (0.12%)/ PECO (3.39%)/ PEPCO (6.29%)/ PSEG (3.45%)
b3011.7	Replace the line terminal equipment and line breaker #85 at Dravosburg 138 kV substation in the Elwyn Z-70 line position/bay, with the breaker duty as 63kA		DL (100%)
b3011.8	Upgrade 138 kV breaker "Z-78 Logans" at Dravosburg		DL (100%)
b3012.2	Construct two new ties from a new FirstEnergy substation to a new Duquesne substation by using two separate structures – Duquesne portion		ATSI (38.21%) / DL (61.79%)
b3012.4	Establish the new tie line in place of the existing Elrama – Mitchell 138 kV line		DL (100%)
b3015.1	Construct new Elrama 138 kV substation and connect 7 138 kV lines to new substation		DL (100%)
b3015.2	Reconductor Elrama to Wilson 138 kV line. 4.8 miles		APS (100%)
b3015.3	Reconductor Dravosburg to West Mifflin 138 kV line. 3 miles		DL (100%)
b3015.4	Run new conductor on existing tower to establish the new Dravosburg – Elrama (Z-75) circuit. 10 miles		DL (100%)

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

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