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JSW
1/31/19



VIA ELECTRONIC MAIL & OVERNIGHT MAIL
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JAN 25 2019

January 25, 2019

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JAN 25 2019

BOARD OF PUBLIC UTILITIES
TRENTON, NJ

BOARD OF PUBLIC UTILITIES
TRENTON, NJ

In the Matter of the Provision of
Basic Generation Service for Year Two of the Post-Transition Period

-and-

In the Matter of the Provision of
Basic Generation Service for the Period Beginning June 1, 2016

-and-

In the Matter of the Provision of
Basic Generation Service for the Period Beginning June 1, 2017

-and-

In the Matter of the Provision of
Basic Generation Service for the Period Beginning June 1, 2018

Docket Nos. EO03050394, ER15040482, ER16040337, ER17040335

+++++

Tariff Filing Reflecting Changes to Schedule 12 Charges in
PJM Open Access Transmission Tariff, BPU Docket No. ER18121290

Aida Camacho-Welch
Secretary of the Board
New Jersey Board of Public Utilities
44 South Clinton Avenue, 3rd Floor, Suite 314
Trenton, New Jersey 08625-0350

Dear Secretary Camacho-Welch:

Enclosed for filing on behalf of Jersey Central Power & Light Company (“JCP&L”), Atlantic City Electric Company (“ACE”), Public Service Electric and Gas Company (“PSE&G”) and Rockland Electric Company (“RECO”) (collectively, the “EDCs”), please find an original and ten copies of revised tariff sheets and supporting exhibits to update the EDC’s initial filing dated December 5, 2016 and received on December 6, 2018 in the above-captioned docket (the “December 6, 2018 Filing”).

Case Mgmt
list copied

10/10/10

10/10/10

Background.

In the December 6, 2018 Filing, the EDCs filed a joint petition with the New Jersey Board of Public Utilities ("Board" or "BPU") requesting recovery of Federal Energy Regulatory Commission ("FERC" or the "Commission") approved changes in firm transmission service related charges. By Order dated January 17, 2019, the Board approved the transmission charges resulting from the FERC-approved changes to the Transmission Enhancement Charges ("TECs") effective as of February 1, 2019.

On January 18, 2019, PSE&G made a revised informational filing (the "Revised Informational Filing") with FERC revising its 2019 Formula Rate Annual Update informational filing dated October 15, 2018. PSE&G made the Revised Informational Filing to implement revisions to PSE&G's Formula Rate Template approved by the Commission on December 28, 2018 in Docket No. ER19-204-000 (Attachment 14 below).

Instant Filing.

The EDCs are submitting this filing together with the attached updated tariff sheets and supporting exhibits listed below in order to incorporate the impacts of PSE&G's Revised Informational Filing. The revisions to PSE&G's NITS rate, which are effective January 1, 2019, address various income tax-related items relating to the effects of the Tax Cuts and Jobs Act of 2017 and other Commission formula rate determinations.

Submitted herewith are the following attachments:

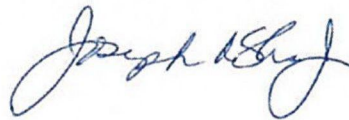
- Attachment 1a (Derivation of PSE&G NITS Charge)
- Attachment 2a (Pro-forma PSE&G Tariff Sheets)
- Attachment 2b (PSE&G Translation of NITS Charge into Customer Rates)
- Attachment 3a (Pro-forma JCPL Tariff Sheets)
- Attachment 3c (JCPL – Translation of PSE&G TECs into Customer Rates)
- Attachment 4a (ACE Pro-forma Tariff Sheets)
- Attachment 4b (ACE – Translation of PSE&G TECs into Customer Rates)
- Attachment 5a (RECO Pro-forma Tariff Sheets)
- Attachment 5b (RECO – Translation of PSE&G TECs into Customer Rates)
- Attachment 6a (PSE&G Project Charges)
- Attachment 7a (PSE&G Open Access Transmission Tariff)
- Attachment 12 (PSE&G FERC filing formula rates)
- Attachment 14 (FERC Order)

The EDCs reiterate the requests for approval set forth in the December 6, 2018 Filing as if incorporated herein, and request that the Board approve the revisions to each EDC's tariff sheets submitted herewith.

In addition, the EDCs respectfully request that the Board issue a waiver of the 30-day filing requirement that would otherwise apply to this submission because Basic Generation Service suppliers began paying these revised transmission charges effective January 1, 2019.

We thank the Board for all courtesies extended.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Joseph R. Kelly". The signature is written in a cursive style with a large initial "J".

Attachments

C Service List (email only)

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
BGS TRANSMISSION ENHANCEMENT CHARGE

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PUBLIC SERVICE ELECTRIC AND GAS COMPANY
BGS TRANSMISSION ENHANCEMENT CHARGE

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<p>Legal Department Citigroup Energy Inc. 2800 Post Oak Blvd. Suite 500 Houston, TX 77056 713-752-5225</p>	<p>Jackie Roy ConocoPhillips 600 N Dairy Ashford, CH1081 Houston, TX 77079 281-293-6303 jackie.roy@conocophillips.com</p>	<p>John Foreman ConocoPhillips 600 N Dairy Ashford, CH1081 Houston, TX 77079 281-293-6303 john.r.foreman@conocophillips.com</p>
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<p>Danielle Fazio Engelhart CTP (US) 400 Atlantic St., 11th Fl. Stamford, CT 06901 203-349-7520</p>	<p>Mara Kent Engelhart CTP (US) 400 Atlantic St., 11th Fl. Stamford, CT 06901 203-349-7517</p>	<p>Rohit Marwaha Exelon Generation Co. 100 Constellation Way, Suite 500C Baltimore, MD 21102 410-470-3117</p>

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
BGS TRANSMISSION ENHANCEMENT CHARGE

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<p>Sherri Brudner Macquarie Energy LLC 500 Dallas Street, Level 31 Houston, TX 77002 713-275-6114 sherri.brudner@macquarie.com</p>	<p>Patricia Haule Macquarie Energy LLC 500 Dallas Street, Level 31 Houston, TX 77002 713-275-6107 patricia.haule@macquarie.com</p>	<p>Justin Brenner NextEra Energy Power Mktg. 700 Universe Boulevard CTR/JB Juno Beach, FL 33408-2683 561-304-6047 DL-PJM-RFP@fpl.com</p>
<p>Cara Lorenzoni Mercuria Energy Americas Four Stamford Plaza, 7th Fl. Stamford, CT 06902 203-542-1439 clorenzoni@mercuria.com</p>	<p>Marleen Nobile PSEG Services Corporation 80 Park Plaza, T-19 P.O. Box 570 Newark, NJ 07101 973-430-6073 marleen.nobile@pseg.com</p>	<p>Shawn P. Leyden, Esq. PSEG Services Corporation 80 Park Plaza, T-19 P.O. Box 570 Newark, NJ 07101 973-430-7698 shawn.leyden@pseg.com</p>
<p>Alan Babp Talen Energy Marketing LLC GENPL7S 835 Hamilton Street, Suite 150 Allentown, PA 18101 610-774-6129 alan.babp@talenergy.com</p>	<p>Mariel Ynaya Talen Energy Marketing LLC GENPL7S 835 Hamilton Street, Suite 150 Allentown, PA 18101 610-774-6054 mariel.ynaya@talenergy.com</p>	<p>Matthew Davies TransCanada Power Marketing Ltd. 110 Turnpike Road, Suite 300 Westborough, MA 01581 (403) 920-2038 matthew_davies@transcanada.com</p>
<p>Brian McPherson TransCanada Power Marketing Ltd. 110 Turnpike Road, Suite 300 Westborough, MA 01581 587-933-8613 brian_mcpherson@transcanada.com</p>	<p>Steven Gabel Gabel Associates 417 Denison Street Highland Park, NJ 08904 732-296-0770 steven@gabelassociates.com</p>	

Attachment
1a

Revised Derivation of PSE&G Network Integration Transmission Service (NITS)
Charge

Revised Attachment 1a - PSE&G Network Integration Service Calculation

Derived Network Integration Service Rate Applicable to PSE&G customers - Effective January 1, 2019 through December 31, 2019

Line #	Description	Rate	Source
			Page 4 of Attachment 12
(1)	Transmission Service Annual Revenue Requirement	\$ 1,194,757,706.63	-Line 164
(2)	Total Schedule 12 TEC Included in above	\$ (406,007,984.00)	Attachment 6a Column (a)
(3)	PSE&G Customer Share of Schedule 12 TEC	\$ 256,069,586.85	Attachment 6a Column (h)
(4)	Total Transmission Costs Borne by PSE&G customers	\$ 1,044,819,309.48	=(1) +(2) +(3)
			Page 4 of Attachment 12 -
(5)	2019 PSE&G Network Service Peak	9,978.3 MW	-Line 165
(6)	2019 Derived Network Integration Transmission Service Rate	\$ 104,709.15 per MW-year	
	Resulting 2019 BGS Firm Transmission Service Supplier Rate	\$ 286.87 per MW-day	= (6)/365

Attachment 2 – PSE&G Tariffs and Rate Translation

Revised
Attachment 2a
Pro-forma PSE&G Tariff Sheets

Revised
Attachment 2b
PSE&G Translation of NITS Charge into
Customer Rates

Revised
Attachment 2a
Pro-forma PSE&G Tariff Sheets

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

XXX Revised Sheet No. 75

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

Superseding

XXX Revised Sheet No. 75

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

APPLICABLE TO:

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

BGS ENERGY CHARGES:

Applicable to Rate Schedules RS, RHS, RLM, WH, WHS, HS, BPL, BPL-POF and PSAL
Charges per kilowatt-hour:

Rate Schedule	For usage in each of the months of <u>October through May</u>		For usage in each of the months of <u>June through September</u>	
	Charges	Charges Including SUT	Charges	Charges Including SUT
RS – first 600 kWh	\$0.118229	\$0.126062	\$0.118204	\$0.126035
RS – in excess of 600 kWh	0.118229	0.126062	0.127300	0.135734
RHS – first 600 kWh	0.093260	0.099438	0.088655	0.094528
RHS – in excess of 600 kWh	0.093260	0.099438	0.100817	0.107496
RLM On-Peak	0.207481	0.221227	0.220308	0.234903
RLM Off-Peak	0.058669	0.062556	0.053580	0.057130
WH	0.049065	0.052316	0.046813	0.049914
WHS	0.049245	0.052507	0.046520	0.049602
HS	0.101578	0.108308	0.103500	0.110357
BPL	0.046908	0.050016	0.041926	0.044704
BPL-POF	0.046908	0.050016	0.041926	0.044704
PSAL	0.046908	0.050016	0.041926	0.044704

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

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

Date of Issue:

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

Effective:

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
B.P.U.N.J. No. 16 ELECTRIC

XXX Revised Sheet No. 79
Superseding
XXX Revised Sheet No. 79

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

BGS CAPACITY CHARGES:

Applicable to Rate Schedules GLP and LPL-Sec.

Charges per kilowatt of Generation Obligation:

Charge applicable in the months of June through September	\$ 5.1628
Charge including New Jersey Sales and Use Tax (SUT)	\$ 5.5048
Charge applicable in the months of October through May	\$ 5.1628
Charge including New Jersey Sales and Use Tax (SUT)	\$ 5.5048

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	\$104,709.15 per MW per year
EL05-121	\$ 20,069.91 per MW per year
PJM Seams Elimination Cost Assignment Charges	\$ 0.00 per MW per month
PJM Reliability Must Run Charge	\$ 2.82 per MW per month
PJM Transmission Enhancements	
Trans-Allegheny Interstate Line Company	\$ 46.80 per MW per month
Virginia Electric and Power Company	\$ 43.35 per MW per month
Potomac-Appalachian Transmission Highline L.L.C.	(\$18.29) per MW per month
PPL Electric Utilities Corporation	\$ 218.59 per MW per month
American Electric Power Service Corporation	\$ 19.61 per MW per month
Atlantic City Electric Company	\$ 9.32 per MW per month
Delmarva Power and Light Company	\$ 0.16 per MW per month
Potomac Electric Power Company	\$ 3.24 per MW per month
Baltimore Gas and Electric Company	\$ 3.61 per MW per month
Jersey Central Power and Light	\$ 68.84 per MW per month
Mid Atlantic Interstate Transmission	\$ 7.60 per MW per month
PECO Energy Company	\$ 20.34 per MW per month

Above rates converted to a charge per kW of Transmission Obligation, applicable in all months	\$10.8242
Charge including New Jersey Sales and Use Tax (SUT)	\$11.5413

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

Date of Issue:

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

Effective:

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

XXX Revised Sheet No. 83

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

Superseding

XXX Revised Sheet No. 83

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

(Continued)

BGS TRANSMISSION CHARGES

Charges per kilowatt of Transmission Obligation:

Currently effective Annual Transmission Rate for

Network Integration Transmission Service for the

Public Service Transmission Zone as derived from the

FERC Electric Tariff of the PJM Interconnection, LLC \$104,709.15 per MW per year

EL05-121 \$ 20,069.91 per MW per year

PJM Seams Elimination Cost Assignment Charges \$ 0.00 per MW per month

PJM Reliability Must Run Charge \$ 2.82 per MW per month

PJM Transmission Enhancements

Trans-Allegheny Interstate Line Company \$ 46.80 per MW per month

Virginia Electric and Power Company \$ 43.35 per MW per month

Potomac-Appalachian Transmission Highline L.L.C. (\$18.29) per MW per month

PPL Electric Utilities Corporation \$ 218.59 per MW per month

American Electric Power Service Corporation \$ 19.61 per MW per month

Atlantic City Electric Company \$ 9.32 per MW per month

Delmarva Power and Light Company \$ 0.16 per MW per month

Potomac Electric Power Company \$ 3.24 per MW per month

Baltimore Gas and Electric Company \$ 3.61 per MW per month

Jersey Central Power and Light \$ 68.84 per MW per month

Mid Atlantic Interstate Transmission \$ 7.60 per MW per month

PECO Energy Company \$ 20.34 per MW per month

Above rates converted to a charge per kW of Transmission

Obligation, applicable in all months \$10.8242

Charge including New Jersey Sales and Use Tax (SUT) \$11.5413

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

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

Date of Issue:

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

Effective:

Revised
Attachment 2b
PSE&G Translation of NITS Charge into
Customer Rates

Network Integration Service Calculation - BGS-RSCP
Revised NITS Charges for January 2019 - December 2019

		<u>Effective 1/1/19 - 12/31/19</u>		
PSE&G Annual Transmission Service Revenue Requirement	\$	1,194,757,706.63		
Total Schedule 12 TEC Included in above	\$	(406,007,984.00)		
PSE&G Customer Share of Schedule 12 NITS	\$	<u>256,069,586.85</u>		
NITS Charges for Jan 2019 - Dec 2019	\$	1,044,819,309.48		
PSE&G Zonal Transmission Load for Effective Yr. (MW)		9,978.30		
Term (Months)		12		
OATT rate	\$	8,725.76 /MW/month		all values show w/o NJ SUT
converted to \$/MWyr =	\$	104,709.15 /MWyr	Jan 19 - Dec 19 NITS Charge	
	\$	82,474.75 /MWyr	2015 - 2017 Weighted Average of:	\$ 72,688.29 \$ 82,516.44 \$ 92,569.05
	\$	<u>93,399.52 /MWyr</u>	2016- 2018 Weighted Average of:	\$ 82,516.44 \$ 92,569.05 \$ 104,709.15
	\$	88,847.53 /MWyr	Jan 18 - Dec 18 Weighted Average	
Resulting Increase in Transmission Rate	\$	15,861.62 /MWyr		
Resulting Increase in Transmission Rate	\$	1,321.80 /MW/month		

	RS	RHS	RLM	WH	WHS	HS	PSAL	BPL
Trans Obl - MW	3,750.5	21.7	71.8	0.0	0.0	2.8	0.0	0.0
Total Annual Energy - MWh	12,175,045.4	114,167.8	209,061.6	1,060.0	19.0	12,369.0	155,848.0	295,094.0
Change in energy charge in \$/MWh	\$ 4.8861	\$ 3.0148	\$ 5.4475	\$ -	\$ -	\$ 3.5906	\$ -	\$ -
in \$/kWh - rounded to 6 places	\$ 0.004886	\$ 0.003015	\$ 0.005448	\$ -	\$ -	\$ 0.003591	\$ -	\$ -

Line #

1	Total BGS-RSCP Trans Obl	6,539.3 MW		= sum of BGS-RSCP eligible Trans Obl adjusted for migration
2	Total BGS-RSCP energy @ cust	24,078,111 MWh		= sum of BGS-RSCP eligible kWh @ cust adjusted for migration
3	Total BGS-RSCP energy @ trans nodes	25,878,575 MWh	unrounded	= (2) * loss expansion factor to trans node
4	Change in OATT rate * total Trans Obl	\$ 103,723,874	unrounded	= Change in OATT rate * Total BGS-RSCP eligible Trans Obl adjusted for migration
5	Change in Average Supplier Payment Rate	\$ 4,0081 /MWh	unrounded	= (4) / (3)
6	Change in Average Supplier Payment Rate	\$ 4.01 /MWh	rounded to 2 decimal places	= (5) rounded to 2 decimal places
7	Proposed Total Supplier Payment	\$ 103,773,087	unrounded	= (6) * (3)
8	Difference due to rounding	\$ 49,213	unrounded	= (7) - (4)

Attachment 3 – JCP&L Tariffs and Rate Translation

Revised
Attachment 3a
Pro-forma JCP&L Tariff Sheets

Revised
Attachment 3c
JCP&L Translation of PSE&G Schedule 12 (Transmission Enhancement)
Charges into Customer Rates

Revised
Attachment 3a
Pro-forma JCP&L Tariff Sheets

JERSEY CENTRAL POWER & LIGHT COMPANY

BPU No. 12 ELECTRIC - PART III

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

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

2) BGS Transmission Charge per KWH: As provided in the respective tariff for Service Classifications RS, RT, RGT, GS, GST, OL, SVL, MVL, ISL and LED. Effective September 1, 2017, a RMR (BL England) surcharge of **\$0.000131** 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 January 1, 2018, a RMR (Yorktown) surcharge of **\$0.000011** 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 1, 2018**, 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 **\$0.000211** per KWH
Delmarva-TEC surcharge of **\$0.000001** per KWH
ACE-TEC surcharge of **\$0.000097** per KWH
PEPCO-TEC surcharge of **\$0.000014** per KWH
PPL-TEC surcharge of **\$0.000808** per KWH
BG&E-TEC surcharge of **\$0.000016** per KWH
PECO-TEC surcharge of **\$0.000064** per KWH
EL05-121-TEC surcharge of **\$0.005884** per KWH

Effective **January 1, 2019**, 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 **\$0.002074** per KWH
VEPCO-TEC surcharge of **\$0.000186** per KWH
PATH-TEC surcharge of **\$0.000016** per KWH
AEP-East-TEC surcharge of **\$0.000082** per KWH
MAIT-TEC surcharge of **\$0.000069** per KWH

3) BGS Reconciliation Charge per KWH: \$0.000371 (includes Sales and Use Tax as provided in Rider SUT)

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

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

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 1, 2018**, the following TEC surcharges (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage:

	<u>TRAILCO-TEC</u>	<u>Delmarva-TEC</u>	<u>ACE-TEC</u>
GS and GST	\$0.000211	\$0.000001	\$0.000097
GP	\$0.000141	\$0.000000	\$0.000065
GT	\$0.000128	\$0.000000	\$0.000059
GT – High Tension Service	\$0.000032	\$0.000000	\$0.000015
	<u>PEPCO-TEC</u>	<u>PPL-TEC</u>	<u>BG&E-TEC</u>
GS and GST	\$0.000014	\$0.000808	\$0.000016
GP	\$0.000010	\$0.000540	\$0.000011
GT	\$0.000009	\$0.000492	\$0.000010
GT – High Tension Service	\$0.000002	\$0.000122	\$0.000002
	<u>PECO-TEC</u>	<u>EL05-121-TEC</u>	
GS and GST	\$0.000064	\$0.005884	
GP	\$0.000043	\$0.003926	
GT	\$0.000039	\$0.003577	
GT – High Tension Service	\$0.000010	\$0.000883	

Effective **January 1, 2019**, the following TEC surcharges (include Sales and Use Tax as provided in Rider SUT) will be added to the BGS Transmission Charge applicable to all KWH usage:

	<u>PSEG-TEC</u>	<u>VEPCO-TEC</u>	<u>PATH-TEC</u>
GS and GST	\$0.002074	\$0.000186	\$0.000016
GP	\$0.001367	\$0.000123	\$0.000011
GT	\$0.001261	\$0.000113	\$0.000010
GT – High Tension Service	\$0.000305	\$0.000028	\$0.000002
	<u>AEP-East-TEC</u>	<u>MAIT-TEC</u>	
GS and GST	\$0.000082	\$0.000069	
GP	\$0.000054	\$0.000046	
GT	\$0.000050	\$0.000043	
GT – High Tension Service	\$0.000012	\$0.000011	

4) BGS Reconciliation Charge per KWH: \$0.000973 (includes Sales and Use Tax as provided in Rider SUT)

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

Issued:

Effective:

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

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

Revised
Attachment 3c
JCP&L Translation of PSE&G Schedule 12 (Transmission Enhancement)
Charges into Customer Rates

Attachment 3c - (Revised)

Jersey Central Power & Light Company

Proposed PSEG Project Transmission Enhancement Charge (PSEG-TEC Surcharge) effective January 1, 2019

To reflect FERC-approved PSEG Project Transmission Enhancement Charge (Schedule 12 PJM OATT) for January - December 2019

2019 Average Monthly PSEG-TEC Costs Allocated to JCP&L Zone	\$	3,121,483.59	(1)
2019 JCP&L Zone Transmission Peak Load (MW)		5,976.5	
PSEG-Transmission Enhancement Rate (\$/MW-month)	\$	522.29	

BGS by Voltage Level	Transmission Obligation (MW)	Allocated Cost Recovery (\$) (2)	BGS Eligible Sales (kWh) (3)	Effective January 1, 2019:	
				PSEG-TEC Surcharge (\$/kWh)	PSEG-TEC Surcharge w/ SUT(\$/kWh)
Secondary (excluding lighting)	5150.8	32,282,831	16,598,859,593	\$ 0.001945	\$ 0.002074
Primary	363.8	2,279,842	1,778,349,586	\$ 0.001282	\$ 0.001367
Transmission @ 34.5 kV	306.3	1,920,039	1,623,279,272	\$ 0.001183	\$ 0.001261
Transmission @ 230 kV	16.2	101,399	354,495,253	\$ 0.000286	\$ 0.000305
Total	5837.1	36,584,111	20,354,983,704		

- (1) Cost Allocation of PSEG Project Schedule 12 Charges to JCP&L Zone for 2019
 (2) Based on 12 months PSEG Project costs from January through December 2019
 (3) January 2019 through December 2019

BGS-RSCP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales January through December @ Customer	15,493,967	MWH
2	BGS-RSCP Eligible Sales January through December @ Transmission Node	17,191,398	MWH
3	BGS-RSCP Eligible Transmission Obligation	4,694	MW
4	PSEG-Transmission Enhancement Costs to RSCP Suppliers	\$ 29,419,715	Line 3 x \$522.29 x 12
5	Change to Supplier Payment Rates \$/MWH (rounded to 2 decimals)	\$ 1.71	= Line 4 / Line 2

Attachment 4 – ACE Tariffs and Rate Translation

Revised
Attachment 4a
Pro-forma ACE Tariff Sheets

Revised
Attachment 4b
ACE Translation of PSE&G Schedule 12 (Transmission Enhancement)
Charges into Customer Rates

Revised
Attachment 4a
Pro-forma ACE Tariff Sheets

RIDER (BGS) continued
Basic Generation Service (BGS)

CIEP Standby Fee \$0.000160 per kWh

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

Transmission Enhancement Charge

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

	<u>Rate Class</u>							
	<u>RS</u>	<u>MGS</u> <u>Secondary</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>
VEPCo	0.000203	0.000168	0.000166	0.000116	0.000095	0.000084	-	0.000081
TrAILCo	0.000276	0.000230	0.000228	0.000159	0.000129	0.000116	-	0.000111
PSE&G	0.000417	0.000345	0.000342	0.000239	0.000195	0.000174	-	0.000166
PATH	(0.000094)	(0.000079)	(0.000078)	(0.000054)	(0.000044)	(0.000039)	-	(0.000037)
PPL	0.000112	0.000093	0.000092	0.000064	0.000052	0.000047	-	0.000045
PECO	0.000197	0.000164	0.000162	0.000113	0.000093	0.000082	-	0.000079
Pepco	0.000020	0.000017	0.000017	0.000012	0.000010	0.000009	-	0.000009
MAIT	0.000030	0.000026	0.000025	0.000017	0.000014	0.000013	-	0.000012
JCP&L	0.000003	0.000002	0.000002	0.000002	0.000001	0.000001	-	0.000001
EL05-121	(0.000814)	(0.000677)	(0.000671)	(0.000468)	(0.000381)	(0.000340)	-	(0.000326)
Delmarva	0.000001	0.000001	0.000001	-	-	-	-	-
BG&E	0.000039	0.000033	0.000032	0.000022	0.000018	0.000016	-	0.000016
AEP - East	0.000070	0.000059	0.000058	0.000041	0.000033	0.000030	-	0.000028
Total	0.000460	0.000382	0.000376	0.000263	0.000215	0.000193	-	0.000185

Date of Issue:

Effective Date:

Issued by:

Revised
Attachment 4b
ACE Translation of PSE&G Schedule 12 (Transmission Enhancement)
Charges into Customer Rates

Atlantic City Electric Company

Proposed PSE&G Projects Transmission Enhancement Charge (PSE&G-TEC Surcharge) effective January 1, 2019
To reflect FERC-approved ACE Project Transmission Enhancement Charge (Schedule 12 PJM OATT) effective January 1, 2019

Transmission Enhancement Costs Allocated to ACE Zone (2019)	\$	237,393
	\$	237,393
2019 ACE Zone Transmission Peak Load (MW)		2,591
Transmission Enhancement Rate (\$/MW)	\$	91.61

Rate Class	Col. 1 Transmission Obligation (MW)	Col. 2 Allocated Cost Recovery	Col. 3 BGS Eligible Sales June 2018 - May 2019 (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	1,439	\$ 1,582,419	4,059,095,046	\$ 0.000390	\$ 0.000391	\$ 0.000417
MGS Secondary	357	\$ 392,004	1,208,290,228	\$ 0.000324	\$ 0.000324	\$ 0.000345
MGS Primary	9	\$ 9,662	30,079,842	\$ 0.000321	\$ 0.000321	\$ 0.000342
AGS Secondary	382	\$ 419,511	1,873,810,489	\$ 0.000224	\$ 0.000224	\$ 0.000239
AGS Primary	96	\$ 105,334	576,381,592	\$ 0.000183	\$ 0.000183	\$ 0.000195
TGS	132	\$ 145,014	888,340,177	\$ 0.000163	\$ 0.000163	\$ 0.000174
SPL/CSL	0	\$ -	69,443,692	\$ -	\$ -	\$ -
DDC	2	\$ 2,042	13,058,561	\$ 0.000156	\$ 0.000156	\$ 0.000166
	2,416	\$ 2,655,986	8,718,499,648			

Attachment 5 – RECO Tariffs and Rate Translation

Revised
Attachment 5a
Pro-forma RECO Tariff Sheets

Revised
Attachment 5b
RECO Translation of PSE&G Schedule 12 (Transmission Enhancement)
Charges into Customer Rates

Revised
Attachment 5a
Pro-forma RECO Tariff Sheets

DRAFT

Revised Leaf No. 83
Superseding 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 @	1.583 ¢ per kWh	1.583 ¢ 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 @	1.830 ¢ per kWh	1.830 ¢ per kWh
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(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Securitization Charges, and Temporary Tax Act Credit.

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Securitization Charges, and the Temporary Tax Act Credit as described in General Information Section Nos. 33, 34, 35, and 36, respectively, shall be assessed on all kWh delivered hereunder.

* Definition of Summer Billing Months - June through September

(Continued)

DRAFT

Revised Leaf No. 90
Superseding Leaf No. 90

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

RATE – MONTHLY (Continued)

(3) Transmission Charges (Continued)

(b) Transmission Surcharge – This charge is applicable to all customers taking Basic Generation Service from the Company and includes surcharges related to Reliability Must Run, EL05-121 Settlement and Transmission Enhancement Charges.

	<u>Summer Months*</u>	<u>Other Months</u>
<u>Secondary Voltage Service Only</u>		
All kWh@	1.111 ¢ per kWh	1.111 ¢ per kWh
<u>Primary Voltage Service Only</u>		
All kWh@	1.109 ¢ per kWh	1.109 ¢ per kWh

(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Securitization Surcharges, and Temporary Tax Act Credit

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Securitization Charges, and Temporary Tax Act Credit as described in General Information Section Nos. 33, 34, 35, and 36, respectively, shall be assessed on all kWh delivered hereunder.

* Definition of Summer Billing Months - June through September

(Continued)

**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@		
	1.583 ¢ per kWh	1.583 ¢ per kWh
<u>Off-Peak</u>		
All other kWh@		
	1.583 ¢ per kWh	1.583 ¢ 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@	1.137 ¢ per kWh	1.137 ¢ per kWh
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(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Securitization Charges, and Temporary Tax Act Credit

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Securitization Charges, and Temporary Tax Act Credit as described in General Information Section Nos. 33, 34, 35, and 36, respectively, shall be assessed on all kWh delivered hereunder.

* Definition of Summer Billing Months - June through September

(Continued)

DRAFT

Revised Leaf No. 109
Superseding Leaf No. 109

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

RATE - MONTHLY (Continued)

(3) Transmission Charge

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

	<u>Summer Months*</u>	<u>Other Months</u>
All kWh @	1.583 ¢ per kWh	1.583 ¢ 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 @	1.154 ¢ per kWh	1.154 ¢ per kWh
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(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Securitization Charges, and Temporary Tax Act Credit

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Securitization Charges, and Temporary Tax Act Credit as described in General Information Section Nos. 33, 34, 35, and 36, respectively, shall be assessed on all kWh delivered hereunder.

* Definition of Summer Billing Months - June through September

(Continued)

**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 @	\$2.55 per kW	\$2.55 per kW
Period II	All kW @	0.67 per kW	0.67 per kW
Period III	All kW @	2.55 per kW	2.55 per kW
Period IV	All kW @	0.67 per kW	0.67 per kW

Usage Charge

Period I	All kWh @	0.421 ¢ per kWh	0.421 ¢ per kWh
Period II	All kWh @	0.421 ¢ per kWh	0.421 ¢ per kWh
Period III	All kWh @	0.421 ¢ per kWh	0.421 ¢ per kWh
Period IV	All kWh @	0.421 ¢ per kWh	0.421 ¢ 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 @	0.656 ¢ per kWh	0.656 ¢ per kWh

(4) Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Securitization Charges, and Temporary Tax Act Credit

The provisions of the Company's Societal Benefits Charge, Regional Greenhouse Gas Initiative Surcharge, Securitization Charges, and Temporary Tax Act Credit as described in General Information Section Nos. 33, 34, 35, and 36 respectively, shall be assessed on all kWh delivered hereunder.

(Continued)

**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 2.883 ¢ per kWh during the billing months of October through May and 4.662 ¢ per kWh during the summer billing months, a Transmission Charge of 0.421 ¢ per kWh and a Transmission Surcharge of 0.656 ¢ 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)

Revised
Attachment 5b
RECO Translation of PSE&G Schedule 12 (Transmission Enhancement)
Charges into Customer Rates

Rockland Electric Company

Calculation of Transmission Surcharges reflecting changes in Transmission Enhancement Charges (PSE&G Project) effective January 1, 2019.
To reflect FERC-approved PSE&G Project Schedule 12 Charges (Schedule 12 PJM OATT) for the period January 2019 to December 2019.

2019 Average Monthly PSE&G-TEC Costs Allocated to RECO	\$	815,746	(1)
2018 RECO Zone Transmission Peak Load (MW)		445.8	(2)
Transmission Enhancement Rate (\$/MW-month)	\$	1,829.90	
SUT		6.625%	

Rate Class	Col. 1 BGS-Eligible Transmission Obligation (MW)	Col. 2 Transmission Obligation (Pct)	Col.3=Col.2 x \$815,746 x 12 Allocated Cost Recovery (1)	Col. 4 BGS Eligible Sales Jan 2019 - Dec 2019 (kWh)	Col. 5 = Col. 3/Col. 4 Transmission Enhancement Charge (\$/kWh)	Col. 6 = Col. 5 x 1.07 Transmission Enhancement Charge w/ SUT (\$/kWh)
SC1	268.6	60.25%	\$ 5,897,422	675,067,000	\$ 0.00874	\$ 0.00932
SC2 Secondary	124.9	28.02%	\$ 2,743,272	516,156,000	\$ 0.00531	\$ 0.00566
SC2 Primary	15.7	3.52%	\$ 344,394	66,836,000	\$ 0.00515	\$ 0.00549
SC3	0.1	0.02%	\$ 1,548	302,000	\$ 0.00513	\$ 0.00547
SC4	0.0	0.00%	\$ -	6,334,000	\$ -	\$ -
SC5	3.6	0.81%	\$ 79,423	14,493,000	\$ 0.00548	\$ 0.00584
SC6	0.0	0.00%	\$ -	5,552,000	\$ -	\$ -
SC7	<u>32.9</u>	<u>7.38%</u>	<u>\$ 722,889</u>	<u>235,896,000</u>	<u>\$ 0.00306</u>	<u>\$ 0.00326</u>
Total	445.8 (2)	100.00%	\$ 9,788,948	1,520,636,000		

(1) Attachment 6a - Cost Allocation of PSE&G Project Schedule 12 Charges to RECO Zone for the period January 2019 to December 2019.

(2) Includes RECO's Central and Western Divisions

BGS-FP Supplier Payment Adjustment

Line No.

1	BGS-RSCP Eligible Sales Jan - Dec @ cust (RECO Eastern Division)	1,235,896	MWH
2	BGS-RSCP Eligible Sales Jan - Dec @ trans node (RECO Eastern Division)	1,150,504	MWH
3	BGS-RSCP Eligible Transmission Obligation	413	MW
4	Transmission Enhancement Costs to RSCP Suppliers	\$ 9,073,819.64	= Line 3 x \$1829.9 * 12
5	Change in Supplier Payment Rate \$/MWH (rounded to 2 decimals)	\$ 7.89	= Line 4/Line 2

Rockland Electric Company
Calculation of Transmission Surcharges reflecting proposed changes effective January 1, 2019
To reflect: RMR Costs

- FERC-approved ACE Project Schedule 12 Charges (Schedule 12 PJM OATT) currently in RECO's rates
- 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) currently in RECO's rates
- FERC-approved Delmarva Project Schedule 12 Charges (Schedule 12 PJM OATT) currently in RECO's rates
- 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) currently in RECO's rates
- FERC-approved PPL Project Schedule 12 Charges (Schedule 12 PJM OATT) currently in RECO's rates
- FERC-approved PSE&G Project Schedule 12 Charges (Schedule 12 PJM OATT)
- FERC-approved TrAILCo Project Schedule 12 Charges (Schedule 12 PJM OATT) currently in RECO's rates
- 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) currently in RECO's rates
- FERC-approved EL05-121 Project Schedule 12 Charges (Schedule 12 PJM OATT) currently in RECO's rates

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

Transmission Project	Note	SC1	SC2 Sec	SC2 Pri	SC3	SC4	SC5	SC6	SC7
Reliability Must Run	(1)	\$0.00001	\$0.00001	\$0.00001	\$0.00001	\$0.00001	\$0.00001	\$0.00001	\$0.00001
ACE - TEC	(2)	0.00003	0.00002	0.00002	0.00002	0.00000	0.00002	0.00000	0.00001
AEP-East - TEC	(3)	0.00009	0.00006	0.00006	0.00006	0.00000	0.00006	0.00000	0.00003
BG&E - TEC	(4)	0.00001	0.00001	0.00001	0.00001	0.00000	0.00001	0.00000	0.00001
Delmarva - TEC	(5)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
PATH - TEC	(6)	0.00001	0.00001	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000
PEPCO - TEC	(7)	0.00001	0.00001	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000
PPL - TEC	(8)	0.00090	0.00054	0.00056	0.00059	0.00000	0.00057	0.00000	0.00033
PSE&G - TEC	(9)	0.00874	0.00531	0.00515	0.00513	0.00000	0.00548	0.00000	0.00308
TrAILCo - TEC	(10)	0.00019	0.00012	0.00012	0.00013	0.00000	0.00012	0.00000	0.00007
VEPCo - TEC	(11)	0.00021	0.00013	0.00012	0.00012	0.00000	0.00013	0.00000	0.00007
MAIT - TEC	(12)	0.00006	0.00004	0.00004	0.00004	0.00000	0.00004	0.00000	0.00002
JCP&L - TEC	(13)	0.00030	0.00019	0.00018	0.00018	0.00000	0.00019	0.00000	0.00011
PECO - TEC	(14)	0.00008	0.00005	0.00005	0.00005	0.00000	0.00005	0.00000	0.00003
EL05-121	(15)	0.00653	0.00393	0.00407	0.00431	0.00000	0.00414	0.00000	0.00242
Total (\$/kWh and excl SUT)		\$0.01717	\$0.01043	\$0.01041	\$0.01067	\$0.00001	\$0.01084	\$0.00001	\$0.00617
Total (¢/kWh and excl SUT)		1.717 ¢	1.043 ¢	1.041 ¢	1.067 ¢	0.001 ¢	1.084 ¢	0.001 ¢	0.617 ¢

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

6.625%

Transmission Project	Note	SC1	SC2 Sec	SC2 Pri	SC3	SC4	SC5	SC6	SC7
Reliability Must Run	(1)	\$0.00001	\$0.00001	\$0.00001	\$0.00001	\$0.00001	\$0.00001	\$0.00001	\$0.00001
ACE - TEC	(2)	0.00003	0.00002	0.00002	0.00002	0.00000	0.00002	0.00000	0.00001
AEP-East - TEC	(3)	0.00010	0.00006	0.00006	0.00006	0.00000	0.00006	0.00000	0.00003
BG&E - TEC	(4)	0.00001	0.00001	0.00001	0.00001	0.00000	0.00001	0.00000	0.00001
Delmarva - TEC	(5)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
PATH - TEC	(6)	0.00001	0.00001	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000
PEPCO - TEC	(7)	0.00001	0.00001	0.00001	0.00001	0.00000	0.00001	0.00000	0.00000
PPL - TEC	(8)	0.00096	0.00058	0.00060	0.00063	0.00000	0.00061	0.00000	0.00035
PSE&G - TEC	(9)	0.00932	0.00566	0.00549	0.00547	0.00000	0.00584	0.00000	0.00326
TrAILCo - TEC	(10)	0.00020	0.00013	0.00013	0.00014	0.00000	0.00013	0.00000	0.00007
VEPCo - TEC	(11)	0.00022	0.00014	0.00013	0.00013	0.00000	0.00014	0.00000	0.00007
MAIT - TEC	(12)	0.00006	0.00004	0.00004	0.00004	0.00000	0.00004	0.00000	0.00002
JCP&L - TEC	(13)	0.00032	0.00020	0.00019	0.00019	0.00000	0.00020	0.00000	0.00012
PECO - TEC	(14)	0.00009	0.00005	0.00005	0.00005	0.00000	0.00005	0.00000	0.00003
EL05-121	(15)	0.00696	0.00419	0.00434	0.00460	0.00000	0.00441	0.00000	0.00258
Total (\$/kWh and incl SUT)		\$0.01830	\$0.01111	\$0.01109	\$0.01137	\$0.00001	\$0.01154	\$0.00001	\$0.00656
Total (¢/kWh and incl SUT)		1.830 ¢	1.111 ¢	1.109 ¢	1.137 ¢	0.001 ¢	1.154 ¢	0.001 ¢	0.656 ¢

Notes:

- (1) RMR rates based on allocations by transmission zone.
- (2) ACE-TEC rates pursuant to the Board's Order dated November 19, 2018 in Docket No. ER18091061.
- (3) AEP-East-TEC rates pursuant to the Board's Order dated January 17, 2019 in Docket No. ER18121290.
- (4) BG&E-TEC rates pursuant to the Board's Order dated November 19, 2018 in Docket No. ER18091061.
- (5) Delmarva-TEC rates pursuant to the Board's Order dated November 19, 2018 in Docket No. ER18091061.
- (6) PATH-TEC rates pursuant to the Board's Order dated January 17, 2019 in Docket No. ER18121290.
- (7) PEPCO-TEC rates pursuant to the Board's Order dated November 19, 2018 in Docket No. ER18091061.
- (8) PPL-TEC rates pursuant to the Board's Order dated November 19, 2018 in Docket No. ER18091061.
- (9) PSE&G-TEC rates calculated in Attachment 5 of the joint filing.
- (10) TrAILCo-TEC rates pursuant to the Board's Order dated November 19, 2018 in Docket No. ER18091061.
- (11) VEPCo-TEC rates pursuant to the Board's Order dated January 17, 2019 in Docket No. ER18121290.
- (12) MAIT-TEC rates pursuant to the Board's Order dated January 17, 2019 in Docket No. ER18121290.
- (13) JCP&L-TEC rates pursuant to the Board's Order dated January 17, 2019 in Docket No. ER18121290.
- (14) PECO-TEC rates pursuant to the Board's Order dated November 19, 2018 in Docket No. ER18091061.
- (15) EL05-121 rates pursuant to the Board's Order dated November 19, 2018 in Docket No. ER18091061.

Attachment 6a – PJM Schedule 12 (Transmission Enhancement)
Charges

Revised
Attachment 6a
PSE&G Project Charges

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
	Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	Jan - Dec 2019 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project			
			ACE Zone Share	JCP&L Zone Share	PSE&G Zone Share ^{1,2}	RE Zone Share	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
			per PJM Open Access Transmission Tariff								
Replace all derated Branchburg 500/230 kV transformers	b0130	\$ 1,660,782.00	1.36%	47.76%	50.88%	0.00%	\$22,587	\$793,189	\$845,006	\$0	\$1,660,782
Reconductor Kittatinny - Newtown 230 kV with 1590 ACSS	b0134	\$ 676,301.00	0.00%	51.11%	45.96%	2.93%	\$0	\$345,657	\$310,828	\$19,816	\$676,301
Build new Essex - Aldene 230 kV cable connected through phase angle regulator at Essex	b0145	\$ 7,232,235.00	0.00%	73.45%	21.78%	4.77%	\$0	\$5,312,077	\$1,575,181	\$344,978	\$7,232,235
Install 230-138kV transformer at Metuchen substation	b0161	\$ 2,225,851.00	0.00%	0.00%	99.80%	0.20%	\$0	\$0	\$2,221,399	\$4,452	\$2,225,851
Build a new 230 kV section from Branchburg - Flagtown and move the Flagtown - Somerville 230 kV circuit to the new section	b0169	\$ 1,373,629.00	1.76%	26.50%	60.89%	0.00%	\$24,176	\$364,012	\$836,403	\$0	\$1,224,590
Reconductor the Flagtown-Somerville-Bridgewater 230 kV circuit with 1590 ACSS	b0170	\$ 600,707.00	0.00%	42.95%	38.36%	0.79%	\$0	\$258,004	\$230,431	\$4,746	\$493,180
Replace wave trap at Branchburg 500kV substation	b0172.2	\$ 1,180.00	1.61%	3.71%	6.19%	0.26%	\$19	\$44	\$73	\$3	\$139
Replace wave trap at Branchburg 500kV substation	b0172.2_dfax	\$ 1,180.00	3.72%	26.83%	52.82%	2.16%	\$44	\$317	\$623	\$25	\$1,009
Replace both 230/138 kV transformers at Roseland	b0274	\$ -	0.00%	0.00%	100.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Branchburg 400 MVAR Capacitor	b0290	\$ 3,381,011.00	1.61%	3.71%	6.19%	0.26%	\$54,434	\$125,436	\$209,285	\$8,791	\$397,945
Branchburg 400 MVAR Capacitor	b0290_dfax	\$ 3,381,011.00	3.72%	26.83%	52.82%	2.16%	\$125,774	\$907,125	\$1,785,850	\$73,030	\$2,891,779
Inst Conemaugh 250 MVAR Cap	b0376	\$ 131,366.00	1.61%	3.71%	6.19%	0.26%	\$2,115	\$4,874	\$8,132	\$342	\$15,462
Inst Conemaugh 250 MVAR Cap	b0376_dfax	\$ 131,366.00	0.00%	32.79%	0.00%	0.00%	\$0	\$43,075	\$0	\$0	\$43,075
Install 4th 500/230 kV transformer at New Freedom	b0411	\$ 1,838,012.00	47.01%	7.04%	22.31%	0.00%	\$864,049	\$129,396	\$410,060	\$0	\$1,403,506
Saddle Brook - Athenia Upgrade Cable	b0472	\$ 1,342,882.00	0.00%	0.00%	96.40%	3.60%	\$0	\$0	\$1,294,538	\$48,344	\$1,342,882
Build new 500 kV transmission facilities from Pennsylvania - New Jersey border at Bushkill to Roseland (500kV and above elements of the project)	b0489	\$ 37,359,966.50	1.61%	3.71%	6.19%	0.26%	\$601,495	\$1,386,055	\$2,312,582	\$97,136	\$4,397,268
Build new 500 kV transmission facilities from Pennsylvania - New Jersey border at Bushkill to Roseland (500kV and above elements of the project)	b0489_dfax	\$ 37,359,966.50	0.00%	35.98%	58.08%	2.37%	\$0	\$13,442,116	\$21,698,669	\$885,431	\$36,026,216
Build new 500 kV transmission facilities from Pennsylvania - New Jersey border at Bushkill to Roseland (Below 500 kV elements of the project) (In Service)	b0489.4	\$ 4,151,259.00	5.14%	33.04%	41.10%	1.53%	\$213,375	\$1,371,576	\$1,706,167	\$63,514	\$3,354,632
Susquehanna Roseland Breakers (In-Service)	b0489.5	\$ 283,217.00	1.61%	3.71%	6.19%	0.26%	\$4,560	\$10,507	\$17,531	\$736	\$33,335
Susquehanna Roseland Breakers (In-Service)	b0489.5_dfax	\$ 283,217.00	0.00%	35.98%	58.08%	2.18%	\$0	\$101,901	\$164,492	\$6,174	\$272,568
Loop the 5021 circuit into New Freedom 500 kV substation	b0498	\$ 1,165,543.00	1.61%	3.71%	6.19%	0.26%	\$18,765	\$43,242	\$72,147	\$3,030	\$137,184

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	Jan - Dec 2019 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share	JCP&L Zone Share	PSE&G Zone Share ^{1,2}	RE Zone Share	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
Loop the 5021 circuit into New Freedom 500 kV substation	b0498_dfax	\$ 1,165,543.00	8.35%	23.15%	43.44%	1.77%	\$97,323	\$269,823	\$506,312	\$20,630	\$894,088
Branchburg-Somerville-Flagtown Reconductor	b0664-b0665	\$ 1,736,367.00	0.00%	36.35%	43.24%	1.61%	\$0	\$631,169	\$750,805	\$27,956	\$1,409,930
Somerville -Bridgewater Reconductor	b0668	\$ 598,741.00	0.00%	39.41%	38.76%	1.45%	\$0	\$235,964	\$232,072	\$8,682	\$476,718
Reconductor Hudson - South Waterfront 230kV circuit	b0813	\$ 827,417.00	0.00%	9.92%	83.73%	3.12%	\$0	\$82,080	\$692,796	\$25,815	\$800,691
New Essex-Kearny 138 kV circuit and Kearny 138 kV bus tie	b0814	\$ 4,332,709.00	0.00%	23.49%	67.03%	2.50%	\$0	\$1,017,753	\$2,904,215	\$108,318	\$4,030,286
Reconductor South Mahwah 345 kV J-3410 Circuit	b1017	\$ 1,882,618.00	0.00%	29.27%	65.42%	2.55%	\$0	\$551,042	\$1,231,609	\$48,007	\$1,830,658
Reconductor South Mahwah 345 kV K-3411 Circuit	b1018	\$ 1,954,463.00	0.00%	29.44%	65.25%	2.55%	\$0	\$575,394	\$1,275,287	\$49,839	\$1,900,520
West Orange Conversion (North Central Reliability)	b1154	\$ 35,217,757.00	0.00%	0.00%	96.18%	3.82%	\$0	\$0	\$33,872,439	\$1,345,318	\$35,217,757
Branchburg-Middlesex Sw Rack Conversion	b1155	\$ 5,302,202.00	0.00%	4.61%	91.75%	3.64%	\$0	\$244,432	\$4,864,770	\$193,000	\$5,302,202
Conversion	b1156	\$ 34,244,174.00	0.00%	0.00%	96.18%	3.82%	\$0	\$0	\$32,936,047	\$1,308,127	\$34,244,174
Reconf Kearny Loop in P2216	b1589	\$ 2,311,429.00	0.00%	0.00%	77.16%	3.08%	\$0	\$0	\$1,783,499	\$71,192	\$1,854,691
230kV Lawrence Switching Station Upgrade	b1228	\$ 2,031,927.00	0.00%	0.00%	96.18%	3.82%	\$0	\$0	\$1,954,307	\$77,620	\$2,031,927
Ridge Rd 69kV Breaker Station	b1255	\$ 4,459,597.00	0.00%	0.00%	96.18%	3.82%	\$0	\$0	\$4,289,240	\$170,357	\$4,459,597
Northeast Grid Reliability Project	b1304.1-b1304.4	\$ 63,325,129.00	0.28%	1.43%	85.73%	3.40%	\$177,310	\$905,549	\$4,288,633	\$2,153,054	\$57,524,547
Mickleton-Gloucester-Camden	b1398-b1398.7	\$ 43,251,915.00	0.00%	13.03%	31.99%	1.27%	\$0	\$5,635,725	\$13,836,288	\$549,299	\$20,021,311
Aldene-Springfield Rd. Conv	b1399	\$ 7,062,233.00	0.00%	0.00%	96.18%	3.82%	\$0	\$0	\$6,792,456	\$269,777	\$7,062,233
Replace Salem 500 kV breakers	b1410-b1415	\$ 755,214.00	1.61%	3.71%	6.19%	0.26%	\$12,159	\$28,018	\$46,748	\$1,964	\$88,889
Replace Salem 500 kV breakers	b1410-b1416_dfax	\$ 755,214.00	0.00%	0.00%	96.13%	3.87%	\$0	\$0	\$725,987	\$29,227	\$755,214
Upgrade Eagle Point-Gloucester 230 kV Circuit	b1588	\$ 1,194,024.00	0.00%	10.48%	55.03%	2.19%	\$0	\$125,134	\$657,071	\$26,149	\$808,354
Upgrade Camden Richmon 230kV	b1590	\$ 1,106,078.00	0.00%	0.00%	0.00%	0.00%	\$0	\$0	\$0	\$0	\$0
New Cox's Corner-Lumberton 230kV Circuit	b1787	\$ 3,235,736.00	4.97%	44.34%	48.23%	1.93%	\$160,816	\$1,434,725	\$1,560,595	\$62,450	\$3,218,587
Build Mickleton-Gloucester Corridor Ultimate Design	b2139	\$ 1,946,706.00	0.00%	0.00%	61.11%	2.44%	\$0	\$0	\$1,189,632	\$47,500	\$1,237,132
Reconfigure Brunswick New 69kV	b2146	\$ 17,908,278.00	0.00%	0.00%	96.16%	3.84%	\$0	\$0	\$17,220,600	\$687,678	\$17,908,278
Convert Bergen Marion 138 kV to double circuit 345kV and Sub	b2436.10_dfax	\$ 8,924,523.00	0.00%	0.00%	100.00%	0.00%	\$0	\$0	\$8,924,523	\$0	\$8,924,523
Convert Bergen Marion 138 kV to double circuit 345kV and Sub	b2436.10	\$ 8,924,523.00	1.61%	3.71%	6.19%	0.26%	\$143,685	\$331,100	\$552,428	\$23,204	\$1,050,416
Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades	b2436.21_dfax	\$ 3,979,753.50	0.00%	0.00%	100.00%	0.00%	\$0	\$0	\$3,979,754	\$0	\$3,979,754
Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades	b2436.21	\$ 3,979,753.50	1.61%	3.71%	6.19%	0.26%	\$64,074	\$147,649	\$246,347	\$10,347	\$468,417
Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	b2436.22_dfax	\$ 2,309,676.00	0.00%	0.00%	100.00%	0.00%	\$0	\$0	\$2,309,676	\$0	\$2,309,676
Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	b2436.22	\$ 2,309,676.00	1.61%	3.71%	6.19%	0.26%	\$37,186	\$85,689	\$142,969	\$6,005	\$271,849

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
	Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	Jan - Dec 2019 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix ACE Zone Share, JCP&L Zone Share, PSE&G Zone Share ^{1,2} , RE Zone Share 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			
Construct New Bayway-Bayonne 345kV Circuit	b2436.33	\$ -	0.00%	0.00%	100.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Construct New North Ave-Bayonne 345kV Circuit	b2436.34	\$ -	0.00%	0.00%	100.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Construct North Ave-Airport 345kV Circuit and Substation Upgrades	b2436.50	\$ -	0.00%	0.00%	100.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (CWIP)	b2436.70	\$ -	0.00%	0.00%	100.00%	0.00%	\$0	\$0	\$0	\$0	\$0
Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation	b2436.81_dfax	\$ 2,791,546.00	0.00%	0.00%	96.08%	3.92%	\$0	\$0	\$2,682,117	\$109,429	\$2,791,546
Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation	b2436.81	\$ 2,791,546.00	1.61%	3.71%	6.19%	0.26%	\$44,944	\$103,566	\$172,797	\$7,258	\$328,565
Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades	b2436.83_dfax	\$ 2,791,546.00	0.00%	0.00%	96.08%	3.92%	\$0	\$0	\$2,682,117	\$109,429	\$2,791,546
Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades	b2436.83	\$ 2,791,546.00	1.61%	3.71%	6.19%	0.26%	\$44,944	\$103,566	\$172,797	\$7,258	\$328,565
Convert Bayway-Linden "W" to 138kV circuit to 345kV	b2436.84_dfax	\$ 2,789,599.50	0.00%	0.00%	96.08%	3.92%	\$0	\$0	\$2,680,247	\$109,352	\$2,789,600
Convert Bayway-Linden "W" to 138kV circuit to 345kV	b2436.84	\$ 2,789,599.50	1.61%	3.71%	6.19%	0.26%	\$44,913	\$103,494	\$172,676	\$7,253	\$328,336
Convert Bayway-Linden "M" to 138kV circuit to 345kV	b2436.85_dfax	\$ 2,858,981.00	0.00%	0.00%	96.08%	3.92%	\$0	\$0	\$2,746,909	\$112,072	\$2,858,981
Convert Bayway-Linden "M" to 138kV circuit to 345kV	b2436.85	\$ 2,858,981.00	1.61%	3.71%	6.19%	0.26%	\$46,030	\$106,068	\$176,971	\$7,433	\$336,502
Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades	b2436.90_dfax	\$ 1,578,154.00	0.00%	0.00%	100.00%	0.00%	\$0	\$0	\$1,578,154	\$0	\$1,578,154
Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades	b2436.90	\$ 1,578,154.00	1.61%	3.71%	6.19%	0.26%	\$25,408	\$58,550	\$97,688	\$4,103	\$185,749
New Bergen 345/230 kV transformer and any associated substation upgrades	b2437.10	\$ 2,943,541.00	0.00%	0.00%	96.08%	9.92%	\$0	\$0	\$2,828,154	\$291,999	\$3,120,153
New Bergen 345/138 kV transformer #1 and any associated substation upgrades	b2437.11	\$ -	0.00%	0.00%	100.00%	0.00%	\$0	\$0	\$0	\$0	\$0
New Bayway 345/138 kV transformer #1 and any associated substation upgrades	b2437.20	\$ 1,705,778.00	0.00%	0.00%	96.08%	3.92%	\$0	\$0	\$1,638,912	\$66,866	\$1,705,778
New Bayway 345/138 kV transformer #2 and any associated substation upgrades	b2437.21	\$ 1,705,407.00	0.00%	0.00%	96.08%	3.92%	\$0	\$0	\$1,638,555	\$66,852	\$1,705,407
New Linden 345/230 kV transformer and any associated substation upgrades	b2437.30	\$ 117,093.00	0.00%	0.00%	96.08%	3.92%	\$0	\$0	\$112,503	\$4,590	\$117,093

Required Transmission Enhancement per PJM website	PJM Upgrade ID per PJM spreadsheet	Jan - Dec 2019 Annual Revenue Requirement per PJM website	Responsible Customers - Schedule 12 Appendix				Estimated New Jersey EDC Zone Charges by Project				
			ACE Zone Share	JCP&L Zone Share	PSE&G Zone Share ^{1,2}	RE Zone Share	ACE Zone Charges	JCP&L Zone Charges	PSE&G Zone Charges	RE Zone Charges	Total NJ Zones Charges
Install two 175 MVAR Re at Hptcg	b2702_dfax	\$ 1,151,227.00	0.00%	0.00%	100.00%	0.00%	\$0	\$0	\$1,151,227	\$0	\$1,151,227
Install two 175 MVAR Re at Hptcg	b2702	\$ 1,151,227.00	1.61%	3.71%	6.19%	0.26%	\$18,535	\$42,711	\$71,261	\$2,993	\$135,499
Totals		\$ 406,007,984.00					\$2,848,719	\$37,457,803	\$256,069,587	\$9,788,949	\$306,165,058

Notes on calculations >>>

	(k)	(l)	(m)	(n)	(o)	= (a) * (b)	= (a) * (c)	= (a) * (d)	= (a) * (e)	= (f) + (g) +
Zonal Cost Allocation for New Jersey Zones		Average Monthly Impact on Zone Customers in 2019	2019 Trans. Peak Load ²	Rate in \$/MW-mo. ¹	2019 Impact (12 months)					
PSE&G	\$	21,339,132.24	9,978.3	\$ 2,138.55	\$ 256,069,587					
JCP&L	\$	3,121,483.59	5,976.5	\$ 522.29	\$ 37,457,803					
ACE	\$	237,393.23	2,591.3	\$ 91.61	\$ 2,848,719					
RE	\$	815,745.78	414.8	\$ 1,966.60	\$ 9,788,949					
Total Impact on NJ Zones	\$	25,513,754.84	18,960.9		\$ 306,165,058					

Notes on calculations >>>

Notes:

- 1) Uncompressed rate - assumes implementation on January 1, 2019
- 2) Data on PJM website

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

Revised Attachment 7a – PSE&G OATT



SCHEDULE 12 – APPENDIX

(12) Public Service Electric and Gas Company

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

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

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0145	Build new Essex – Aldene 230 kV cable connected through a phase angle regulator at Essex	PSEG (21.78%) / JCPL (73.45%) / RE (4.77%)
b0157	Add 100MVAR capacitor at West Orange 138kV substation	PSEG (100%)
b0158	Close the Sunnymeade "C" and "F" bus tie	PSEG (100%)
b0159	Make the Bayonne reactor permanent installation	PSEG (100%)
b0160	Relocate the X-2250 circuit from Hudson 1-6 bus to Hudson 7-12 bus	PSEG (100%)
b0161	Install 230/138kV transformer at Metuchen substation	PSEG (99.80%) / RE (0.20%)
b0162	Upgrade the Edison – Meadow Rd 138kV "Q" circuit	PSEG (100%)
b0163	Upgrade the Edison – Meadow Rd 138kV "R" circuit	PSEG (100%)
b0169	Build a new 230 kV section from Branchburg – Flagtown and move the Flagtown – Somerville 230 kV circuit to the new section	AEC (1.76%) / JCPL (26.50%) / Neptune* (10.85%) / PSEG (60.89%)
b0170	Reconductor the Flagtown-Somerville-Bridgewater 230 kV circuit with 1590 ACSS	JCLP (42.95%) / Neptune* (17.90%) / PSEG (38.36%) RE (0.79%)

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0172.2	Replace wave trap at Branchburg 500kV substation	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: AEC (3.72%) / JCPL (26.83%) / NEPTUNE (4.75%) / PECO (9.72%) / PSEG (52.82%) / RE (2.16%)</p>
b0184	Replace Hudson 230kV circuit breakers #1-2	PSEG (100%)
b0185	Replace Deans 230kV circuit breakers #9-10	PSEG (100%)
b0186	Replace Essex 230kV circuit breaker #5-6	PSEG (100%)
b1082	Install 230/138 kV transformer at Bergen substation	PENELEC (16.52%) / PSEG (80.29%) / RE (3.19%)

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0201	Branchburg substation: replace wave trap on Branchburg – Readington 230 kV circuit	PSEG (100%)
b0213.1	Replace New Freedom 230 kV breaker BS2-6	PSEG (100%)
b0213.3	Replace New Freedom 230 kV breaker BS2-8	PSEG (100%)
b0274	Replace both 230/138 kV transformers at Roseland	PSEG (100%)
b0275	Upgrade the two 138 kV circuits between Roseland and West Orange	PSEG (100%)
b0278	Install 228 MVAR capacitor at Roseland 230 kV substation	PSEG (100%)
b0290	Install 400 MVAR capacitor in the Branchburg 500 kV vicinity	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: AEC (3.72%) / JCPL (26.83%) / NEPTUNE (4.75%) / PECO (9.72%) / PSEG (52.82%) / RE (2.16%)</p>
b0358	Reconductor the PSEG portion of Buckingham – Pleasant Valley 230 kV, replace wave trap and metering transformer	PSEG (100%)

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

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

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0401.8	Replace W. Orange 138 kV breaker 132-4	PSEG (100%)
b0411	Install 4 th 500/230 kV transformer at New Freedom	AEC (47.01%) / JCPL (7.04%) / Neptune* (0.28%) / PECO (23.36%) / PSEG (22.31%)
b0423	Reconductor Readington (2555) – Branchburg (4962) 230 kV circuit w/1590 ACSS	PSEG (100%)
b0424	Replace Readington wavetrapp on Readington (2555) – Roseland (5017) 230 kV circuit	PSEG (100%)
b0425	Reconductor Linden (4996) – Tosco (5190) 230 kV circuit w/1590 ACSS (Assumes operating at 220 degrees C)	PSEG (100%)
b0426	Reconductor Tosco (5190) – G22_MTX5 (90220) 230 kV circuit w/1590 ACSS (Assumes operation at 220 degrees C)	PSEG (100%)
b0427	Reconductor Athenia (4954) – Saddle Brook (5020) 230 kV circuit river section	PSEG (100%)
b0428	Replace Roseland wavetrapp on Roseland (5019) – West Caldwell “G” (5089) 138 kV circuit	PSEG (100%)
b0429	Reconductor Kittatinny (2553) – Newton (2535) 230 kV circuit w/1590 ACSS	JCPL (42.63%) / Neptune* (3.65%) / PSEG (51.45%) / RE (2.27%)
b0439	Spare Deans 500/230 kV transformer	PSEG (100%)
b0446.1	Upgrade Bayway 138 kV breaker #2-3	PSEG (100%)
b0446.2	Upgrade Bayway 138 kV breaker #3-4	PSEG (100%)
b0446.3	Upgrade Bayway 138 kV breaker #6-7	PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0446.4	Upgrade the breaker associated with TX 132-5 on Linden 138 kV	PSEG (100%)
b0470	Install 138 kV breaker at Roseland and close the Roseland 138 kV buses	PSEG (100%)
b0471	Replace the wave traps at both Lawrence and Pleasant Valley on the Lawrence – Pleasant Vallen 230 kV circuit	PSEG (100%)
b0472	Increase the emergency rating of Saddle Brook – Athenia 230 kV by 25% by adding forced cooling	PSEG (96.40%) / RE (3.60%)
b0473	Move the 150 MVAR mobile capacitor from Aldene 230 kV to Lawrence 230 kV substation	PSEG (100%)
b0489	Build new 500 kV transmission facilities from Pennsylvania – New Jersey border at Bushkill to Roseland	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)†
		DFAX Allocation: JCPL (35.98%) / NEPTUNE (3.57%) / PSEG (58.08%) / RE (2.37%)

* Neptune Regional Transmission System, LLC

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

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

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b489.1	Replace Athenia 230 kV breaker 31H	PSEG (100%)
b489.2	Replace Bergen 230 kV breaker 10H	PSEG (100%)
b489.3	Replace Saddlebrook 230 kV breaker 21P	PSEG (100%)
b0489.4	Install two Roseland 500/230 kV transformers as part of the Susquehanna – Roseland 500 kV project	AEC (5.14%) / ComEd (0.29%) / Dayton (0.03%) / DPL (1.78%) / JCPL (33.04%) / Neptune* (6.38%) / PECO (10.14%) / PENELEC (0.57%) / PSEG (41.10%) / RE (1.53%) ††
b0489.5	Replace Roseland 230 kV breaker '42H' with 80 kA	Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)
		DFAX Allocation: JCPL (35.98%) / NEPTUNE (3.57%) / PSEG (58.08%) / RE (2.37%)

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0489.6	Replace Roseland 230 kV breaker '51H' with 80 kA	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: JCPL (35.98%) / NEPTUNE (3.57%) / PSEG (58.08%) / RE (2.37%)</p>
b0489.7	Replace Roseland 230 kV breaker '71H' with 80 kA	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: JCPL (35.98%) / NEPTUNE (3.57%) / PSEG (58.08%) / RE (2.37%)</p>

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0489.8	Replace Roseland 230 kV breaker '31H' with 80 kA	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: JCPL (35.98%) / NEPTUNE (3.57%) / PSEG (58.08%) / RE (2.37%)</p>

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0489.9	Replace Roseland 230 kV breaker '11H' with 80 kA	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: JCPL (35.98%) / NEPTUNE (3.57%) / PSEG (58.08%) / RE (2.37%)</p>
b0489.10	Replace Roseland 230 kV breaker '21H'	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: JCPL (35.98%) / NEPTUNE (3.57%) / PSEG (58.08%) / RE (2.37%)</p>

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0489.11	Replace Roseland 230 kV breaker '32H'	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: JCPL (35.98%) / NEPTUNE (3.57%) / PSEG (58.08%) / RE (2.37%)</p>
b0489.12	Replace Roseland 230 kV breaker '12H'	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: JCPL (35.98%) / NEPTUNE (3.57%) / PSEG (58.08%) / RE (2.37%)</p>

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0489.13	Replace Roseland 230 kV breaker '52H'	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: JCPL (35.98%) / NEPTUNE (3.57%) / PSEG (58.08%) / RE (2.37%)</p>
b0489.14	Replace Roseland 230 kV breaker '41H'	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: JCPL (35.98%) / NEPTUNE (3.57%) / PSEG (58.08%) / RE (2.37%)</p>

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0489.15	Replace Roseland 230 kV breaker '72H'	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: JCPL (35.98%) / NEPTUNE (3.57%) / PSEG (58.08%) / RE (2.37%)</p>
b0498	Loop the 5021 circuit into New Freedom 500 kV substation	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: AEC (8.35%) / JCPL (23.15%) / NEPTUNE (2.79%) / PECO (20.50%) / PSEG (43.44%) / RE (1.77%)</p>

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0498.1	Upgrade the 20H circuit breaker	PSEG (100%)
b0498.2	Upgrade the 22H circuit breaker	PSEG (100%)
b0498.3	Upgrade the 30H circuit breaker	PSEG (100%)
b0498.4	Upgrade the 32H circuit breaker	PSEG (100%)
b0498.5	Upgrade the 40H circuit breaker	PSEG (100%)
b0498.6	Upgrade the 42H circuit breaker	PSEG (100%)
b0512	MAPP Project – install new 500 kV transmission from Possum Point to Calvert Cliffs and install a DC line from Calvert Cliffs to Vienna and a DC line from Calvert Cliffs to Indian River	AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)
b0565	Install 100 MVAR capacitor at Cox's Corner 230 kV substation	PSEG (100%)

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

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

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Public Service Electric and Gas Company (cont.)

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

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Public Service Electric and Gas Company (cont.)

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

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Public Service Electric and Gas Company (cont.)

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

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Public Service Electric and Gas Company (cont.)

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

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0829	Build Branchburg to Roseland 500 kV circuit as part of Branchburg – Hudson 500 kV project	AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)
b0829.6	Replace Branchburg 500 kV breaker 91X	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: PSEG (96.13%) / RE (3.87%)</p>
b0829.9	Replace Branchburg 230 kV breaker 102H	PSEG (100%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0829.11	Replace Branchburg 230 kV breaker 32H	PSEG (100%)
b0829.12	Replace Branchburg 230 kV breaker 52H	PSEG (100%)
b0830	Build Roseland - Hudson 500 kV circuit as part of Branchburg – Hudson 500 kV project	AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)
b0830.1	Replace Roseland 230 kV breaker '82H' with 80 kA	PSEG (100%)
b0830.2	Replace Roseland 230 kV breaker '91H' with 80 kA	PSEG (100%)
b0830.3	Replace Roseland 230 kV breaker '22H' with 80 kA	PSEG (100%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0831 Replace 138/13 kV transformers with 230/13 kV units as part of Branchburg – Hudson 500 kV project		ComEd (2.57%) / Dayton (0.09%) / PENELEC (2.82%) / PSEG (90.97%) / RE (3.55%)
b0832 Build Hudson 500 kV switching station as part of Branchburg – Hudson 500 kV project		AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)
b0833 Build Roseland 500 kV switching station as part of Branchburg – Hudson 500 kV project		AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0834	Convert the E-1305/F-1306 to one 230 kV circuit as part of Branchburg – Hudson 500 kV project	ComEd (2.57%) / Dayton (0.09%) / PENELEC (2.82%) / PSEG (90.97%) / RE (3.55%)
b0835	Build Hudson 230 kV transmission lines as part of Roseland – Hudson 500 kV project as part of Branchburg – Hudson 500 kV project	ComEd (2.57%) / Dayton (0.09%) / PENELEC (2.82%) / PSEG (90.97%) / RE (3.55%)
b0836	Install transformation at new Hudson 500 kV switching station and perform Hudson 230 kV and 345 kV station work as part of Branchburg – Hudson 500 kV project	ComEd (2.57%) / Dayton (0.09%) / PENELEC (2.82%) / PSEG (90.97%) / RE (3.55%)
b0882	Replace Hudson 230 kV breaker 1HA with 80 kA	PSEG (100%)
b0883	Replace Hudson 230 kV breaker 2HA with 80 kA	PSEG (100%)
b0884	Replace Hudson 230 kV breaker 3HB with 80 kA	PSEG (100%)
b0885	Replace Hudson 230 kV breaker 4HA with 80 kA	PSEG (100%)
b0886	Replace Hudson 230 kV breaker 4HB with 80 kA	PSEG (100%)
b0889	Replace Bergen 230 kV breaker '21H'	PSEG (100%)
b0890	Upgrade New Freedom 230 kV breaker '21H'	PSEG (100%)
b0891	Upgrade New Freedom 230 kV breaker '31H'	PSEG (100%)
b0899	Replace ECRR 138 kV breaker 901	PSEG (100%)
b0900	Replace ECRR 138 kV breaker 902	PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1013	Replace Linden 138 kV breaker '7PB'	PSEG (100%)
b1017	Reconductor South Mahwah - Waldwick 345 kV J-3410 circuit	JCPL (29.27%) / NEPTUNE* (2.76%) / PSEG (65.42%) / RE (2.55%)
b1018	Reconductor South Mahwah - Waldwick 345 kV K-3411 circuit	JCPL (29.44%) / NEPTUNE* (2.76%) / PSEG (65.25%) / RE (2.55%)
b1019.1	Replace wave trap, line disconnect and ground switch at Roseland on the F-2206 circuit	PSEG (100%)
b1019.2	Replace wave trap, line disconnect and ground switch at Roseland on the B-2258 circuit	PSEG (100%)
b1019.3	Replace 1-2 and 2-3 section disconnect and ground switches at Cedar Grove on the F-2206 circuit	PSEG (100%)
b1019.4	Replace 1-2 and 2-3 section disconnect and ground switches at Cedar Grove on the B-2258 circuit	PSEG (100%)
b1019.5	Replace wave trap, line disconnect and ground switch at Cedar Grove on the F-2206 circuit	PSEG (100%)
b1019.6	Replace line disconnect and ground switch at Cedar Grove on the K-2263 circuit	PSEG (100%)

Public Service Electric and Gas Company (cont.)

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

Public Service Electric and Gas Company (cont.)

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

Public Service Electric and Gas Company (cont.)

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

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Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1156.16	Replace New Freedom 230 kV breaker '50H' with 63 kA	PSEG (100%)
b1156.17	Replace New Freedom 230 kV breaker '41H' with 63 kA	PSEG (100%)
b1156.18	Replace New Freedom 230 kV breaker '51H' with 63 kA	PSEG (100%)
b1156.19	Rebuild Camden 230 kV to 80 kA	PSEG (100%)
b1156.20	Rebuild Burlington 230 kV to 80 kA	PSEG (100%)
b1197.1	Reconductor the PSEG portion of the Burlington -- Croydon circuit with 1590 ACSS	PSEG (100%)
b1228	Re-configure the Lawrence 230 kV substation to breaker and half	PSEG (96.18%) / RE (3.82%)
b1255	Build a new 69 kV substation (Ridge Road) and build new 69 kV circuits from Montgomery -- Ridge Road -- Penns Neck/Dow Jones	PSEG (96.18%) / RE (3.82%)
b1304.1	Convert the existing 'D1304' and 'G1307' 138 kV circuits between Roseland -- Kearny -- Hudson to 230 kV operation	AEC (0.28%) / BGE (1.18%) / ComEd (2.83%) / Dayton (0.16%) / JCPL (1.43%) / Neptune (0.09%) / PENELEC (3.63%) / PEPCO (1.27%) / PSEG (85.73%) / RE (3.40%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1304.2	Expand existing Bergen 230 kV substation and reconfigure the Athenia 230 kV substation to breaker and a half scheme	AEC (0.28%) / BGE (1.18%) / ComEd (2.83%) / Dayton (0.16%) / JCPL (1.43%) / Neptune (0.09%) / PENELEC (3.63%) / PEPCO (1.27%) / PSEG (85.73%) / RE (3.40%)
b1304.3	Build second 230 kV underground cable from Bergen to Athenia	AEC (0.28%) / BGE (1.18%) / ComEd (2.83%) / Dayton (0.16%) / JCPL (1.43%) / Neptune (0.09%) / PENELEC (3.63%) / PEPCO (1.27%) / PSEG (85.73%) / RE (3.40%)
b1304.4	Build second 230 kV underground cable from Hudson to South Waterfront	AEC (0.28%) / BGE (1.18%) / ComEd (2.83%) / Dayton (0.16%) / JCPL (1.43%) / Neptune (0.09%) / PENELEC (3.63%) / PEPCO (1.27%) / PSEG (85.73%) / RE (3.40%)

Public Service Electric and Gas Company (cont.)

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

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1304.15	Replace Essex 230 kV breaker '21H' with 80 kA	PSEG (100%)
b1304.16	Replace Essex 230 kV breaker '10H' with 80 kA	PSEG (100%)
b1304.17	Replace Essex 230 kV breaker '11H' with 80 kA	PSEG (100%)
b1304.18	Replace Essex 230 kV breaker '11HL' with 80 kA	PSEG (100%)
b1304.19	Replace Newport R 230 kV breaker '23H' with 63 kA	PSEG (100%)
b1304.20	Rebuild Athenia 230 kV substation to 80 kA	PSEG (100%)
b1304.21	Rebuild Bergen 230 kV substation to 80 kA	PSEG (100%)
b1398	Build two new parallel underground circuits from Gloucester to Camden	JCPL (13.03%) / NEPTUNE (1.20%) / PECO (51.93%) / PEPSCO (0.58%) / PSEG (31.99%) / RE (1.27%)
b1398.1	Install shunt reactor at Gloucester to offset cable charging	JCPL (13.03%) / NEPTUNE (1.20%) / PECO (51.93%) / PEPSCO (0.58%) / PSEG (31.99%) / RE (1.27%)
b1398.2	Reconfigure the Cuthbert station to breaker and a half scheme	JCPL (13.03%) / NEPTUNE (1.20%) / PECO (51.93%) / PEPSCO (0.58%) / PSEG (31.99%) / RE (1.27%)
b1398.3	Build a second 230 kV parallel overhead circuit from Mickelton – Gloucester	JCPL (13.03%) / NEPTUNE (1.20%) / PECO (51.93%) / PEPSCO (0.58%) / PSEG (31.99%) / RE (1.27%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1398.4	Reconductor the existing Mickleton – Gloucester 230 kV circuit (PSEG portion)	JCPL (13.03%) / NEPTUNE (1.20%) / PECO (51.93%) / PEPSCO (0.58%) / PSEG (31.99%) / RE (1.27%)
b1398.7	Reconductor the Camden – Richmond 230 kV circuit (PSEG portion) and upgrade terminal equipments at Camden substations	JCPL (13.03%) / NEPTUNE (1.20%) / PECO (51.93%) / PEPSCO (0.58%) / PSEG (31.99%) / RE (1.27%)
b1398.15	Replace Gloucester 230 kV breaker '21H' with 63 kA	PSEG (100%)
b1398.16	Replace Gloucester 230 kV breaker '51H' with 63 kA	PSEG (100%)
b1398.17	Replace Gloucester 230 kV breaker '56H' with 63 kA	PSEG (100%)
b1398.18	Replace Gloucester 230 kV breaker '26H' with 63 kA	PSEG (100%)
b1398.19	Replace Gloucester 230 kV breaker '71H' with 63 kA	PSEG (100%)
b1399	Convert the 138 kV path from Aldene – Springfield Rd. – West Orange to 230 kV	PSEG (96.18%) / RE (3.82%)
b1400	Install 230 kV circuit breakers at Bennetts Ln. "F" and "X" buses	PSEG (100%)

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement		Responsible Customer(s)
b1410	Replace Salem 500 kV breaker '11X'		<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: PSEG (96.13%) / RE (3.87%)</p>
b1411	Replace Salem 500 kV breaker '12X'		<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: PSEG (96.13%) / RE (3.87%)</p>

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1412	Replace Salem 500 kV breaker '20X'	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: PSEG (96.13%) / RE (3.87%)</p>
b1413	Replace Salem 500 kV breaker '21X'	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: PSEG (96.13%) / RE (3.87%)</p>

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1414	Replace Salem 500 kV breaker '31X'	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: PSEG (96.13%) / RE (3.87%)</p>
b1415	Replace Salem 500 kV breaker '32X'	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: PSEG (96.13%) / RE (3.87%)</p>

* Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1539	Replace Tosco 230 kV breaker 'CB1' with 63 kA	PSEG (100%)
b1540	Replace Tosco 230 kV breaker 'CB2' with 63 kA	PSEG (100%)
b1541	Open the Hudson 230 kV bus tie	PSEG (100%)
b1588	Reconductor the Eagle Point - Gloucester 230 kV circuit #1 and #2 with higher conductor rating	JCPL (10.48%) / Neptune* (1.00%) / PECO (31.30%) / PSEG (55.03%) / RE (2.19%)
b1589	Re-configure the Kearny 230 kV substation and loop the P-2216-1 (Essex - NJT Meadows) 230 kV circuit	ATSI (10.02%) / PENELEC (9.74%) / PSEG (77.16%) / RE (3.08%)
b1590	Upgrade the PSEG portion of the Camden Richmond 230 kV circuit to six wire conductor and replace terminal equipment at Camden	BGE (3.06%) / ME (0.83%) / PECO (91.70%) / PEPCO (1.94%) / PPL (2.47%)
b1749	Advance n1237 (Replace Essex 230 kV breaker '22H' with 80kA)	PSEG (100%)
b1750	Advance n0666.5 (Replace Hudson 230 kV breaker 'IHB' with 80 kA (without TRV cap, so actually 63 kA))	PSEG (100%)
b1751	Advance n0666.3 (Replace Hudson 230 kV breaker '2HA' with 80 kA (without TRV cap, so actually 63 kA))	PSEG (100%)

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1752	Advance n0666.10 (Replace Hudson 230 kV breaker '2HB' with 80 kA (without TRV cap, so actually 63 kA))	PSEG (100%)
b1753	Marion 138 kV breaker '7PM' - delay the relay time to increase the contact parting time to 2.5 cycles	PSEG (100%)
b1754	Marion 138 kV breaker '3PM' - delay the relay time to increase the contact parting time to 2.5 cycles	PSEG (100%)
b1755	Marion 138 kV breaker '6PM' - delay the relay time to increase the contact parting time to 2.5 cycles	PSEG (100%)
b1787	Build a second 230 kV circuit from Cox's Corner - Lumberton	AEC (4.97%) / JCPL (44.34%) / NEPTUNE* (0.53%) / PSEG (48.23%) / RE (1.93%)
b2034	Install a reactor along the Kearny - Essex 138 kV line	PSEG (100%)
b2035	Replace Sewaren 138 kV breaker '11P'	PSEG (100%)
b2036	Replace Sewaren 138 kV breaker '21P'	PSEG (100%)
b2037	Replace PVSC 138 kV breaker '452'	PSEG (100%)
b2038	Replace PVSC 138 kV breaker '552'	PSEG (100%)

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

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

*Neptune Regional Transmission System, LLC

SCHEDULE 12 – APPENDIX A

(12) Public Service Electric and Gas Company

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

*Neptune Regional Transmission System, LLC

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

Public Service Electric and Gas Company (cont.)

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

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

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

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2436.22	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: PSEG (100%)</p>
b2436.33	Construct a new Bayway – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)
b2436.34	Construct a new North Ave – Bayonne 345 kV circuit and any associated substation upgrades	PSEG (100%)

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2436.50	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades	PSEG (100%)
b2436.60	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades	PSEG (100%)
b2436.70	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades	PSEG (100%)
b2436.81	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p>
		<p>DFAX Allocation: PSEG (96.08%) / RE (3.92%)</p>

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

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

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

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

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2437.10	New Bergen 345/230 kV transformer and any associated substation upgrades	PSEG (96.08%) / RE (3.92%)
b2437.11	New Bergen 345/138 kV transformer #1 and any associated substation upgrades	PSEG (100%)
b2437.20	New Bayway 345/138 kV transformer #1 and any associated substation upgrades	PSEG (96.08%) / RE (3.92%)
b2437.21	New Bayway 345/138 kV transformer #2 and any associated substation upgrades	PSEG (96.08%) / RE (3.92%)
b2437.30	New Linden 345/230 kV transformer and any associated substation upgrades	PSEG (96.08%) / RE (3.92%)
b2437.33	New Bayonne 345/69 kV transformer and any associated substation upgrades	PSEG (100%)
b2438	Install two reactors at Tosco 230 kV	PSEG (100%)
b2439	Replace the Tosco 138kV breaker 'CB1/2 (CBT)' with 63kA	PSEG (100%)
b2474	Rebuild Athenia 138 kV to 80kA	PSEG (100%)
b2589	Install a 100 MVAR 230 kV shunt reactor at Mercer station	PSEG (100%)
b2590	Install two 75 MVAR 230 kV capacitors at Sewaren station	PSEG (100%)

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

<p>b2633.3</p>	<p>Install an SVC at New Freedom 500 kV substation</p>		<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p>
<p>b2633.4</p>	<p>Add a new 500 kV bay at Hope Creek (Expansion of Hope Creek substation)</p>		<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p>

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2633.5	Add a new 500/230 kV autotransformer at Hope Creek and a new Hope Creek 230 kV substation		AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.8	Implement high speed relaying utilizing OPGW on Salem – Orchard 500 kV, Hope Creek – New Freedom 500 kV, New Freedom - Salem 500 kV, Hope Creek – Salem 500 kV, and New Freedom – Orchard 500 kV lines		<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)</p>

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b2633.91	Implement changes to the tap settings for the two Salem units' step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2633.92	Implement changes to the tap settings for the Hope Creek unit's step up transformers	AEC (0.01%) / DPL (99.98%) / JCPL (0.01%)
b2702	Install a 350 MVAR reactor at Roseland 500 kV	<p>Load-Ratio Share Allocation: AEC (1.61%) / AEP (14.10%) / APS (5.79%) / ATSI (7.95%) / BGE (4.11%) / ComEd (13.24%) / Dayton (2.07%) / DEOK (3.22%) / DL (1.73%) / DPL (2.48%) / Dominion (13.17%) / EKPC (2.13%) / JCPL (3.71%) / ME (1.88%) / NEPTUNE* (0.42%) / PECO (5.34%) / PENELEC (1.86%) / PEPSCO (3.98%) / PPL (4.76%) / PSEG (6.19%) / RE (0.26%)</p> <p>DFAX Allocation: PSEG (100%)</p>
b2703	Install a 100 MVAR reactor at Bergen 230 kV	PSEG (100%)
b2704	Install a 150 MVAR reactor at Essex 230 kV	PSEG (100%)
b2705	Install a 200 MVAR reactor (variable) at Bergen 345 kV	PSEG (100%)
b2706	Install a 200 MVAR reactor (variable) at Bayway 345 kV	PSEG (100%)
b2707	Install a 100 MVAR reactor at Bayonne 345 kV	PSEG (100%)

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

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

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b2836	Convert the N-1340 and T-1372/D-1330 (Brunswick – Trenton) 138 kV circuits to 230 kV circuits		PSEG (100%)
b2837	Convert the F-1358/Z1326 and K1363/Y-1325 (Trenton – Burlington) 138 kV circuits to 230 kV circuits		PSEG (100%)
b2870	Build new 138/26 kV Newark GIS station in a building (layout #1A) located adjacent to the existing Newark Switch and demolish the existing Newark Switch		PSEG (100%)
b2933	Third Source for Springfield Rd. and Stanley Terrace Stations		PSEG (100%)
b2933.1	Construct a 230/69 kV station at Springfield		PSEG (100%)
b2933.2	Construct a 230/69 kV station at Stanley Terrace		PSEG (100%)
b2933.3	Construct a 69 kV network between Front Street, Springfield and Stanley Terrace		PSEG (100%)
b2934	Build a new 69 kV line between Hasbrouck Heights and Carlstadt		PSEG (100%)
b2935	Third Supply for Runnemede 69 kV and Woodbury 69 kV		PSEG (100%)
b2935.1	Build a new 230/69 kV switching substation at Hilltop utilizing the PSE&G property and the K-2237 230 kV line		PSEG (100%)
b2935.2	Build a new line between Hilltop and Woodbury 69 kV providing the 3rd supply		PSEG (100%)

Public Service Electric and Gas Company (cont.)

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

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements Annual Revenue Requirement Responsible Customer(s)

b3003	Construct a 230/69 kV station at Maywood		PSEG (100%)
b3003.1	Purchase properties at Maywood to accommodate new construction		PSEG (100%)
b3003.2	Extend Maywood 230 kV bus and install one (1) 230 kV breaker		PSEG (100%)
b3003.3	Install one (1) 230/69 kV transformer at Maywood		PSEG (100%)
b3003.4	Install Maywood 69 kV ring bus		PSEG (100%)
b3003.5	Construct a 69 kV network between Spring Valley Road, Hasbrouck Heights, and Maywood		PSEG (100%)
b3004	Construct a 230/69/13 kV station by tapping the Mercer – Kuser Rd 230 kV circuit		PSEG (100%)
b3004.1	Install a new Clinton 230 kV ring bus with one (1) 230/69 kV transformer Mercer - Kuser Rd 230 kV circuit		PSEG (100%)
b3004.2	Expand existing 69 kV ring bus at Clinton Ave with two (2) additional 69 kV breakers		PSEG (100%)
b3004.3	Install two (2) 69/13 kV transformers at Clinton Ave		PSEG (100%)
b3004.4	Install 18 MVAR capacitor bank at Clinton Ave 69 kV		PSEG (100%)

Attachment 12
Updated PSE&G Formula Rate for January 1, 2019 to December 31, 2019



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January 18, 2019

VIA ELECTRONIC FILING

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

Re: Public Service Electric and Gas Company
Docket No. ER09-1257-000
Informational Filing of 2019 Formula Rate Annual Update (Revision)

Dear Secretary Bose:

On behalf of Public Service Electric and Gas Company ("PSE&G"), attached please find a revised informational filing of PSE&G's 2019 Transmission Formula Rate Annual Update. On October 15, 2018, PSE&G filed with the Federal Energy Regulatory Commission ("FERC" or "Commission") a 2019 Formula Rate Annual Update ("Annual Update") in the above-captioned docket.

This revised informational filing is being made to implement revisions to PSE&G's Formula Rate Template approved by the Commission on December, 28, 2018 in Docket No. ER19-204-000. The revisions, which are effective January 1, 2019, address various income tax-related items relating to the effects of the Tax Cuts and Jobs Act of 2017 (TCJA) and other Commission formula rate determinations.¹

In accordance with the Protocols set forth in PSE&G's Formula Rate, this submission is provided to the Commission for informational purposes only and requires no action by the Commission. As required by the Protocols, PSE&G is also providing a copy of this filing to PJM for posting on the PJM website. Consistent with the Commission Staff's Guidance on Formula Rate Updates,² PSE&G is submitting the updated formula rate template in Microsoft Excel format.

¹ *PJM Interconnection, L.L.C., Public Service electric and Gas Company*, 165 FERC ¶ 61,275 (2018).

The attached revised version of PSEG's 2019 Formula Rate Annual Update reduces the 2019 annual revenue requirement forecasted in the October 15, 2018 Annual Update by \$153,972,115.

In addition to PSE&G's revised 2019 Annual Formula Rate Update template, PSE&G also submits Workpaper 1, which contains additional exhibits providing supporting information pursuant to Commission Staff's Guidance on Formula Rate Updates.³

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

Respectfully submitted,

Hesser G. McBride, Jr.

Attachments

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

12 Months Ended
12/31/2019

Shaded cells are input cells
Allocators

Wages & Salary Allocation Factor				
1	Transmission Wages Expense	(Note O)	Attachment 5	33,000,000
2	Total Wages Expense	(Note O)	Attachment 5	207,904,693
3	Less A&G Wages Expense	(Note O)	Attachment 5	7,904,693
4	Total Wages Less A&G Wages Expense		(Line 2 - Line 3)	200,000,000
5	Wages & Salary Allocator		(Line 1 / Line 4)	16.5000%
Plant Allocation Factors				
6	Electric Plant In Service	(Note B)	Attachment 5	22,375,394,716
7	Common Plant in Service - Electric		(Line 22)	228,215,832
8	Total Plant In Service		(Line 6 + 7)	22,603,610,548
9	Accumulated Depreciation (Total Electric Plant)	(Note B & J)	Attachment 5	4,054,244,063
10	Accumulated Intangible Amortization - Electric	(Note B)	Attachment 5	6,208,457
11	Accumulated Common Plant Depreciation & Amortization - Electric	(Note B & J)	Attachment 5	43,587,119
12	Accumulated Common Amortization - Electric	(Note B)	Attachment 5	53,581,921
13	Total Accumulated Depreciation		(Line 9 + Line 10 + Line 11 + Line 12)	4,157,631,559
14	Net Plant		(Line 8 - Line 13)	18,445,978,989
15	Transmission Gross Plant		(Line 31)	12,358,298,172
16	Gross Plant Allocator		(Line 15 / Line 8)	54.6652%
17	Transmission Net Plant		(Line 43)	11,168,342,138
18	Net Plant Allocator		(Line 17 / Line 14)	60.5354%

Plant Calculations

Plant in Service				
19	Transmission Plant in Service	(Note B)	Attachment 5	12,258,568,555
20	General	(Note B)	Attachment 5	331,405,374
21	Intangible - Electric	(Note B)	Attachment 5	11,451,940
22	Common Plant - Electric	(Note B)	Attachment 5	228,215,832
23	Total General, Intangible & Common Plant		(Line 20 + Line 21 + Line 22)	571,073,146
24	Less: General Plant Account 397 - Communications	(Note B)	Attachment 5	18,700,675
25	Less: Common Plant Account 397 - Communications	(Note B)	Attachment 5	29,203,705
26	General and Intangible Excluding Acct. 397		(Line 23 - Line 24 - Line 25)	523,168,866
27	Wage & Salary Allocator		(Line 5)	16.5000%
28	General and Intangible Plant Allocated to Transmission		(Line 26 * Line 27)	86,322,863
29	Account No. 397 Directly Assigned to Transmission	(Note B)	Attachment 5	11,408,754
30	Total General and Intangible Functionalized to Transmission		(Line 28 + Line 29)	97,731,617
31	Total Plant in Rate Base		(Line 19 + Line 30)	12,358,298,172
Accumulated Depreciation				
32	Transmission Accumulated Depreciation	(Note B & J)	Attachment 5	1,136,185,567
33	Accumulated General Depreciation	(Note B & J)	Attachment 5	171,880,645
34	Accumulated Common Plant Depreciation - Electric	(Note B & J)	Attachment 5	97,179,040
35	Less: Amount of General Depreciation Associated with Acct. 397	(Note B & J)	Attachment 5	23,357,435
36	Balance of Accumulated General Depreciation		(Line 33 + Line 34 - Line 35)	245,702,250
37	Accumulated Intangible Amortization - Electric	(Note B)	(Line 10)	6,208,457
38	Accumulated General and Intangible Depreciation Ex. Acct. 397		(Line 36 + 37)	251,910,707
39	Wage & Salary Allocator		(Line 5)	16.5000%
40	Subtotal General and Intangible Accum. Depreciation Allocated to Transmission		(Line 38 * Line 39)	41,565,287
41	Accumulated General Depreciation Associated with Acct. 397 Directly Assigned to Transmission	(Note B & J)	Attachment 5	12,205,200
42	Total Accumulated Depreciation		(Lines 32 + 40 + 41)	1,189,958,033
43	Total Net Property, Plant & Equipment		(Line 31 - Line 42)	11,168,342,138

Public Service Electric and Gas Company			12 Months Ended 12/31/2019
ATTACHMENT H-10A			
Formula Rate – Appendix A	Notes	FERC Form 1 Page # or Instruction	
Shaded cells are input cells			
Adjustment To Rate Base			
44	Accumulated Deferred Income Taxes ADIT net of FASB 106 and 109	(Note Q) Attachment 1	-1,869,703,101
Regulatory Assets and Liabilities			
44a	Deficient Deferred Taxes Regulatory Asset (Account 162.3)	(Note V)	0
44b	Excess Deferred Taxes Regulatory Liability (Account 254)	(Note V)	-750,501,298
44c	Deficient/Excess Deferred Taxes Regulatory Assets and Liabilities Allocated to Transmission	(Line 44a + 44b)	-750,501,298
CWIP for Incentive Transmission Projects			
45	CWIP Balances for Current Rate Year	(Note B & H) Attachment 6	0
Abandoned Transmission Projects			
45a	Unamortized Abandoned Transmission Projects	(Note R) Attachment 5	0
46	Plant Held for Future Use	(Note C & Q) Attachment 5	21,553,978
Prepayments			
47	Prepayments	(Note A & Q) Attachment 5	277,073
Materials and Supplies			
48	Undistributed Stores Expense	(Note Q) Attachment 5	0
49	Wage & Salary Allocator	(Line 5)	16,5000%
50	Total Undistributed Stores Expense Allocated to Transmission	(Line 48 * Line 49)	0
51	Transmission Materials & Supplies	(Note N & Q)) Attachment 5	29,539,555
52	Total Materials & Supplies Allocated to Transmission	(Line 50 + Line 51)	29,539,555
Cash Working Capital			
53	Operation & Maintenance Expense	(Line 80)	129,886,619
54	1/8th Rule	1/8	12.5%
55	Total Cash Working Capital Allocated to Transmission	(Line 53 * Line 54)	16,235,827
Network Credits			
56	Outstanding Network Credits	(Note N & Q)) Attachment 5	0
57	Total Adjustment to Rate Base	(Lines 44 + 44c + 45 + 45a + 46 + 47 + 52 + 55 - 56)	(2,552,597,988)
58	Rate Base	(Line 43 + Line 57)	8,613,744,172
Operations & Maintenance Expense			
Transmission O&M			
59	Transmission O&M	(Note O) Attachment 5	110,528,262
60	Plus Transmission Lease Payments	(Note O) Attachment 5	0
61	Transmission O&M	(Lines 59 + 60)	110,528,262
Allocated Administrative & General Expenses			
62	Total A&G	(Note O) Attachment 5	116,449,462
63	Plus: Actual P&OP expense	(Note J) Attachment 5	32,322,615
64	Less: Actual P&OP expense	(Note O) Attachment 5	32,322,615
65	Less Property Insurance Account 524	(Note O) Attachment 5	3,877,140
66	Less Regulatory Commission Exp Account 928	(Note E & O) Attachment 5	10,559,683
67	Less General Advertising Exp Account 930.1	(Note O) Attachment 5	3,492,891
68	Less EPRJ Dues	(Note D & C) Attachment 5	0
69	Administrative & General Expenses	Sum (Lines 62 to 63) - Sum (Lines 64 to 68)	98,519,749
70	Wage & Salary Allocator	(Line 5)	16,5000%
71	Administrative & General Expenses Allocated to Transmission	(Line 69 * Line 70)	16,255,759
Directly Assigned A&G			
72	Regulatory Commission Exp Account 928	(Note G & O) Attachment 5	755,558
73	General Advertising Exp Account 930.1	(Note K & O) Attachment 5	0
74	Subtotal - Accounts 928 and 930.1 - Transmission Related	(Line 72 + Line 73)	755,558
75	Property Insurance Account 924	(Line 65)	3,877,140
76	General Advertising Exp Account 930.1	(Note F & O) Attachment 5	0
77	Total Accounts 928 and 930.1 - General	(Line 75 + Line 76)	3,877,140
78	Net Plant Allocator	(Line 18)	60,6354%
79	A&G Directly Assigned to Transmission	(Line 77 * Line 78)	2,347,041
80	Total Transmission O&M	(Lines 61 + 71 + 74 + 79)	129,886,619

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

12 Months Ended 12/31/2019

Shaded cells are input cells

Depreciation & Amortization Expense

Depreciation Expense				
81	Transmission Depreciation Expense Including Amortization of Limited Term Plant	(Note J & O)	Attachment 5	291,319,276
81a	Amortization of Abandoned Plant Projects	(Note R)	Attachment 5	0
82	General Depreciation Expense Including Amortization of Limited Term Plant	(Note J & O)	Attachment 5	28,572,417
83	Less: Amount of General Depreciation Expense Associated with Acct. 397	(Note J & O)	Attachment 5	4,771,700
84	Balance of General Depreciation Expense		(Line 82 - Line 83)	23,800,717
85	Intangible Amortization	(Note A & C)	Attachment 5	11,230,055
86	Total		(Line 84 + Line 85)	35,030,772
87	Wage & Salary Allocator		(Line 5)	18,50%
88	General Depreciation & Intangible Amortization Allocated to Transmission		(Line 86 * Line 87)	5,760,077
89	General Depreciation Expense for Acct. 397 Directly Assigned to Transmission	(Note J & O)	Attachment 5	1,132,353
90	General Depreciation and Intangible Amortization Functionalized to Transmission		(Line 88 + Line 89)	6,912,431
91	Total Transmission Depreciation & Amortization		(Lines 81 + 81a + 90)	298,231,707

Taxes Other than Income Taxes

92	Taxes Other than Income Taxes	(Note O)	Attachment 2	10,899,920
93	Total Taxes Other than Income Taxes		(Line 92)	10,899,920

Return & Capitalization Calculations

94	Long Term Interest		p117.62.c through 67.c	320,692,677
95	Preferred Dividends	enter positive	p118.29.d	0
Common Stock				
96	Proprietary Capital	(Note P)	Attachment 5	9,339,162,134
97	Less Accumulated Other Comprehensive Income Account 219	(Note P)	Attachment 5	657,984
98	Less Preferred Stock		(Line 106)	0
99	Less Account 216.1	(Note P)	Attachment 5	1,805,139
100	Common Stock		(Line 96 - 97 - 98 - 99)	9,336,699,012
Capitalization				
101	Long Term Debt	(Note P)	Attachment 5	8,250,250,992
102	Less Loss on Reacquired Debt	(Note P)	Attachment 5	57,960,830
103	Plus Gain on Reacquired Debt	(Note P)	Attachment 5	0
104	Less ADIT associated with Gain or Loss	(Note P)	Attachment 5	14,425,336
105	Total Long Term Debt		(Line 101 - 102 + 103 - 104)	8,177,864,827
106	Preferred Stock	(Note P)	Attachment 5	0
107	Common Stock		(Line 100)	9,336,699,012
108	Total Capitalization		(Sum Lines 105 to 107)	17,514,563,838
109	Debt %		Total Long Term Debt (Line 105 / Line 108)	46.65%
110	Preferred %		Preferred Stock (Line 106 / Line 108)	0.00%
111	Common %		Common Stock (Line 107 / Line 108)	53.31%
112	Debt Cost		Total Long Term Debt (Line 94 / Line 105)	0.0392
113	Preferred Cost		Preferred Stock (Line 95 / Line 106)	0.0000
114	Common Cost	(Note J)	Common Stock Fixed	0.1168
115	Weighted Cost of Debt		Total Long Term Debt (WCLTD) (Line 109 * Line 112)	0.0183
116	Weighted Cost of Preferred		Preferred Stock (Line 110 * Line 113)	0.0000
117	Weighted Cost of Common		Common Stock (Line 111 * Line 114)	0.0623
118	Rate of Return on Rate Base (ROR)		(Sum Lines 115 to 117)	0.0806
119	Investment Return = Rate Base * Rate of Return		(Line 58 * Line 118)	694,044,243

Public Service Electric and Gas Company				12 Months Ended
ATTACHMENT H-10A				12/31/2019
Formula Rate – Appendix A	Notes	FERC Form 1 Page # or Instruction		
Shaded cells are input cells				
Composite Income Taxes				
Income Tax Rates				
120	FIT=Federal Income Tax Rate	(Note I)		21.00%
121	SIT=State Income Tax Rate or Composite			9.00%
122	p	(percent of federal income tax deductible for state purposes)	Per State Tax Code	0.00%
123	T	$T = 1 - \frac{((1 - SIT) * (1 - FIT))}{(1 - SIT * FIT * p)}$		28.11%
124	T / (1-T)			38.10%
ITC Adjustment				
125	Amortized Investment Tax Credit	enter negative	(Note O) Attachment 5	-716,424
126	1/(1-T)		1 / (1 - Line 123)	139.10%
127	Net Plant Allocation Factor		(Line 18)	60.54%
128	ITC Adjustment Allocated to Transmission		(Line 125 * Line 126 * Line 127)	-803,289
Deficient/Excess Deferred Taxes Amortization				
128a	Amortized Deficient Deferred Taxes (Account 410.1)		(Note S & V)	0
128b	Amortized Excess Deferred Taxes (Account 411.1)	enter negative	(Note T & V)	-113,703,722
128c	Total		(Line 128a + Line 128b)	-113,703,722
128d	1/(1-T)		1 / (1 - Line 123)	139.10%
128e	Deficient/Excess Deferred Taxes Allocated to Transmission		(Line 128c * Line 128d)	-158,163,475
AFUDC Equity Permanent Difference				
128f	Tax Effect of AFUDC Equity Permanent Difference		(Note U)	1,196,644
128g	1/(1-T)		1 / (1 - Line 123)	139.10%
128h	AFUDC Equity Permanent Difference Tax Adjustment		(Line 128f * Line 128g)	1,664,549
129	Income Tax Component =	$(T/(1-T)) * Investment\ Return * (1 - (WCLTD/ROR)) =$	(Line 124 * Line 119 * (1 - (Line 115 / Line 118)))	209,710,997
130	Total Income Taxes		(Lines 128 + 128a + 128h + 129)	52,608,802
Revenue Requirement				
Summary				
131	Net Property, Plant & Equipment		(Line 43)	11,166,342,136
132	Total Adjustment to Rate Base		(Line 57)	-2,692,697,986
133	Rate Base		(Line 58)	8,613,744,172
134	Total Transmission O&M		(Line 80)	129,886,619
135	Total Transmission Depreciation & Amortization		(Line 91)	298,231,707
136	Taxes Other than Income		(Line 93)	10,899,920
137	Investment Return		(Line 119)	694,044,243
138	Income Taxes		(Line 130)	52,608,802
139	Gross Revenue Requirement		(Sum Lines 134 to 138)	1,185,671,292
Adjustment to Remove Revenue Requirements Associated with Excluded Transmission Facilities				
140	Transmission Plant In Service		(Line 19)	12,258,566,555
141	Excluded Transmission Facilities	(Note B & M)	Attachment 6	0
142	Included Transmission Facilities		(Line 140 - Line 141)	12,258,566,555
143	Inclusion Ratio		(Line 142 / Line 140)	100.00%
144	Gross Revenue Requirement		(Line 139)	1,185,671,292
145	Adjusted Gross Revenue Requirement		(Line 143 * Line 144)	1,185,671,292
Revenue Credits & Interest on Network Credits				
146	Revenue Credits	(Note O)	Attachment 3	24,750,242
147	Interest on Network Credits	(Note N & O)	Attachment 5	0
148	Net Revenue Requirement		(Line 145 - Line 146 + Line 147)	1,160,921,050
Net Plant Carrying Charge				
149	Gross Revenue Requirement		(Line 144)	1,185,671,292
150	Net Transmission Plant, CWP and Abandoned Plant		(Line 19 - Line 32 + Line 45 + Line 45a)	11,122,380,988
151	Net Plant Carrying Charge		(Line 149 / Line 150)	10.6602%
152	Net Plant Carrying Charge without Depreciation		(Line 149 - Line 81) / Line 150	8.0410%
153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes		(Line 149 - Line 81 - Line 119 - Line 130) / Line 150	1.3279%
Net Plant Carrying Charge Calculation per 100 Basis Point Increase in ROE				
154	Gross Revenue Requirement Less Return and Taxes		(Line 144 - Line 137 - Line 138)	439,018,248
155	Increased Return and Taxes		Attachment 4	810,526,076
156	Net Revenue Requirement per 100 Basis Point Increase in ROE		(Line 154 + Line 155)	1,249,544,322
157	Net Transmission Plant, CWP and Abandoned Plant		(Line 19 - Line 32 + Line 45 + Line 45a)	11,122,380,988
158	Net Plant Carrying Charge per 100 Basis Point Increase in ROE		(Line 156 / Line 157)	11.2345%
159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation		(Line 156 - Line 81) / Line 157	8.6153%
Not Revenue Requirement				
160	True-up amount		(Line 148)	1,160,921,050
161	Plus any increased RDE calculated on Attachment 7 other than PJM Sch. 12 projects not paid by other PJM transmission zones		Attachment 6	27,631,675
162	Facility Credits under Section 30.9 of the PJM DATT		Attachment 7	6,204,982
163	Net Zonal Revenue Requirement		Attachment 5	0
164	Net Zonal Revenue Requirement		(Line 160 + 161 + 162 + 163)	1,194,757,707
Network Zonal Service Rate				
165	1 CP Peak	(Note L)	Attachment 5	9,978.3
166	Rate (\$/MW-Year)		(Line 164 / 165)	119,735.80
167	Network Service Rate (\$/MW/Year)		(Line 166)	119,735.80

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

12 Months Ended
12/31/2019

Shaded cells are input cells

Notes

- A Electric portion only
- B Calculated using 13-month average balances
- C Includes Transmission portion only. At each annual informational filing, Company will identify for each parcel of land an Intended use within a 15 year period
- D Includes all: EPR: Annual Membership Dues
- E Includes all: Regulatory Commission Expenses
- F Includes Safety related advertising included in Account 930.1
- G Includes Regulatory Commission Expenses directly related to transmission service, RTO filings, or transmission siting itemized in Form 1 at 351.h
- H CWIP can only be included if authorized by the Commission
- I The currently effective income tax rate where FIT is the Federal income tax rate; SIT is the State income tax rate, and p = the percentage of federal income tax deductible for state income taxes
- J ROE will be supported in the original filing and no change in ROE will be made absent a filing at FERC
PBOP expense shall be based upon the Company's Actual Annual PBOP Expense until changed by a filing at FERC
The actual Annual PBOP Expense to be included in the Formula Rate Annual Update that is required to be filed on or before October 15 of each year shall be based upon the Actual Annual PBOP Expense as charged to FERC Account 926 on behalf of electric employees for PBOP and as included by the Company in its most recent True-up Adjustment filing.
PSEG will provide, in connection with each annual True-Up Adjustment filing a confidential copy of relevant pages from annual actuarial valuation report supporting the derivation of the Actual Annual PBOP Expense as charged to FERC Account 926 on behalf of electric employees
Depreciation rates shown in Attachment 8 are fixed until changed as the result of a filing at FERC
If book depreciation rates are different than the Attachment 8 rates, PSE&G will provide workpapers at the annual update to reconcile formula depreciation expense and depreciation accruals to FERC Form 1 amounts
- K Education and outreach expenses relating to transmission, for example siting or billing
- L As provided for in Section 34.1 of the PJM OAT; the PJM established billing determinants will not be revised or updated in the annual rate reconciliations
- M Amount of transmission plant excluded from rates per Attachment 5
- N Outstanding Network Credits is the balance of Network Facilities Upgrades Credits due Transmission Customers who have made lump-sum payments towards the construction of Network Transmission Facilities consistent with Paragraph 657 of Order 2003-A
Interest on the Network Credits as booked each year is added to the revenue requirement to make the Transmission Owner whole on Line "&A248&:"
- O Expenses reflect full year plan
- P The projected capital structure shall reflect the capital structure from the FERC Form 1 data. For all other formula rate calculations, the projected capital structure and actual capital structure shall reflect the capital structure from the most recent FERC Form 1 data available.
Calculated using the average of the prior year and current year balances
- Q Calculated using beginning and year end projected balances
- R Unamortized Abandoned Plant and Amortization of Abandoned Plant may only be included pursuant to a Commission Order authorizing such inclusion
- S Includes the amortization of any deficient deferred income taxes resulting from changes to income tax laws, income tax rates (including changes in apportionment) and other actions taken by a taxing authority.
Deficient deferred income taxes will increase tax expense by the amount of the deficiency multiplied by (1/1-T) (Line 128e).
- T Includes the amortization of any excess deferred income taxes resulting from changes to income tax laws, income tax rates (including changes in apportionment) and other actions taken by a taxing authority.
Excess deferred income taxes will decrease tax expense by the amount of the excess multiplied by (1/1-T) (Line 128e).
- U Includes the annual income tax cost or benefits due to the AFUDC Equity permanent difference. (1/1-T) multiplied by the amount of AFUDC Equity permanent difference included in Line 128f and will increase or decrease tax expense by the amount of the expense or benefit included on Line 128f multiplied by (1/1-T) (Line 128h).
- V Unamortized Excess/Deficient Deferred Tax Regulatory Liabilities/Assets and the Amortization of those Regulatory Liabilities/Assets arising from future tax changes may only be included pursuant to Commission approval authorizing such inclusion.

Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet - December 31, 2019

	Only Transmission Related	Plant Related	Labor Related	Total ADIT	
ADIT-282 (Not Subject to Proration)	0	0	0		From Acct. 282 (Not Subject to Proration) total, below
ADIT-282	0	(4,905,051)	(967,854)		From Acct. 283 total, below
ADIT-190	0	0	4,447,881		From Acct. 190 total, below
Subtotal	0	(4,905,051)	3,480,127		
Wages & Salary Allocator			16,500,000		
Net Plant Allocator		60,820,546			
End of Year ADIT	0	(2,969,281)	574,221	(2,395,079)	
End of Previous Year ADIT (from Sheet 1A-ADIT)	0	(1,967,589)	558,481	(1,434,198)	
Average Beginning and End of Year ADIT	0	(2,468,435)	566,351	(1,914,629)	
ADIT-282 (Subject to Proration)	(1,352,258,818)	0	(8,529,854)	(1,360,788,672)	From Acct. 282 (Subject to Proration) total, below
Total Accumulated Deferred Income Taxes				(1,363,725,101)	Appendix A, Line 44

Note: ADIT as associated with Gain or Loss on Reacquired Debt is included in Column A here and included in Cost of Debt on Appendix A, Line 108
 (4,905,051) < From Acct 283, below

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

A	B Total	C Gas, Prod Or Other Related	D Only Transmission Related	E Plant Related	F Labor Related	G
ADIT-190						Fire/Exp 45m
ADIT - Contribution in Aid of Construction	30,572,191	30,572,191	0	0	0	Represents the estimated IRC 118 amount (CHG)
OPBP	153,828,037	0	0	0	153,828,037	FASB 106 - Post Retirement Obligation, labor related
Deferred Dividend Equivalents	1,797,096	0	0	0	1,797,096	Book amount of dividends on employee stock options affecting all functions
Deferred Compensation	358,287	0	0	0	358,287	Book estimate accrued and expensed, tax deduction when paid - employees in all functions
Bank/notes S Act	209,847	209,847	0	0	0	Book estimate accrued and expensed, tax deduction when paid - Generation Skilled
Federal Taxes Deferred	26,808,105	0	0	26,808,105	0	FASB 109 - deferred tax asset estimate associated with items previously flowed through due to regulation
Miscellaneous	2,292,598	0	0	0	2,292,598	Various
Subtotal - 1034	218,754,181	30,782,038	0	26,808,105	158,074,038	
Less FASB 109 Above if not separately removed	26,808,105				26,808,105	
Less FASB 106 Above if not separately removed	153,626,057				153,626,057	
Total	33,230,019	30,782,038	0	0	4,447,881	

Instructions for Account 190:

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

A	B Total	C Gas, Prod Costs	D Only Transmission Related	E Plant Related	F Labor Related	G
ADIT- 213						
Indemnification/Contract Costs	(81,162,925)	(81,162,925)	0	0	0	0
Net Asset Contribution Purchase Tax	9,159,598	9,159,598	0	0	0	0
Accumulated Debits Plan	(1,892,831)	(1,892,831)	0	0	0	0
Loss on Resignation Costs	(4,802,261)	0	0	(4,802,261)	0	0
Additional Production Deduction	(117,794,795)	(117,794,795)	0	0	0	0
Miscellaneous	(15,622,499)	(15,622,499)	0	0	0	0
Deferred Gen	(8,829,620)	(8,829,620)	0	0	0	0
Accounting Income Taxes (25% Federal)	(8,128,628)	0	0	(8,128,628)	0	0
Subtotal - ADIT	(237,679,425)	(237,679,425)	0	(93,729,594)	(93,729,594)	0
Less FASB 158 Above If not initially removed	(84,329,245)	0	0	(84,329,245)	0	0
Less FASB 158 Above If not initially removed	(240,831,634)	0	0	(240,831,634)	0	0
Total	(562,839,304)	(562,839,304)	0	(318,388,479)	(318,388,479)	0

Adjustments for Account 285:

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

Public Service Electric and Gas Company
 ATTACHMENT 1A
 Attachment 1A - Accumulated Deferred Income Taxes (ADIT) Worksheet - December 31, 2018

	Only Transmitted Referred	Plant Referred	Plant Referred	Plant Referred	Total ADIT
ADIT-282 (Not Subject to Provision)	0	0	0	0	
ADIT-283	0	(3,291,743)	0	44,571	From Acct. 282 (Not Subject to Provision) total, below
ADIT-190	0	0	3,247,170	3,247,170	From Acct. 283 total, below
Wages & Salary Allocator	0	(3,291,743)	0	18,520,076	From Acct. 190 total, below
Net Plant Allocator	0	90,525,416	0	0	
End of Year ADIT	0	(1,792,969)	358,681	0	(1,434,188)

Note: ADIT associated with Gain or Loss on Reacquired Debt is included in Column A here and included in Cost of Debt on Appendix A, Line 108
 (3,291,743) < From Acct 283, below

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

A	B Total	C Gas, Fuel or Other Referred	D City Transmission Referred	E Plant Referred	F Labor Referred	G
ADIT-190						
ADIT - Contribution in Aid of Construction	39,971,172	39,971,172	0	0	0	0
Vacation Pay	47,961	0	0	0	47,961	0
DEFER	152,024,701	0	0	0	152,024,701	0
Deferred Children's Facilities	3,888,938	0	0	0	2,888,938	0
Deferred Construction	404,193	0	0	0	404,193	0
Electricity & Fuel	248,854	248,854	0	0	0	0
Excess Taxes Deferred	13,454,092	0	0	13,454,092	0	0
Woodstock	577,742,296	577,742,296	0	0	0	0
Subtotal - 1021	780,531,296	613,962,293	0	13,454,092	158,411,841	0
Less: FASB 108, Above if not separately removed	13,454,092	0	0	13,454,092	0	0
Less: FASB 108, Below if not separately removed	15,075,181	0	0	0	15,075,181	0
Total	\$1,387,453,333	\$13,962,293	0	0	3,247,170	0

Instructions for Account 190:
 1. ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C
 2. ADIT items related only to Transmission are directly assigned to Column D
 3. ADIT items related to Plant and not in Columns C & D are included in Column E
 4. ADIT items related to labor and not in Columns C & D are included in Column F
 5. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates; therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded

Public Service Electric and Gas Company
 Accumulated Deferred Income Taxes (ADIT) Worksheet - December 31, 2018

Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet

A	B	C	D	E	F	G
ADIT-282 (Not Subject to Proration)	Total	Gas Prod Or Other Related	Transmission Related	Plant Related	Labor Related	
Accumulated Income Taxes	(317,272,320)	(261,212,758)	(49,588,141)	0	(6,471,421)	
Subtotal-ADIT-282 (Not Subject to Proration)	(317,272,320)	(261,212,758)	(49,588,141)	0	(6,471,421)	
Less FASB 108 Above If not separately removed	(317,272,320)	(261,212,758)	(49,588,141)	0	(6,471,421)	
Less FASB 108 Above If not separately removed	0	0	0	0	0	0
Total ADIT-282 (Not Subject to Proration)	0	0	0	0	0	0

A	B	C	D	E	F	G
ADIT-287 (Subject to Proration)	Total	Gas Prod Or Other Related	Transmission Related	Plant Related	Labor Related	
Decommission - Unavailable Decommission (Capital)	(2,842,275,150)	(1,360,200,639)	(1,532,248,347)	0	(93,826,164)	
Decommission - Unavailable Decommission (Other)	(918,208,698)	(91,527,945)	(71,482,350)	0	(135,198,303)	
Subtotal-ADIT-287 (Subject to Proration)	(3,760,483,848)	(1,451,728,584)	(1,603,730,697)	0	(229,024,467)	
Less FASB 108 Above If not separately removed	(3,760,483,848)	(1,451,728,584)	(1,603,730,697)	0	(229,024,467)	
Less FASB 108 Above If not separately removed	0	0	0	0	0	0
Total ADIT-287 (Subject to Proration)	(3,760,483,848)	(1,451,728,584)	(1,603,730,697)	0	(229,024,467)	

Instructions for Account 282:

- ADIT items subject to the IRS's proration methodology shall be included in the ADIT-282 (subject to proration) section in order to avoid the double counting of prorated ADIT balances
- ADIT items related only to Non-Electric Operations (e.g. Gas, Water, Sewer) or Production are directly assigned to Column C
- ADIT items related only to Transmission are directly assigned to Column D
- ADIT items related to Plant and not in Columns C & D are included in Column E
- ADIT items related to labor and not in Columns C & D are included in Column F
- Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates, therefore if the term giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be established

Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment TA - Accumulated Deferred Income Taxes (ADIT) Worksheet - December 31, 2018

ADIT - 2012	A	B	C	D	E	F	G
	Total	Gas, Prod Defer	Transmission Defer	Other Defer	Plant Defer	Labor Defer	Investment
End-of-year Change Balance	81,155,250	81,155,250	0	0	0	0	0
Accumulated Activity Prior Year on Hand/Level Debt	11,490,870	11,490,870	0	0	0	0	0
Level on Hand/Level Debt	12,281,743	0	0	0	12,281,743	0	0
Additional Production Deduction	19,016,218	0	0	0	0	0	19,016,218
Production Gain	189,507,500	189,507,500	0	0	0	0	0
Accounts for Income Taxes (FASB 107) - Federal	25,508,000	0	0	0	25,508,000	0	0
Subtotal-2017	225,222,411	225,222,411	0	0	27,790,743	0	19,016,218
Less FASB 108 Above & not separately removed	25,229,800	0	0	0	25,229,800	0	0
Less FASB 108 Below & not separately removed	0	0	0	0	0	0	0
Total	199,992,611	199,992,611	0	0	2,560,943	0	19,016,218

Instructions for Account 283:

1. ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column C.

2. ADIT items related to Plant and not in Column C, A, B are included in Column B.

3. ADIT items related to Plant and not in Column C, A, B are included in Column B.

4. ADIT items related to Labor and not in Column C, A, B are included in Column F.

5. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates. Therefore if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded.

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 2 - Taxes Other Than Income Worksheet - December 31, 2019

<i>Other Taxes</i>	<i>Page 263 Col (j)</i>	<i>Allocator</i>	<i>Allocated Amount</i>
 <i>Plant Related</i>			
1 Real Estate	22,188,000		Attachment #5
2 Total Plant Related	22,188,000 N/A		8,848,000
 <i>Labor Related</i>			
<i>Wages & Salary Allocator</i>			
3 FICA	11,122,823		
4 Federal Unemployment Tax	251,132		
5 New Jersey Unemployment Tax	536,298		
6 New Jersey Workforce Development	525,625		
7			
8 Total Labor Related	12,435,878	16.5000%	2,051,920
 <i>Other Included</i>			
<i>Net Plant Allocator</i>			
9			
10			
11			
12			
13 Total Other Included	0	60.5354%	0
14 Total Included (Lines 8 + 14 + 19)	<u>34,623,878</u>		<u>10,899,920</u>
 <i>Currently Excluded</i>			
15 Corporate Business Tax	0		
16 TEFA	0		
17 Use & Sales Tax	0		
18 Local Franchise Tax	0		
19 PA Corporate Income Tax	0		
20 Municipal Utility	0		
21 Public Utility Fund	0		
22 Subtotal, Excluded	<u>0</u>		
23 Total, Included and Excluded (Line 20 + Line 28)	34,623,878		
24 Total Other Taxes from p114.14.g - Actual	34,623,878		
25 Difference (Line 29 - Line 30)	-		

Criteria for Allocation:

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

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 3 - Revenue Credit Workpaper - December 31, 2019

Accounts 450 & 451		
1	Late Payment Penalties Allocated to Transmission	0
Account 454 - Rent from Electric Property		
2	Rent from Electric Property - Transmission Related (Note 2)	600,000
Account 456 - Other Electric Revenues		
3	Transmission for Others	0
4	Schedule 1A	5,040,000
5	Net revenues associated with Network Integration Transmission Service (NITS) for which the load is not included in the divisor (difference between NITS credits from PJM and PJM NITS charges paid by Transmission Owner)	
6	Point to Point Service revenues for which the load is not included in the divisor received by Transmission Owner	10,200,000
7	Professional Services (Note 2)	45,000
8	Revenues from Directly Assigned Transmission Facility Charges (Note 1)	7,550,991
9	Rent or Attachment Fees associated with Transmission Facilities (Note 2)	4,805,691
10	Gross Revenue Credits	(Sum Lines 1-9) <u>28,241,682</u>
11	Less line 18	- line 18 <u>(3,491,440)</u>
12	Total Revenue Credits	line 10 + line 11 <u>24,750,242</u>
13	Revenues associated with lines 2, 7, and 9 (Note 2)	5,450,691
14	Income Taxes associated with revenues in line 13	1,632,189
15	One half margin (line 13 - line 14)/2	1,959,251
16	All expenses (other than income taxes) associated with revenues in line 13 that are included in FERC accounts recovered through the formula times the allocator used to functionalize the amounts in the FERC account to the transmission service at issue.	-
17	Line 15 plus line 16	1,959,251
18	Line 13 less line 17	3,491,440

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

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

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

A	Return and Taxes with 100 Basis Point Increase in ROE		Line 27 + Line 47 from below	810,526,076
B	100 Basis Point Increase in ROE			1.00%
Return Calculation				
1	Rate Base		(Line 43 + Line 57)	8,613,744,172
2	Long Term Interest		p117.62.c through 67.c	320,692,877
3	Preferred Dividends	enter positive	p118.29.d	0
Common Stock				
4	Proprietary Capital		Attachment 5	9,339,162,134
5	Less Accumulated Other Comprehensive Income Account 219		p112.15.c	657,984
6	Less Preferred Stock		(Line 106)	0
7	Less Account 216.1		Attachment 5	1,805,139
8	Common Stock		(Line 96 - 97 - 98 - 99)	9,336,699,012
Capitalization				
9	Long Term Debt		Attachment 5	8,250,250,992
10	Less Loss on Reacquired Debt		Attachment 5	57,960,830
11	Plus Gain on Reacquired Debt		Attachment 5	0
12	Less ADIT associated with Gain or Loss		Attachment 5	14,425,336
13	Total Long Term Debt		(Line 101 - 102 + 103 - 104)	8,177,864,827
14	Preferred Stock		Attachment 5	0
15	Common Stock		(Line 100)	9,336,699,012
16	Total Capitalization		(Sum Lines 105 to 107)	17,514,563,838
17	Debt %	Total Long Term Debt	(Line 105 / Line 108)	46.7%
18	Preferred %	Preferred Stock	(Line 106 / Line 108)	0.0%
19	Common %	Common Stock	(Line 107 / Line 108)	53.3%
20	Debt Cost	Total Long Term Debt	(Line 94 / Line 105)	0.0392
21	Preferred Cost	Preferred Stock	(Line 95 / Line 106)	0.0000
22	Common Cost	Common Stock	(Line 114 + 100 basis points)	0.1268
23	Weighted Cost of Debt	Total Long Term Debt (WCLTD)	(Line 109 * Line 112)	0.0183
24	Weighted Cost of Preferred	Preferred Stock	(Line 110 * Line 113)	0.0000
25	Weighted Cost of Common	Common Stock	(Line 111 * Line 114)	0.0979
26	Rate of Return on Rate Base (ROR)		(Sum Lines 115 to 117)	0.0889
27	Investment Return = Rate Base * Rate of Return		(Line 58 * Line 118)	739,962,864
Composite Income Taxes				
Income Tax Rates				
28	FIT=Federal Income Tax Rate			21.00%
29	SIT=State Income Tax Rate or Composite			9.00%
30	p = percent of federal income tax deductible for state purposes		Per State Tax Code	0.00%
31	T	$T = 1 - ((1 - SIT) * (1 - FIT)) / (1 - SIT * FIT * p) =$		28.11%
32	CIT = T / (1-T)			39.10%
33	1 / (1-T)			139.10%
ITC Adjustment				
34	Amortized Investment Tax Credit	enter negative	Attachment 5	-718,424
35	1/(1-T)		1 / (1 - Line 123)	139.10%
36	Net Plant Allocation Factor		(Line 18)	60.5354%
37	ITC Adjustment Allocated to Transmission		(Line 125 * Line 126 * Line 127)	-603,269
Deficient/Excess Deferred Taxes Amortization				
38	Amortized Deficient Deferred Taxes (Account 410.1)		(Line 128a)	0
39	Amortized Excess Deferred Taxes (Account 411.1)	enter negative	(Line 128b)	-113,703,722
40	Total		(Line 128a + Line 128b)	-113,703,722
41	1/(1-T)		1 / (1 - Line 123)	139.10%
42	Deficient/Excess Deferred Taxes Allocated to Transmission		(Line 128c * Line 128d)	-168,163,478
AFUDC Equity Permanent Difference				
43	Tax Effect of AFUDC Equity Permanent Difference		(Line 128f)	1,196,644
44	1/(1-T)		1 / (1 - Line 123)	139.10%
45	AFUDC Equity Permanent Difference Tax Adjustment		(Line 128f * Line 128g)	1,664,649
46	Income Tax Component =	$CIT = (T / (1 - T)) * Investment Return * (1 - (WCLTD/R)) =$		227,665,706
47	Total Income Taxes			70,563,511

Line #	Description	Notes	Page # & Instructions	End of Year	Transmission Related
62	TOTAL A&G Expenses			116,492,462	
63	Actual P&G Expense	(Note 7)	Company Records	33,322,615	
64	Actual P&G Expense	(Note 8)	Company Records	33,322,615	

Line #	Description	Notes	Page # & Instructions	End of Year	Transmission Related
65	Allowance Deferral - Common Expenses				
66	Regulatory Commission Exp Account 528	(Note 6 & 9)	0323,191b	10,359,963	
67	Directly Assigned A&G	(Note 6 & 9)	0323,191a	726,538	733,528

Line #	Description	Notes	Page # & Instructions	End of Year	OP&M Debit
68	Lease Expense	(Note 10 & 11)	0320,363	0	0

Line #	Description	Notes	Page # & Instructions	End of Year	Recovery Method
69	Directly Assigned A&G				
70	General Advertising Exp Account 100.1	(Note 12 & 13)	0323,191b	3,492,281	3,492,281

Line #	Description	Notes	Page # & Instructions	End of Year	Education & Outreach	Other
71	Directly Assigned A&G					
72	General Advertising Exp Account 100.1	(Note 12 & 13)	0323,191b	3,492,281		3,492,281

Line #	Description	Notes	Page # & Instructions	End of Year	Transmission Related
73	Depreciation Expense				
74	Depreciation-Transmission	(Note 14 & 15)	0323,191b	291,310,276	
75	Depreciation-Construction	(Note 14 & 15)	0323,191b	4,771,720	
76	Depreciation-Intangible	(Note 14 & 15)	0323,191b	11,298,065	
77	Transmission Depreciation Expense for Acct. 307	(Note 14 & 15)	0323,191b	1,122,363	

Line #	Description	Notes	Page # & Instructions	End of Year	Transmission Related	Non-Transmission
78	Directly Assigned A&G					
79	General Advertising Exp Account 100.1	(Note 12 & 13)	0323,191b	3,492,281		3,492,281

Line #	Description	Notes	Page # & Instructions	End of Year	Transmission Related	Non-Transmission
80	Directly Assigned A&G					
81	General Advertising Exp Account 100.1	(Note 12 & 13)	0323,191b	3,492,281		3,492,281

Line #	Description	Notes	Page # & Instructions	End of Year	Transmission Related	Non-Transmission
82	Directly Assigned A&G					
83	General Advertising Exp Account 100.1	(Note 12 & 13)	0323,191b	3,492,281		3,492,281

Line #	Description	Notes	Page # & Instructions	End of Year	Transmission Related	Non-Transmission
84	Directly Assigned A&G					
85	General Advertising Exp Account 100.1	(Note 12 & 13)	0323,191b	3,492,281		3,492,281

Line #	Description	Notes	Page # & Instructions	End of Year	Transmission Related	Non-Transmission
86	Directly Assigned A&G					
87	General Advertising Exp Account 100.1	(Note 12 & 13)	0323,191b	3,492,281		3,492,281

Line #	Description	Notes	Page # & Instructions	End of Year	Transmission Related	Non-Transmission
88	Directly Assigned A&G					
89	General Advertising Exp Account 100.1	(Note 12 & 13)	0323,191b	3,492,281		3,492,281

Line #	Description	Notes	Page # & Instructions	End of Year	Transmission Related	Non-Transmission
90	Directly Assigned A&G					
91	General Advertising Exp Account 100.1	(Note 12 & 13)	0323,191b	3,492,281		3,492,281

Line #	Description	Notes	Page # & Instructions	End of Year	Transmission Related	Non-Transmission
92	Directly Assigned A&G					
93	General Advertising Exp Account 100.1	(Note 12 & 13)	0323,191b	3,492,281		3,492,281

PS&G's real estate items shown in its general database which contains a list of the items. PS&G pays taxes on, which are billed on a quarterly basis by major classification. For items classified with 100 & 1000, however, these are billed to a separate line of property and are billed. This is the result of an error in the billing system from 1000 to 100.

**Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 6 - True-up Adjustment for Network Integration Transmission Service - December 31, 2019**

The True-Up Adjustment component of the Formula Rate for each Rate Year beginning with 2010 shall be determined as follows:

- (i) Beginning with 2009, no later than June 15 of each year PSE&G shall recalculate an adjusted Annual Transmission Revenue Requirement for the previous calendar year based on its actual costs as reflected in its Form No. 1 and its books and records for that calendar year, consistent with FERC accounting policies. 2
- (ii) PSE&G shall determine the difference between the recalculated Annual Transmission Revenue Requirement as determined in paragraph (i) above, and ATRR based on projected costs for the previous calendar year (True-Up Adjustment Before Interest).
- (iii) The True-Up Adjustment shall be determined as follows:
True-Up Adjustment equals the True-Up Adjustment Before Interest multiplied by $(1+i)^{24}$ months
Where: $i = \frac{\text{Sum of (the monthly rates for the 10 months ending October 31 of the current year and the monthly rates for the 12 months ending December 31 of the preceding year) divided by 21 months.}}{}$

Summary of Formula Rate Process Including True-Up Adjustment

Month	Year	Action
July	2008	TO populate the formula with Year 2008 estimated data
October	2008	TO populate the formula with Year 2008 estimated data
June	2009	TO populate the formula with Year 2008 actual data and calculates the 2008 True-Up Adjustment Before Interest
October	2009	TO calculate the interest to include in the 2008 True-Up Adjustment
October	2009	TO populate the formula with Year 2010 estimated data and 2008 True-Up Adjustment
June	2010	TO populate the formula with Year 2009 actual data and calculates the 2009 True-Up Adjustment Before Interest
October	2010	TO calculate the interest to include in the 2009 True-Up Adjustment
October	2010	TO populate the formula with Year 2011 estimated data and 2009 True-Up Adjustment
June	(Year)	TO populate the formula with Year - 1 actual data and calculates the Year - 1 True-Up Adjustment Before Interest
October	(Year)	TO calculate the interest to include in the Year - 1 True-Up Adjustment
October	(Year)	TO populate the formula with Year + 1 estimated data and Year - 1 True-Up Adjustment

1 No True-Up Adjustment will be included in the Annual Transmission Revenue Requirement for 2008 or 2009 since Formula Rate was not in effect for 2006 or 2007.

2 To the extent possible each input to the Formula Rate used to calculate the actual Annual Transmission Revenue Requirement included in the True-Up Adjustment either will be taken directly from the FERC Form No. 1 or will be reconcilable to the FERC Form 1 by the application of clearly identified and supported information. If the reconciliation is provided through a worksheet included in the filed Formula Rate template, the inputs to the worksheet must meet this transparency standard, and doing so will satisfy this transparency requirement for the amounts that are output from the worksheet and input to the main body of the Formula Rate.

Calendar Year Complete for Each Calendar Year beginning in 2009

A	ATRR based on actual costs included for the previous calendar year but excludes the true-up adjustment.	1,211,730,963
B	ATRR based on projected costs included for the previous calendar year but excludes the true-up adjustment.	1,185,164,918
C	Difference (A-B)	26,566,074
D	Future Value Factor $(1+i)^{24}$	1.04011
E	True-up Adjustment (C*D)	27,631,675

*Note: for the first rate year, divide this reconciliation amount by 12 and multiply by the number of months and fractional months the rate was in effect.

Where:
i = average interest rate as calculated below

Interest on Amount of Refunds or Surcharges

Month	Yr	Month
January	Year 1	
February	Year 1	
March	Year 1	
April	Year 1	
May	Year 1	0.1000%
June	Year 1	
July	Year 1	
August	Year 1	
September	Year 1	
October	Year 1	
November	Year 1	0.1200%
December	Year 1	
January	Year 2	
February	Year 2	0.1300%
March	Year 2	0.1900%
April	Year 2	0.1900%
May	Year 2	0.1800%
June	Year 2	0.1800%
July	Year 2	0.1900%
August	Year 2	0.1800%
September	Year 2	0.1800%
Average Interest Rate		0.1640%

Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2019

Estimated Transmission Enhancement Charges (Before True-Up) - 2019															
Total Projects	Branchburg (B0130)	Kittatinny (B0134)	Essex Aldene (B0145)	New Freedom Trans.(B0411)	New Freedom Loop (B0498)	Metuchen Transformer (B0161)	Branchburg-Flagtown-Somerville (B0169)	Flagtown-Somerville-Bridgewater (B0170)	Roseland Transformers (B0274)	Wave Trap Branchburg (B0172.2)	Reconductor Hudson - South Waterfront (B0813)	Reconductor South Mahwah J-3410 Circuit (B1017)	Reconductor South Mahwah K-3411 Circuit (B1018)	Branchburg 400 MVAR Capacitor (B0290)	Saddle Brook - Atheria Upgrade Cable (B0472)
490,646,817	1,637,120	664,682	7,120,888	1,808,282	2,290,328	2,206,673	1,349,529	690,206	1,806,766	2,319	812,758	1,849,162	1,919,620	7,055,589	1,318,877

Actual Transmission Enhancement Charges - 2017															
Total Projects	Branchburg (B0130)	Kittatinny (B0134)	Essex Aldene (B0145)	New Freedom Trans.(B0411)	New Freedom Loop (B0498)	Metuchen Transformer (B0161)	Branchburg-Flagtown-Somerville (B0169)	Flagtown-Somerville-Bridgewater (B0170)	Roseland Transformers (B0274)	Wave Trap Branchburg (B0172.2)	Reconductor Hudson - South Waterfront (B0813)	Reconductor South Mahwah J-3410 Circuit (B1017)	Reconductor South Mahwah K-3411 Circuit (B1018)	Branchburg 400 MVAR Capacitor (B0290)	Saddle Brook - Atheria Upgrade Cable (B0472)
696,633,835	2,199,636	884,168	9,579,691	2,428,204	3,084,762	2,973,432	1,818,367	794,917	2,433,270	3,120	1,096,384	2,495,347	2,691,411	9,526,626	1,781,001

Public Service Electric and Gas Company
 ATTACHMENT H-19A
 Attachment BA - Project Specific Estimate and Reconciliation Worksheet - December 31, 2018

Reconciliation by Project (without interest)															
Total Projects	Branchburg (B0130)	Kittatiny (B0134)	Essex Aldene (B0145)	New Freedom Trans. (B0411)	New Freedom Loop (B0498)	Meluchen Transformer (B0161)	Branchburg-Flagtown-Somerville (B0169)	Flagtown-Somerville-Bridgewater (B0170)	Roseland Transformers (B0274)	Wave Trap Branchburg (B0172.2)	Reconductor Hudson - South Waterfront (B0613)	Reconductor South Mahwah J-3410 Circuit (B1017)	Reconductor South Mahwah K-3411 Circuit (B1018)	Branchburg 400 MVAR Capacitor (B0290)	Saddle Brook - Athena Upgrade Cable (B0472)
19,367,317	22,750	11,267	107,822	30,507	39,187	18,534	23,171	19,097	23,235	39	14,896	32,165	33,459	(282,244)	23,078
	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011

True Up by Project (with interest) -2017															
Total Projects	Branchburg (B0130)	Kittatiny (B0134)	Essex Aldene (B0145)	New Freedom Trans. (B0411)	New Freedom Loop (B0498)	Meluchen Transformer (B0161)	Branchburg-Flagtown-Somerville (B0169)	Flagtown-Somerville-Bridgewater (B0170)	Roseland Transformers (B0274)	Wave Trap Branchburg (B0172.2)	Reconductor Hudson - South Waterfront (B0613)	Reconductor South Mahwah J-3410 Circuit (B1017)	Reconductor South Mahwah K-3411 Circuit (B1018)	Branchburg 400 MVAR Capacitor (B0290)	Saddle Brook - Athena Upgrade Cable (B0472)
19,104,858	23,652	11,719	112,147	31,731	45,739	19,278	24,101	19,592	24,154	41	14,861	32,455	34,843	(293,867)	24,604

Estimated Transmission Enhancement Charges (After True-Up) - 2018															
Total Projects	Branchburg (B0130)	Kittatiny (B0134)	Essex Aldene (B0145)	New Freedom Trans. (B0411)	New Freedom Loop (B0498)	Meluchen Transformer (B0161)	Branchburg-Flagtown-Somerville (B0169)	Flagtown-Somerville-Bridgewater (B0170)	Roseland Transformers (B0274)	Wave Trap Branchburg (B0172.2)	Reconductor Hudson - South Waterfront (B0613)	Reconductor South Mahwah J-3410 Circuit (B1017)	Reconductor South Mahwah K-3411 Circuit (B1018)	Branchburg 400 MVAR Capacitor (B0290)	Saddle Brook - Athena Upgrade Cable (B0472)
509,756,872	1,660,782	678,301	7,232,232	1,334,812	2,331,896	2,225,851	1,373,529	606,707	1,829,937	2,360	827,417	1,882,618	1,354,463	6,782,822	1,342,882

Public Service Electric and Gas Company
ATTACHMENT 12-18A
Attachment 12 - Project Specific Estimate and Reconciliation Worksheet - December 31, 2019



Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2019

Estimated Transmission Enhancement Charges (Before Tax-Cap) - 2018															
Branchburg-Somerville-Flagtown Reconductor (B0664 & B0665)	Somerville-Bridgewater Reconductor (B0668)	New Essex-Kearny 138 KV circuit and Kearny 138 KV bus tie (B0814)	Salem 500 KV breakers (B1410-B1415)	230KV Lawrence Switching Station Upgrade (B1228)	Branchburg-Middlesex Switch Rack (B1155)	Aldene-Springfield Rd. Conversion (B1359)	Upgrade Camden-Richmond 230KV Circuit (B1590)	Susquehanna Roseland Breakers (B0489.5-B0489.15)	Susquehanna Roseland < 500KV (B0489.4)	Susquehanna Roseland > 500KV (B0489)	Burlington - Camden 230KV Conversion (B1156)	Middleton-Gloucester-Camden (B1396-B1396.7)	North Central Reliability (West Orange Conversion) (B1154)	Northeast Grid Reliability Project (B1304.1-B1304.4)	Northeast Grid Reliability Project (B1304.5-B1304.21)
1,705,347	588,024	4,280,154	1,483,693	2,035,185	6,943,239	6,945,193	1,896,004	656,176	4,075,006	73,492,663	33,657,737	42,539,660	34,610,073	61,719,383	26,714,365

Actual Transmission Enhancement Charges - 2017															
Branchburg-Somerville-Flagtown Reconductor (B0664 & B0665)	Somerville-Bridgewater Reconductor (B0668)	New Essex-Kearny 138 KV circuit and Kearny 138 KV bus tie (B0814)	Salem 500 KV breakers (B1410-B1415)	230KV Lawrence Switching Station Upgrade (B1228)	Branchburg-Middlesex Switch Rack (B1155)	Aldene-Springfield Rd. Conversion (B1359)	Upgrade Camden-Richmond 230KV Circuit (B1590)	Susquehanna Roseland Breakers (B0489.5-B0489.15)	Susquehanna Roseland < 500KV (B0489.4)	Susquehanna Roseland > 500KV (B0489)	Burlington - Camden 230KV Conversion (B1156)	Middleton-Gloucester-Camden (B1396-B1396.7)	North Central Reliability (West Orange Conversion) (B1154)	Northeast Grid Reliability Project (B1304.1-B1304.4)	Northeast Grid Reliability Project (B1304.5-B1304.21)
2,102,728	794,193	5,754,880	2,004,944	2,761,687	8,633,708	8,393,425	1,669,965	747,840	5,487,093	98,279,224	45,436,882	67,628,494	46,773,816	83,447,728	47,372,670

Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2019

Reconciliation by Project (Without Interest)															
Branchburg-Somerville-Flagtown Reconductors (B0664 & B0665)	Somerville-Bridgewater Reconductors (B0666)	New Essex-Keamy 138 kV circuit and Keamy 138 kV bus tie (B0814)	Salem 500 kV breakers (B1410-B1415)	230kV Lawrence Switching Station Upgrade (B1228)	Branchburg-Middlesex Switch Rack (B1155)	Aldene-Springfield Rd. Conversion (B1399)	Upgrade Camden-Richmond 230kV Circuit (B1590)	Susquehanna Roseland Breakers (B0489.5-B0489.15)	Susquehanna Roseland < 500kV (B0489.4)	Susquehanna Roseland > 500kV (B0489)	Burlington - Camden 230kV Conversion (B1156)	Middletown-Gloucester-Camden (B1396-B1398.7)	North Central Reliability (West Orange Conversion) (B1154)	Northeast Grid Reliability Project (B1304.1-B1304.4)	Northeast Grid Reliability Project (B1304.5-B1304.21)
29,824	10,384	69,767	25,794	4,895	616,216	112,828	19,288	9,963	73,312	1,166,037	563,821	635,284	861,354	1,544,975	420,229
1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011

True Up by Project (with Interest) 2017															
Branchburg-Somerville-Flagtown Reconductors (B0664 & B0665)	Somerville-Bridgewater Reconductors (B0666)	New Essex-Keamy 138 kV circuit and Keamy 138 kV bus tie (B0814)	Salem 500 kV breakers (B1410-B1415)	230kV Lawrence Switching Station Upgrade (B1228)	Branchburg-Middlesex Switch Rack (B1155)	Aldene-Springfield Rd. Conversion (B1399)	Upgrade Camden-Richmond 230kV Circuit (B1590)	Susquehanna Roseland Breakers (B0489.5-B0489.15)	Susquehanna Roseland < 500kV (B0489.4)	Susquehanna Roseland > 500kV (B0489)	Burlington - Camden 230kV Conversion (B1156)	Middletown-Gloucester-Camden (B1396-B1398.7)	North Central Reliability (West Orange Conversion) (B1154)	Northeast Grid Reliability Project (B1304.1-B1304.4)	Northeast Grid Reliability Project (B1304.5-B1304.21)
31,828	10,717	72,355	26,736	4,259	841,038	117,640	20,074	10,269	76,254	1,227,370	586,437	661,265	604,683	1,586,946	437,833

Estimated Transmission Enhancement Charges (After True-Up) - 2019															
Branchburg-Somerville-Flagtown Reconductors (B0664 & B0665)	Somerville-Bridgewater Reconductors (B0666)	New Essex-Keamy 138 kV circuit and Keamy 138 kV bus tie (B0814)	Salem 500 kV breakers (B1410-B1415)	230kV Lawrence Switching Station Upgrade (B1228)	Branchburg-Middlesex Switch Rack (B1155)	Aldene-Springfield Rd. Conversion (B1399)	Upgrade Camden-Richmond 230kV Circuit (B1590)	Susquehanna Roseland Breakers (B0489.5-B0489.15)	Susquehanna Roseland < 500kV (B0489.4)	Susquehanna Roseland > 500kV (B0489)	Burlington - Camden 230kV Conversion (B1156)	Middletown-Gloucester-Camden (B1396-B1398.7)	North Central Reliability (West Orange Conversion) (B1154)	Northeast Grid Reliability Project (B1304.1-B1304.4)	Northeast Grid Reliability Project (B1304.5-B1304.21)
1,736,367	586,741	4,332,708	1,616,428	2,031,327	6,302,282	7,042,233	1,108,078	666,434	4,181,259	74,719,333	34,244,174	43,261,515	35,217,767	63,235,129	35,277,079

Public Service Electric and Gas Company
Attachment SA - Project Specific Exhibit and Recalculation Worksheet - December 31, 2019

Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2019

Estimated Transmission Enhancement Charges (Before Tax-4p) - 2019															
Convert the Bergen - Marion 138 KV path to double circuit 345 KV and associated substation upgrades (B2436.10)	Convert the Marion - Bayonne "L" 138 KV circuit to 345 KV and any associated substation upgrades (B2436.21)	Convert the Marion - Bayonne "C" 138 KV circuit to 345 KV and any associated substation upgrades (B2436.22)	Construct a new Bayway - Bayonne 345 KV circuit and any associated substation upgrades (B2436.33)	Construct a new North Ave - Bayonne 345 KV circuit and any associated substation upgrades (B2436.34)	Construct a new North Ave - Airport 345 KV circuit and any associated substation upgrades (B2436.50)	Relocate the underground portion of North Ave - Linden "T" 138 KV circuit to Bayway, convert it to 345 KV, and any associated substation upgrades (B2436.60)	Construct a new Airport - Bayway 345 KV circuit and any associated substation upgrades (B2436.70)	Relocate the overhead portion of Linden - North Ave "T" 138 KV circuit to Bayway, convert it to 345 KV, and any associated substation upgrades (B2436.81)	Convert the Bayway - Linden "Z" 138 KV circuit to 345 KV and any associated substation upgrades (B2436.83)	Convert the Bayway - Linden "W" 138 KV circuit to 345 KV and any associated substation upgrades (B2436.84)	Convert the Bayway - Linden "M" 138 KV circuit to 345 KV and any associated substation upgrades (B2436.85)	Relocate Farragut - Hudson "B" and "C" 345 KV circuits to Marion 345 KV and any associated substation upgrades (B2436.90)	Relocate the Hudson 2 generation to inject into the 345 KV at Marion and any associated substation upgrades (B2436.91)	New Bergen 345/230 KV transformer and any associated substation upgrades (B2437.10)	New Bergen 345/138 KV transformer #1 and any associated substation upgrades (B2437.11)
17,814,825	6,486,727	4,789,386	16,659,868	12,816,149	6,767,674	4,959,296	9,086,471	4,995,013	4,996,013	4,714,914	4,853,677	3,164,319	2,483,386	2,763,670	2,763,670

Actual Transmission Enhancement Charges - 2017															
Convert the Bergen - Marion 138 KV path to double circuit 345 KV and associated substation upgrades (B2436.10)	Convert the Marion - Bayonne "L" 138 KV circuit to 345 KV and any associated substation upgrades (B2436.21)	Convert the Marion - Bayonne "C" 138 KV circuit to 345 KV and any associated substation upgrades (B2436.22)	Construct a new Bayway - Bayonne 345 KV circuit and any associated substation upgrades (B2436.33)	Construct a new North Ave - Bayonne 345 KV circuit and any associated substation upgrades (B2436.34)	Construct a new North Ave - Airport 345 KV circuit and any associated substation upgrades (B2436.50)	Relocate the underground portion of North Ave - Linden "T" 138 KV circuit to Bayway, convert it to 345 KV, and any associated substation upgrades (B2436.60)	Construct a new Airport - Bayway 345 KV circuit and any associated substation upgrades (B2436.70)	Relocate the overhead portion of Linden - North Ave "T" 138 KV circuit to Bayway, convert it to 345 KV, and any associated substation upgrades (B2436.81)	Convert the Bayway - Linden "Z" 138 KV circuit to 345 KV and any associated substation upgrades (B2436.83)	Convert the Bayway - Linden "W" 138 KV circuit to 345 KV and any associated substation upgrades (B2436.84)	Convert the Bayway - Linden "M" 138 KV circuit to 345 KV and any associated substation upgrades (B2436.85)	Relocate Farragut - Hudson "B" and "C" 345 KV circuits to Marion 345 KV and any associated substation upgrades (B2436.90)	Relocate the Hudson 2 generation to inject into the 345 KV at Marion and any associated substation upgrades (B2436.91)	New Bergen 345/230 KV transformer and any associated substation upgrades (B2437.10)	New Bergen 345/138 KV transformer #1 and any associated substation upgrades (B2437.11)
23,733,009	5,196,758	3,294,965	1,228,916	-	-	1,228,916	1,226,915	2,658,611	2,658,611	3,723,878	3,723,878	3,942,807	3,294,965	3,686,670	3,686,670

Public Service Electric and Gas Company
 ATTACHMENT H-16A
 Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2019

Reconciliation by Project (without interest)															
Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10)	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33)	Construct a new North Ave - Bayonne 345 kV circuit and any associated substation upgrades (B2436.34)	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades (B2436.50)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90)	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated substation upgrades (B2436.91)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11)
414,171	1,899,258	95,416	136,575	-	-	(237,139)	136,575	750,846	750,846	596,778	596,778	96,841	3,294,555	279,951	279,551
1,0911	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011	1,04011

True Up by Project (with interest)-2017															
Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10)	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33)	Construct a new North Ave - Bayonne 345 kV circuit and any associated substation upgrades (B2436.34)	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades (B2436.50)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90)	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated substation upgrades (B2436.91)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11)
436,784	2,679,399	99,243	142,955	-	-	(246,642)	142,053	780,131	780,131	1,028,368	1,028,368	102,895	3,427,131	291,222	291,222

Estimated Transmission Enhancement Charges (After True-Up) - 2019															
Convert the Bergen - Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10)	Convert the Marion - Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21)	Convert the Marion - Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33)	Construct a new North Ave - Bayonne 345 kV circuit and any associated substation upgrades (B2436.34)	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades (B2436.50)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90)	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated substation upgrades (B2436.91)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11)
18,244,609	8,660,123	4,897,629	17,011,512	12,818,148	6,767,674	4,712,654	9,228,524	6,776,144	6,776,144	6,741,264	6,880,028	3,267,145	6,916,827	3,054,892	3,054,892

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment BA • Project Specific Estimate and Reconciliation Worksheet - December 31, 2019



Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2019

Estimated Transmission Enhancement Charges (Before Tax-Up) - 2019															
New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33)	Upgrade Eagle Point-Gloucester 230kV Circuit (B1688)	Mickleton-Gloucester 230kV Circuit (B2139)	Ridge Road 69kV Breaker Station (B1255)	Co's Corner-Lumberton 230kV Circuit (B1787)	Install Conemaugh 250MVAR Cap Bank (B0376)	Reconfigure Keamy-Loop in P2216 Ckt (B1589)	Reconfigure Brunswick Sw-New 69kV/Ckt-T (B2146)	350 MVAR Reactor Hopalong 500kV (B2702)	Convert the Bergen-Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10) (CWIP)	Convert the Marion-Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21) (CWIP)	Convert the Marion-Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22) (CWIP)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33) (CWIP)
1,602,222	1,602,199	2,128,205	1,426,633	1,172,258	1,879,878	4,352,183	3,138,615	169,117	2,289,910	15,333,762	2,302,454	0	0	0	0

Actual Transmission Enhancement Charges - 2017															
New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33)	Upgrade Eagle Point-Gloucester 230kV Circuit (B1688)	Mickleton-Gloucester 230kV Circuit (B2139)	Ridge Road 69kV Breaker Station (B1255)	Co's Corner-Lumberton 230kV Circuit (B1787)	Install Conemaugh 250MVAR Cap Bank (B0376)	Reconfigure Keamy-Loop in P2216 Ckt (B1589)	Reconfigure Brunswick Sw-New 69kV/Ckt-T (B2146)	350 MVAR Reactor Hopalong 500kV (B2702)	Convert the Bergen-Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10) (CWIP)	Convert the Marion-Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21) (CWIP)	Convert the Marion-Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22) (CWIP)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33) (CWIP)
1,227,872	1,227,163	1,684,677	0	1,666,639	2,542,966	1,692,248	4,259,625	147,691	21,564	2,476,231	0	43,169	1,723,268	828,190	11,692,332

Public Service Electric and Gas Company
 ATTACHMENT H-18A
 Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2019

Reconciliation by Project (without interest)															
New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33)	Upgrade Eagle Point-Gloucester 230kV Circuit (B1588)	Mickleton-Gloucester 230kV Circuit (B2139)	Ridge Road 69kV Breaker Station (B1255)	Cox's Corner-Lumberton 230kV Circuit (B1787)	Install Conemaugh 250MVAR Cap Bank (B0376)	Reconfigure Keamy-Loop in P2216 Ckt (B1589)	Reconfigure Brunswick Sw-New 69kV Ckt-T (B2146)	350 MVAR Reactor Hopalong 500kV (B2702)	Convert the Bergen-Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10) (CWIP)	Convert the Marion-Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21) (CWIP)	Convert the Marion-Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22) (CWIP)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33) (CWIP)
136,831	136,812	(2,215,280)	0	29,927	64,250	93,648	93,376	147,691	21,854	2,475,231	0	(476,643)	(677,456)	(267,931)	3,234,401
1,09011	1,09011	1,09011	1,09011	1,09011	1,09011	1,09011	1,09011	1,09011	1,09011	1,09011	1,09011	1,09011	1,09011	1,09011	1,09011

True Up by Project (with interest)-2017															
New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33)	Upgrade Eagle Point-Gloucester 230kV Circuit (B1588)	Mickleton-Gloucester 230kV Circuit (B2139)	Ridge Road 69kV Breaker Station (B1255)	Cox's Corner-Lumberton 230kV Circuit (B1787)	Install Conemaugh 250MVAR Cap Bank (B0376)	Reconfigure Keamy-Loop in P2216 Ckt (B1589)	Reconfigure Brunswick Sw-New 69kV Ckt-T (B2146)	350 MVAR Reactor Hopalong 500kV (B2702)	Convert the Bergen-Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10) (CWIP)	Convert the Marion-Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21) (CWIP)	Convert the Marion-Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22) (CWIP)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33) (CWIP)
142,320	142,308	(3,344,860)	0	21,767	66,827	97,405	97,120	153,616	22,419	2,874,816	0	(495,762)	(668,619)	(268,217)	3,364,797

Estimated Transmission Enhancement Charges (ARar True-Up) - 2019															
New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33)	Upgrade Eagle Point-Gloucester 230kV Circuit (B1588)	Mickleton-Gloucester 230kV Circuit (B2139)	Ridge Road 69kV Breaker Station (B1255)	Cox's Corner-Lumberton 230kV Circuit (B1787)	Install Conemaugh 250MVAR Cap Bank (B0376)	Reconfigure Keamy-Loop in P2216 Ckt (B1589)	Reconfigure Brunswick Sw-New 69kV Ckt-T (B2146)	350 MVAR Reactor Hopalong 500kV (B2702)	Convert the Bergen-Marion 138 kV path to double circuit 345 kV and associated substation upgrades (B2436.10) (CWIP)	Convert the Marion-Bayonne "L" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.21) (CWIP)	Convert the Marion-Bayonne "C" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.22) (CWIP)	Construct a new Bayway - Bayonne 345 kV circuit and any associated substation upgrades (B2436.33) (CWIP)
1,744,641	1,744,489	(1,226,446)	1,426,833	1,194,924	1,948,768	4,439,297	5,236,736	762,732	2,311,429	17,696,278	2,362,464	(495,762)	(668,619)	(268,217)	3,364,797



Revised Attachment

Public Service Electric and Gas Company
ATTACHMENT F-19A
Attachment 6A - Project Specific Estimate and Recommendation Worksheet - December 31, 2019

Public Service Electric and Gas Company
 ATTACHMENT H-10A
 Attachment 6A - Project Specific Estimate and Reconciliation Worksheet - December 31, 2019

Estimated Transmission Enhancement Charges (Before Tax-Up) - 2019															
Construct a new North Ave - Bayonne 345 kV circuit and any associated substation upgrades (B2436.34) (CWIP)	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades (B2436.50) (CWIP)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60) (CWIP)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70) (CWIP)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81) (CWIP)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83) (CWIP)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84) (CWIP)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85) (CWIP)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90) (CWIP)	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated substation upgrades (B2436.91) (CWIP)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10) (CWIP)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11) (CWIP)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20) (CWIP)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21) (CWIP)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30) (CWIP)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33) (CWIP)
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Actual Transmission Enhancement Charges - 2017															
Construct a new North Ave - Bayonne 345 kV circuit and any associated substation upgrades (B2436.34) (CWIP)	Construct a new North Ave - Airport 345 kV circuit and any associated substation upgrades (B2436.50) (CWIP)	Relocate the underground portion of North Ave - Linden "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.60) (CWIP)	Construct a new Airport - Bayway 345 kV circuit and any associated substation upgrades (B2436.70) (CWIP)	Relocate the overhead portion of Linden - North Ave "T" 138 kV circuit to Bayway, convert it to 345 kV, and any associated substation upgrades (B2436.81) (CWIP)	Convert the Bayway - Linden "Z" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.83) (CWIP)	Convert the Bayway - Linden "W" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.84) (CWIP)	Convert the Bayway - Linden "M" 138 kV circuit to 345 kV and any associated substation upgrades (B2436.85) (CWIP)	Relocate Farragut - Hudson "B" and "C" 345 kV circuits to Marion 345 kV and any associated substation upgrades (B2436.90) (CWIP)	Relocate the Hudson 2 generation to inject into the 345 kV at Marion and any associated substation upgrades (B2436.91) (CWIP)	New Bergen 345/230 kV transformer and any associated substation upgrades (B2437.10) (CWIP)	New Bergen 345/138 kV transformer #1 and any associated substation upgrades (B2437.11) (CWIP)	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2437.20) (CWIP)	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2437.21) (CWIP)	New Linden 345/230 kV transformer and any associated substation upgrades (B2437.30) (CWIP)	New Bayonne 345/69 kV transformer and any associated substation upgrades (B2437.33) (CWIP)
8,031,610	4,902,654	2,809,278	5,839,024	752,918	762,918	1,072,332	1,072,332	813,333	2,823	23,661	10,903	456,263	455,980	2,983,144	731,664

Public Service Electric and Gas Company

ATTACHMENT 14-104

Attachment 7 - Transmission Enhancement Charges Worksheet (TCO) - December 31, 2019

1	How Flows Carrying Charge			
2	Fixed Charge Rate (FCR) if not a CSAC	Formula Line		
3	A	152	Net Flows Carrying Charge without Depreciation	8.0%
4	B	150	Net Flows Carrying Charge per 100 Basis Point in RDE without Depreciation	8.0%
5	C		Line B times Line A	0.57%
6	FCR # a CSAC			
7	D	153	Net Flows Carrying Charge without Depreciation, Return, nor Income Taxes	1.33%

The FCR relating to a formula for a given year is used for that year only.
 Depreciation actual revenues reflected in a year do not change based on cost data for subsequent years.
 For FERC Order dated December 30, 2011 in Docket No. ER13-204, the ROE for the Northern Grid Reliability Projects is 11.8%, which includes a 15 basis point transmission ROE added as authorized by FERC's decision effective January 1, 2012.
 For non-feral plant lines 12, 14, 15, and 16 will be from Attachment 5 - Abandoned Transmission Projects, Line 15 & 16 the 12 month average balance from Attach 6a, and Line 15 will be number of months to be amortized in year plus one.

10	Details	Formula Line	Formulas-Endorsement (2008)		New Rates/Year 100 MW range and Extra 100 MW from (2008-10)		Edison 500 MW Transfers (2010-2015)		2016+ Transfers to Edison from Utility (2017-20)		
			Ending	Depreciation of Amortization	Revenue	Ending	Depreciation of Amortization	Revenue	Ending	Depreciation of Amortization	Revenue
11	Yes if a project under 300 DATT Schedule 12, otherwise No	Schedule 12	Yes			Yes		Yes		Yes	
12	Unpaid fee of the account	Yes	42			42		42		42	
13	Yes if the customer has paid a lumpsum payment in the amount of the investment on line 20. Otherwise No	CSAC	No			No		No		No	
14	Input the allowed increase in RDE	Increased RDE (Base Points)	0			0		0		0	
15	From line 3 above if "Yes" on line 12 and From line 7 above if "Yes" on line 13	11.60% ROE	8.0%			8.0%		8.0%		8.0%	
16	Line 14 plus Line 5 times line 15/100	FCR for This Project	8.0%			8.0%		8.0%		8.0%	
17	Service Account 101 or 108 if not yet classified - End of year balance	Investment	6,360,400			6,605,682		6,866,267		7,178,848	
18	Line 17 divided by line 12	Annual Depreciation or Amort Exp	152.151			1,089,082		377,744		317,244	
19	Months in service for depreciation expense from Year placed in Service (D if CMPS)		12.00			12.00		12.00		12.00	
20			2017			2017		2017		2017	
21		Year	Ending	Depreciation of Amortization	Revenue	Ending	Depreciation of Amortization	Revenue	Ending	Depreciation of Amortization	Revenue
22	W 11.60 % ROE	2006									
23	W Increased ROE	2006									
24	W 11.60 % ROE	2007									
25	W Increased ROE	2007									
26	W 11.60 % ROE	2008									
27	W Increased ROE	2008									
28	W 11.60 % ROE	2009									
29	W Increased ROE	2009									
30	W 11.60 % ROE	2010									
31	W Increased ROE	2010									
32	W 11.60 % ROE	2011									
33	W Increased ROE	2011									
34	W 11.60 % ROE	2012	4,404,012	57,853	422,751	22,800,865	123,058	896,857	2,640,253	8,537	73,000
35	W Increased ROE	2012	4,404,012	57,853	422,751	22,800,865	123,058	896,857	2,640,253	8,537	73,000
36	W 11.60 % ROE	2013	6,291,725	151,180	1,025,313	45,365,900	1,083,543	7,389,152	9,808,659	182,872	1,305,797
37	W Increased ROE	2013	6,291,725	151,180	1,025,313	45,365,900	1,083,543	7,389,152	9,808,659	182,872	1,305,797
38	W 11.60 % ROE	2014	6,181,232	152,152	913,777	44,747,550	1,094,148	6,607,879	15,445,872	289,093	1,725,636
39	W Increased ROE	2014	6,181,232	152,152	913,777	44,747,550	1,094,148	6,607,879	15,445,872	289,093	1,725,636
40	W 11.60 % ROE	2015	6,029,218	152,152	858,035	43,772,545	1,095,982	6,228,271	15,276,916	378,019	2,168,874
41	W Increased ROE	2015	6,029,218	152,152	858,035	43,772,545	1,095,982	6,228,271	15,276,916	378,019	2,168,874
42	W 11.60 % ROE	2016	5,877,065	152,152	824,687	42,862,254	1,096,655	5,978,067	14,869,633	378,036	2,083,027
43	W Increased ROE	2016	5,877,065	152,152	824,687	42,862,254	1,096,655	5,978,067	14,869,633	378,036	2,083,027
44	W 11.60 % ROE	2017	5,724,913	152,152	794,133	41,541,291	1,096,087	5,754,030	14,509,280	377,744	2,004,944
45	W Increased ROE	2017	5,724,913	152,152	794,133	41,541,291	1,096,087	5,754,030	14,509,280	377,744	2,004,944
46	W 11.60 % ROE	2018	5,572,751	152,152	685,500	40,444,309	1,096,067	4,966,854	14,131,308	377,744	1,730,197
47	W Increased ROE	2018	5,572,751	152,152	685,500	40,444,309	1,096,067	4,966,854	14,131,308	377,744	1,730,197
48	W 11.60 % ROE	2019	5,420,608	152,152	588,024	39,345,118	1,096,067	4,760,154	13,753,841	377,744	1,483,693
49	W Increased ROE	2019	5,420,608	152,152	588,024	39,345,118	1,096,067	4,760,154	13,753,841	377,744	1,483,693

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment H - Transmission Enhancement Charges Worksheet (100) - December 31, 2019

New Plant Carrying Charge		Formula Line		Rate						
1	Fixed Charge Rate (FCR) if not a CIAC	A	152	Net Plant Carrying Charge without Depreciation	8.04%					
2		B	159	Net Plant Carrying Charge per 100 Base Point in ROE without Depreciation	8.62%					
3		C		Line B less Line A	0.57%					
4	FCR if a CIAC	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.37%					
<p>The FCR resulting from Formula B is a gross price to be used for that year only. Thereafter actual revenue collected in a year shall be used to fund G&A for subsequent years. Per FERC Order dated December 30, 2011 in Docket No. ER12-216, the ROE for the Northeast Ohio P&B & Bly Project is 13.15%, which includes a 25 basis-point transmission ROE added as authorized by FERC to become effective January 1, 2012. For abandoned plant lines 12, 14, 15, and 18 will be from Attachment J - Abandoned Transmission Projects, Line 12 to the 12 month average balance line Rate C, and Line 13 will be number of months to be amortized in year line one.</p>										
10	Details	North Central Reliability (West Orange Conversion) (B-1155)	Northwest Ohio Reliability Project (B-1264, C-1264-D)	Southwest Ohio Reliability Project (B-1265, C-1265-D)	Convert the Bergen - Madison 528 KV path in double circuit 345 KV and associated substation operations (B-2426, C-2426)					
11	Should life of the project	Yes	Yes	Yes	Yes					
12	Obsolescence 70%	No	No	No	No					
13	Input the amount increase in ROE	0	25	25	0					
14	From line 3 above if "No" on line 12 and from line 7 above if "Yes" on line 12	8.04%	8.04%	8.04%	8.04%					
15	Line 14 plus (line 5 times line 15)/100	8.04%	8.18%	8.18%	8.04%					
16	Service Account 101 or 105 if not yet established - End of year balance	310,807,302	625,128,934	360,981,804	180,222,157					
17	Line 17 divided by line 12	8,089,888	14,883,974	4,386,943	4,291,004					
18	Months in service by depreciation expense from year placed in Service (0 if 0)	13.00	12.00	13.00	13.00					
19		2012	2013	2014	2015					
20		(Invest Yr)	Depreciation or Amortization	Revenue	Depreciation or Amortization	Revenue	Depreciation or Amortization	Revenue	Depreciation or Amortization	Revenue
21	W 11.68 % ROE	2006								
22	W Increased ROE	2006								
23	W 11.68 % ROE	2007								
24	W Increased ROE	2007								
25	W 11.68 % ROE	2008								
26	W Increased ROE	2008								
27	W 11.68 % ROE	2009								
28	W Increased ROE	2009								
29	W 11.68 % ROE	2010								
30	W Increased ROE	2010								
31	W 11.68 % ROE	2011								
32	W Increased ROE	2011								
33	W 11.68 % ROE	2012	15,441,748	30,113	220,046					
34	W Increased ROE	2012	15,441,748	30,113	220,046					
35	W 11.68 % ROE	2013	257,640,264	8,135,009	41,029,035	23,466,022	86,647	592,253		
36	W Increased ROE	2013	257,640,264	8,135,009	41,029,035	23,466,022	86,647	599,801		
37	W 11.68 % ROE	2014	360,873,484	7,742,354	47,135,528	274,113,325	2,382,627	14,708,781		
38	W Increased ROE	2014	360,873,484	7,742,354	47,135,528	274,113,325	2,382,627	14,694,013		
39	W 11.68 % ROE	2015	355,885,256	8,777,821	50,379,637	433,581,024	7,832,675	46,266,391		
40	W Increased ROE	2015	355,885,256	8,777,821	50,379,637	433,581,024	7,832,675	46,859,023		
41	W 11.68 % ROE	2016	347,072,892	8,805,472	48,529,997	615,905,487	12,864,341	73,330,415	302,027,464	8,381,606
42	W Increased ROE	2016	347,072,892	8,805,472	48,529,997	615,905,487	12,864,341	74,235,857	302,027,464	8,381,606
43	W 11.68 % ROE	2017	338,516,483	8,809,699	46,773,815	602,065,287	14,885,514	82,402,233	342,609,995	8,356,943
44	W Increased ROE	2017	338,516,483	8,809,699	46,773,815	602,065,287	14,885,514	83,447,128	342,609,995	8,356,943
45	W 11.68 % ROE	2018	328,702,206	8,809,699	46,364,207	587,359,389	14,880,244	71,104,128	0	0
46	W Increased ROE	2018	328,702,206	8,809,699	46,364,207	587,359,389	14,880,244	71,935,962	0	0
47	W 11.68 % ROE	2019	320,697,093	8,809,699	34,613,073	572,224,877	14,883,974	60,896,647	334,253,053	8,356,943
48	W Increased ROE	2019	320,697,093	8,809,699	34,613,073	572,224,877	14,883,974	61,718,183	334,253,053	8,356,943

Public Service Electric and Gas Company
 ATTACHMENT 12-10A
 Attachment 7 - Transmission Enhancement Charges Worksheet (TCE) - December 31, 2019

1	Net Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if it met a CIAC	Formula Line		
3	A	152	Net Plant Carrying Charge without Depreciation	8.0%
4	B	150	Net Plant Carrying Charge per 100 Base Plant in RDE without Depreciation	8.0%
5	C		Line 0 less Line A	0.5%
6	FOR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, and Income Taxes	1.3%

The FCR resulting from Formula B is given per 100 base plant per year.
 This line actual recovery reflects the year in which the asset was installed and subsequent years.
 For FCR Data used December 31, 2019 in Exhibit 6, FCR-10A, the ROE for the Westport Old Reliability Project is 11.8%, which includes a 22 independent transmission RDE added as authorized by FERC to become effective January 1, 2017. For abandoned plant lines 12, 14, 15, and 18 will be from Attachment 8 - Abandoned Transmission Projects, Line 17 is the 15 month average balance line Attach 8, and Line 19 will be number of months to be amortized in year plus one.

Line	Details	Formula Line	Convert the Rayway - Linden "M" 138 KV circuit to 345 KV and any associated substation upgrades (874M\$)			Convert the Rayway - Linden "N" 138 KV circuit to 345 KV and any associated substation upgrades (874M\$)			Convert the Rayway - Linden "O" 138 KV circuit to 345 KV and any associated substation upgrades (874M\$)			Relocate Patuxent - Madison "B" and "C" 345 KV circuits to Marion 345 KV and any associated substation upgrades (874M\$)		
			Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
10	"Yes" if project under FERC DACT Schedule 12, otherwise "No"	Schedule 12 (Yes or No)	Yes			Yes			Yes			Yes		
11	Qualifies for the project	Yes				Yes			Yes			Yes		
12	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 25, otherwise "No"	CIAC (Yes or No)	No			No			No			No		
13	Input the allowed increase in ROE	Increased ROE (Basic Points)	0			0			0			0		
14	From line 3 show if "No" on line 12 and from line 7 above if "Yes" on line 13	11.8% ROE	8.0%			8.0%			8.0%			8.0%		
15	Line 14 plus line 5 times line 15/100	FCR for This Project	8.0%			8.0%			8.0%			8.0%		
16	Service Account 10% or 10% if not yet classified - End of year balance	Investment	48,311,440			48,311,440			48,311,440			48,311,440		
17	Line 17 divided by line 12	Annual Depreciation or Amort. Exp.	1,988,520			1,988,520			1,988,520			1,988,520		
18	Months in service for depreciation expense from Year placed in Service (0 if 0/0)		13.00			13.00			13.00			13.00		
19			25.9			25.9			25.9			25.9		
20														
21														
22	W 11.8% ROE	2006												
23	W Increased ROE	2006												
24	W 11.8% ROE	2007												
25	W Increased ROE	2007												
26	W 11.8% ROE	2008												
27	W Increased ROE	2008												
28	W 11.8% ROE	2009												
29	W Increased ROE	2009												
30	W 11.8% ROE	2010												
31	W Increased ROE	2010												
32	W 11.8% ROE	2011												
33	W Increased ROE	2011												
34	W 11.8% ROE	2012												
35	W Increased ROE	2012												
36	W 11.8% ROE	2013												
37	W Increased ROE	2013												
38	W 11.8% ROE	2014												
39	W Increased ROE	2014												
40	W 11.8% ROE	2015	225,037	412	2,441	225,037	412	2,441	225,037	412	2,441	225,037	412	2,441
41	W Increased ROE	2015	225,037	412	2,441	225,037	412	2,441	225,037	412	2,441	225,037	412	2,441
42	W 11.8% ROE	2016	723,468	12,273	71,227	723,468	12,273	71,227	723,468	12,273	71,227	723,468	12,273	71,227
43	W Increased ROE	2016	723,468	12,273	71,227	723,468	12,273	71,227	723,468	12,273	71,227	723,468	12,273	71,227
44	W 11.8% ROE	2017	31,250,205	465,743	3,653,611	31,250,205	465,743	3,653,611	31,250,205	465,743	3,653,611	31,250,205	465,743	3,653,611
45	W Increased ROE	2017	31,250,205	465,743	3,653,611	31,250,205	465,743	3,653,611	31,250,205	465,743	3,653,611	31,250,205	465,743	3,653,611
46	W 11.8% ROE	2018	45,260,492	1,055,752	5,268,819	44,735,581	1,073,403	5,340,569	44,735,581	1,073,403	5,340,569	44,735,581	1,073,403	5,340,569
47	W Increased ROE	2018	45,260,492	1,055,752	5,268,819	44,735,581	1,073,403	5,340,569	44,735,581	1,073,403	5,340,569	44,735,581	1,073,403	5,340,569
48	W 11.8% ROE	2019	47,577,259	1,150,320	4,995,013	44,843,021	1,109,781	4,714,914	45,368,719	1,109,081	4,833,677	45,900,334	1,108,334	4,952,339
49	W Increased ROE	2019	47,577,259	1,150,320	4,995,013	44,843,021	1,109,781	4,714,914	45,368,719	1,109,081	4,833,677	45,900,334	1,108,334	4,952,339

Public Service Electric and Gas Company
 ATTACHMENT 16-10A
 Attachment 7 - Transmission Enhancements Charge Worksheet (TREC) - December 31, 2019

1	New Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if not a CIAC	Formula Line		
3	A	152	Net Plant Carrying Charge without Depreciation	8.04%
4	B	159	Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation	8.82%
5	C		Line B less Line A	0.78%
6	FCR if a CIAC			
7	D	153	Net Plant Carrying Charge without Depreciation, Return, for Reserve Terms	3.32%

The FCR resulting from Formula B is a 1-year rate and is used for that year only. Therefore actual revenues collected in 2 year do not change based on cost data for subsequent years. Per FERC Order dated December 30, 2011 in Docket No. ER12-2018, the ROE for the Market and Grid Reliability Project is 11.8%, which includes a 1.5% transmission ROE added as authorized by FERC in its order effective January 1, 2012. For alternative plant lines 12, 16, 19, and 20 will be from the Market & Grid Reliability Project. Line 17 is the 12 month average balance less items 16, and Line 19 will be number of months to be amortized in year plus one.

10	Details	Relocate the Hudson 3 generation to inject into the 343 kV at Marlet and any associated substation (02256,37)			New Bergen 345/230 kV transformers and any associated substation (02457,10)			New Bergen 345/138 kV transformer #1 and any associated substation (02457,11)			New Dayway 345/138 kV transformer #1 and any associated substation (02457,20)			
		Yes or No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
11	Schedule 12 Use of the contract	(Yes or No)	43	43	43	43	43	43	43	43	43	43		
12	Use of the contract	(Yes or No)	43	43	43	43	43	43	43	43	43	43		
13	FCR for the Project	(Yes or No)	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%	8.0%		
14	Investment		24,984,113	27,828,479	27,828,479	27,828,479	27,828,479	27,828,479	27,828,479	27,828,479	27,828,479	27,828,479		
15	Annual Depreciation of Asset Exp		984,838	984,838	984,838	984,838	984,838	984,838	984,838	984,838	984,838	984,838		
16	Line 17 divided by line 12		12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00		
17	Line 17 divided by line 12		20.16	20.16	20.16	20.16	20.16	20.16	20.16	20.16	20.16	20.16		
18	Line 17 divided by line 12		20.16	20.16	20.16	20.16	20.16	20.16	20.16	20.16	20.16	20.16		
19	Line 17 divided by line 12		20.16	20.16	20.16	20.16	20.16	20.16	20.16	20.16	20.16	20.16		
20	Line 17 divided by line 12		20.16	20.16	20.16	20.16	20.16	20.16	20.16	20.16	20.16	20.16		
21	W 11.68 % ROE	2006												
22	W Increased ROE	2006												
23	W 11.68 % ROE	2007												
24	W Increased ROE	2007												
25	W 11.68 % ROE	2008												
26	W Increased ROE	2008												
27	W 11.68 % ROE	2009												
28	W Increased ROE	2009												
29	W 11.68 % ROE	2010												
30	W Increased ROE	2010												
31	W 11.68 % ROE	2011												
32	W Increased ROE	2011												
33	W 11.68 % ROE	2012												
34	W Increased ROE	2012												
35	W 11.68 % ROE	2013												
36	W Increased ROE	2013												
37	W 11.68 % ROE	2014												
38	W Increased ROE	2014												
39	W 11.68 % ROE	2015												
40	W Increased ROE	2015												
41	W 11.68 % ROE	2016	23,948,835	322,803	1,874,846	27,523,727	407,054	2,363,328	27,523,727	407,054	2,363,328	225,037	412	2,441
42	W Increased ROE	2016	23,948,835	322,803	1,874,846	27,523,727	407,054	2,363,328	27,523,727	407,054	2,363,328	349,823	4,465	29,869
43	W 11.68 % ROE	2017	24,558,823	563,272	3,294,955	27,091,682	653,428	3,685,670	27,091,682	653,428	3,685,670	14,750,891	214,966	1,227,172
44	W Increased ROE	2017	24,558,823	563,272	3,294,955	27,091,682	653,428	3,685,670	27,091,682	653,428	3,685,670	14,750,891	214,966	1,227,172
45	W 11.68 % ROE	2018	24,490,096	590,341	2,932,429	25,892,041	638,561	3,107,961	25,892,041	638,561	3,107,961	15,376,297	359,378	1,835,628
46	W Increased ROE	2018	24,490,096	590,341	2,932,429	25,892,041	638,561	3,107,961	25,892,041	638,561	3,107,961	15,376,297	359,378	1,835,628
47	W 11.68 % ROE	2019	23,486,587	584,836	2,483,396	26,129,585	682,586	2,763,670	26,129,585	682,586	2,763,670	15,238,900	376,860	1,602,222
48	W Increased ROE	2019	23,486,587	584,836	2,483,396	26,129,585	682,586	2,763,670	26,129,585	682,586	2,763,670	15,238,900	376,860	1,602,222

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 7 - Transmission Enhancement Classes Worksheet (TREC) - Decem Oct 31, 2019

New Plant Carrying Charge		Formula Line		Net Plant Carrying Charge without Depreciation		Net Plant Carrying Charge per 100 Basis Point in ROE without Depreciation		Line B (Line A)	
1	Fixed Charge Rate (FCR) If	A	152	8.0%					
2	If not a CIAC	B	150	8.0%					
3		C		8.5%					
4	FCR if a CIAC	D	153	1.3%					
5									
6									
7									
8									
9									

The FCR resulting from Formula B is a given year to year rate for that year only. Thereafter actual revenues collected in a year do not change based on cost data for subsequent years. No FERC Order dated December 30, 2011 in Docket No. ER13-295, the ROE for the North and Grid Reliability Project is 11.3%, which includes a 12 3rd-party transmission ROE added as authorized by FERC to become effective January 1, 2012. The aforementioned lines 12, 14, 15, and 18 will be from Attachment B - Additional Transmission Projects. Line 17 is the 12 month average balance from Attach 14, and line 18 will be number of months to be amortized by year plus one.

10	Details	Mission 2 (Greater 220KV Circuit (B 172))	Relay Road (New 220KV Busbar (B 172))	Conk Corridor (Greater 220KV Circuit (B 172))	Seawater Switch 220KV Converter (B 227B)
11	Yes if a project under PJM GATT Schedule 12, otherwise No	Yes	Yes	Yes	Yes
12	Should be of the project	42	42	42	42
13	Yes if the customer has paid a lumpsum payment in the amount of the investment on line 26, otherwise No	No	No	No	No
14	Input the allowed increase in ROE	0	0	0	0
15	From line 3 above if "No" on line 12 and from line 1 above if otherwise "No"	8.0%	8.0%	8.0%	8.0%
16	Yes on line 13	8.0%	8.0%	8.0%	8.0%
17	Line 14 plus (line 5 times line 15) / 100	8.0%	8.0%	8.0%	8.0%
18	Service Account 101 or 100 if not yet classified - End of year balance	18,279,807	42,781,888	32,328,840	0
19	Line 17 divided by line 12	191	200	200	200
20	Months in service for depreciation expense from Year placed in Service (B of CIAC)	2011	2011	2011	2011
21		Ending	Ending	Ending	Ending
22	W 11.50 % ROE	18,280,301	42,781,888	32,328,840	0
23	W Increased ROE	18,280,301	42,781,888	32,328,840	0
24	W 11.50 % ROE	19,038,119	458,839	34,266,749	782,551
25	W Increased ROE	19,038,119	458,839	34,266,749	782,551
26	W 11.50 % ROE	19,586,659	458,892	35,858,124	783,146
27	W Increased ROE	19,586,659	458,892	35,858,124	783,146
28	W 11.50 % ROE	18,128,720	458,872	34,366,749	782,551
29	W Increased ROE	18,128,720	458,872	34,366,749	782,551
30	W 11.50 % ROE	17,670,135	459,021	33,918,617	782,610
31	W Increased ROE	17,670,135	459,021	33,918,617	782,610
32	W 11.50 % ROE	18,280,301	232,128	33,918,617	782,610
33	W Increased ROE	18,280,301	232,128	33,918,617	782,610
34	W 11.50 % ROE	19,038,119	458,839	34,266,749	782,551
35	W Increased ROE	19,038,119	458,839	34,266,749	782,551
36	W 11.50 % ROE	19,586,659	458,892	35,858,124	783,146
37	W Increased ROE	19,586,659	458,892	35,858,124	783,146
38	W 11.50 % ROE	18,128,720	458,872	34,366,749	782,551
39	W Increased ROE	18,128,720	458,872	34,366,749	782,551
40	W 11.50 % ROE	17,670,135	459,021	33,918,617	782,610
41	W Increased ROE	17,670,135	459,021	33,918,617	782,610
42	W 11.50 % ROE	18,280,301	232,128	33,918,617	782,610
43	W Increased ROE	18,280,301	232,128	33,918,617	782,610
44	W 11.50 % ROE	19,038,119	458,839	34,266,749	782,551
45	W Increased ROE	19,038,119	458,839	34,266,749	782,551
46	W 11.50 % ROE	19,586,659	458,892	35,858,124	783,146
47	W Increased ROE	19,586,659	458,892	35,858,124	783,146
48	W 11.50 % ROE	18,128,720	458,872	34,366,749	782,551
49	W Increased ROE	18,128,720	458,872	34,366,749	782,551
50	W 11.50 % ROE	17,670,135	459,021	33,918,617	782,610
51	W Increased ROE	17,670,135	459,021	33,918,617	782,610

Public Service Energy and Gas Company
 Attachment 1 - Transmission Enhancement Change Worksheet (TEC) - December 31, 2018

Formal Line
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Formal Line
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Formal Line
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Formal Line
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Item	Description	Formal Line	Formal Line	Midwest Generation Company (MGC) (1/1/04 to 12/31/18)		Midwest Generation Company (MGC) (1/1/04 to 12/31/18)		Midwest Generation Company (MGC) (1/1/04 to 12/31/18)		Midwest Generation Company (MGC) (1/1/04 to 12/31/18)		Midwest Generation Company (MGC) (1/1/04 to 12/31/18)	
				Yes/No	Yes/No	Ending	Depreciation or Amortization	Ending	Depreciation or Amortization	Ending	Depreciation or Amortization	Ending	Depreciation or Amortization
10	W 11.05 % ROE	2006	2006	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600
11	W 11.05 % ROE	2007	2007	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600
12	W 11.05 % ROE	2008	2008	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600
13	W 11.05 % ROE	2009	2009	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600
14	W 11.05 % ROE	2010	2010	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600
15	W 11.05 % ROE	2011	2011	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600
16	W 11.05 % ROE	2012	2012	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600
17	W 11.05 % ROE	2013	2013	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600
18	W 11.05 % ROE	2014	2014	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600
19	W 11.05 % ROE	2015	2015	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600
20	W 11.05 % ROE	2016	2016	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600
21	W 11.05 % ROE	2017	2017	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600
22	W 11.05 % ROE	2018	2018	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600
23	W 11.05 % ROE	2019	2019	24,600	24,600	22,089,378	1,874,440	24,600	24,600	22,089,378	1,874,440	24,600	24,600

Public Service Electric and Gas Company
 ATTACHMENT H-16A
 Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2019

1 New Plant Carrying Charge
 2 Fixed Charge Rate (FCR) if
 3 if not a CIAC
 4 A
 5 B
 6 C
 7 FCR if a CIAC
 8 D

Formula Line	Description	Rate
102	Net Plant Carrying Charge without Depreciation	8.04%
109	Net Plant Carrying Charge per 100 Base Point in ROR without Depreciation	8.04%
	Line D less Line A	0.00%
103	Net Plant Carrying Charge without Depreciation, Return, and Income Taxes	1.33%

The FCR resulting from Formula B in a given year is used for that year only.
 Therefore actual increases reflected in a year do not change based on cost data for subsequent years.
 Per FERC Order dated December 28, 2011 in Docket No. ER11-216, the ROR for the Midwest Grid Reliability Project is 11.54%, which includes a 25 basis-point transmission ROR, added as authorized by FERC in its order effective January 1, 2012. For abandoned plant items 12, 14, 15, and 17, use the abandoned transmission projects, Line 17 to be the 11 month average value less Return, R, and Line 15 will be number of months to be amortized in year per year.

Line	Description	Northeast One Reliability Project (B130AL-B130L21) (CIAC)				Convert the Bergen - Marion 138 KV path to double circuit 345 KV and associated substation upgrades 10/23/16 (CIAC)				Convert the Marion - Bayonne "L" 138 KV circuit to 345 KV and any associated substation upgrades (B343L21) (CIAC)				Convert the Marion - Bayonne "C" 138 KV circuit to 345 KV and any associated substation upgrades (B343L22) (CIAC)				
		Invest. Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue				
10	Details																	
11	Schedule 12	(Yes or No)	Yes			Yes			Yes			Yes						
12	Life		42			42			42			42						
13	CIAC	(Yes or No)	No			No			No			No						
14	Increased ROE (Base Point)		25			0			0			0						
15	ROE		8.04%			8.04%			8.04%			8.04%						
16	FCR for This Project		8.18%			8.04%			8.04%			8.04%						
17	Investment		0			0			0			0						
18	Annual Depreciation or Amort Exp		0			0			0			0						
19	Revenue																	
20	W 11.68 % ROE	2006																
21	W Increased ROE	2006																
22	W 11.68 % ROE	2007																
23	W Increased ROE	2007																
24	W 11.68 % ROE	2008																
25	W Increased ROE	2008																
26	W 11.68 % ROE	2009																
27	W Increased ROE	2009																
28	W 11.68 % ROE	2010																
29	W Increased ROE	2010																
30	W 11.68 % ROE	2011																
31	W Increased ROE	2011																
32	W 11.68 % ROE	2012		3,537,185		457,198												
33	W Increased ROE	2012		3,537,185		462,512												
34	W 11.68 % ROE	2013		18,652,410		1,571,531												
35	W Increased ROE	2013		18,052,410		1,848,510												
36	W 11.68 % ROE	2014		33,293,621		3,699,551		9,495,512	391,343	1,589,541	61,526	1,531,032						
37	W Increased ROE	2014		33,293,621		3,722,145		9,495,512	391,343	1,589,541	61,526	1,531,032						
38	W 11.68 % ROE	2015		31,157,349		2,202,742		79,633,944	3,816,309	14,261,935	836,684	14,081,213						
39	W Increased ROE	2015		31,157,349		2,306,445		79,633,944	3,816,309	14,261,935	836,684	14,081,213						
40	W 11.68 % ROE	2016		35,334,506		4,043,459		518,235	5,126,158	11,570,865	657,240	2,626,598						
41	W Increased ROE	2016		35,334,506		4,104,014		518,235	5,126,158	11,570,865	657,240	2,626,598						
42	W 11.68 % ROE	2017		0		0		261,839	43,156	20,566,179	1,723,268	14,566,795						
43	W Increased ROE	2017		0		0		261,839	43,156	20,566,179	1,723,268	14,566,795						
44	W 11.68 % ROE	2018		0		0		327,500	31,344	3,373,416	372,857	4,366,775						
45	W Increased ROE	2018		0		0		327,500	31,344	3,373,416	372,857	4,366,775						
46	W 11.68 % ROE	2019		0		0		0	0	0	0	0						
47	W Increased ROE	2019		0		0		0	0	0	0	0						

Public Service Electric and Gas Company
 ATTACHMENT H-108
 Attachment 7 - Transmission Enhancement Charges Worksheet (TEC) - December 31, 2019

1	New Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if			
3	if not a CIAC	Formula Line		
4	A	152	Net Plant Carrying Charge without Depreciation	8.04%
5	B	156	Net Plant Carrying Charge per 100 Base Plant in ROE without Depreciation	8.02%
6	C		Line B less Line A	0.02%
7	FCR if a CIAC			
8	D	153	Net Plant Carrying Charge without Depreciation, Return, nor Income Taxes	1.37%

The FCR resulting from Formula in a given year is used for that year only.
 Therefore actual revenues collected in a year do not change based on 1 year data for subsequent years.
 Per PERC Order dated December 30, 2011 in Docket No. ER13-294, the ROE for the Northeast Grid Reliability Project is 11.87%, which is higher than the 11.68% Transmission ROE as authorized by PERC in its order effective January 1, 2013.
 For abandoned plant lines 13, 14, 15, and 18 will be from Attachment 8 - Abandoned Transmission Projects, Line 12 is the 12 month average balance that Attach 7A, and Line 19 will be number of months to be amortized in year plus one.

10	Details	New Bergen 345/230 kV transformer #1 and any associated substation upgrades (B2417, B211, C109)PM	New Bayway 345/138 kV transformer #1 and any associated substation upgrades (B2417, B211, C109)PM	New Bayway 345/138 kV transformer #2 and any associated substation upgrades (B2417, B211, C109)PM	New Linden 345/230 kV transformer and any associated substation upgrades (B2417, B211, C109)PM		
						Yes	Yes
11	"Yes" if project under PJM DATT Schedule 12, otherwise "No"	(Yes or No)	Yes	Yes	Yes		
12	Equal life of the asset	(Yes or No)	42	42	42		
13	"Yes" if the customer has paid a lumpsum payment in the amount of the investment on line 20	(Yes or No)	No	No	No		
14	Difference "No" from the allowed increase in ROE	(Yes or No)	0	0	0		
15	From line 3, adjust if "No" on line 13 and then line 3 above it	(Yes or No)	8.04%	8.04%	8.04%		
16	11.87% ROE	(Yes or No)	8.04%	8.04%	8.04%		
17	Line 14 plus (line 5 times line 15) if 0	(Yes or No)	8.04%	8.04%	8.04%		
18	Service Account 101 or 105 if not per Classified - End of year balance	(Yes or No)	0	0	0		
19	Investment	(Yes or No)	0	0	0		
20	Annual Depreciation or Amort. Exp	(Yes or No)	0	0	0		
21	Line 17 divided by line 12	(Yes or No)	0	0	0		
22	Months in service for depreciation purposes from Year placed in Service (B R CWR)	(Yes or No)	0	0	0		
23	Invest Yr	Ending	Depreciation or Amortization	Revenue	Ending	Depreciation or Amortization	Revenue
24	W 11.68 % ROE	2008					
25	W Increased ROE	2008					
26	W 11.68 % ROE	2007					
27	W Increased ROE	2007					
28	W 11.68 % ROE	2006					
29	W Increased ROE	2006					
30	W 11.68 % ROE	2005					
31	W Increased ROE	2005					
32	W 11.68 % ROE	2004					
33	W Increased ROE	2004					
34	W 11.68 % ROE	2003					
35	W Increased ROE	2003					
36	W 11.68 % ROE	2002					
37	W Increased ROE	2002					
38	W 11.68 % ROE	2001					
39	W Increased ROE	2001					
40	W 11.68 % ROE	2000					
41	W Increased ROE	2000					
42	W 11.68 % ROE	2009					
43	W Increased ROE	2009					
44	W 11.68 % ROE	2010					
45	W Increased ROE	2010					
46	W 11.68 % ROE	2011					
47	W Increased ROE	2011					
48	W 11.68 % ROE	2012					
49	W Increased ROE	2012					
50	W 11.68 % ROE	2013					
51	W Increased ROE	2013					
52	W 11.68 % ROE	2014	5,002,105	223,171	123,509	4,946	124,051
53	W Increased ROE	2014	5,002,105	223,171	123,509	4,946	124,051
54	W 11.68 % ROE	2015	21,058,511	1,530,122	2,601,853	146,781	2,602,395
55	W Increased ROE	2015	21,058,511	1,530,122	2,601,853	146,781	2,602,395
56	W 11.68 % ROE	2016	66,330	915,266	9,752,687	597,380	9,750,168
57	W Increased ROE	2016	66,330	915,266	9,752,687	597,380	9,750,168
58	W 11.68 % ROE	2017	66,330	10,803	10,559	8,039	455,980
59	W Increased ROE	2017	66,330	10,803	10,559	8,039	455,980
60	W 11.68 % ROE	2018	352,678	33,744	7,678	735	7,678
61	W Increased ROE	2018	352,678	33,744	7,678	735	7,678
62	W 11.68 % ROE	2019	0	0	0	0	0
63	W Increased ROE	2019	0	0	0	0	0
64	W 11.68 % ROE	2019	0	0	0	0	0
65	W Increased ROE	2019	0	0	0	0	0

Public Service Electric and Gas Company
 ATTACHMENT 12-02A
 Attachment 7 - Transmission Enhancements Charge Worksheet (TEC) - December 31, 2019

1	New Plant Carrying Charge			
2	Fixed Charge Rate (FCR) if Invest in CAC			
3	A	Formula Line		
4	B	152	Net Plant Carrying Charge without Depreciation	8.04%
5	C	100	Net Plant Carrying Charge per 100 Base Plant in ROE without Depreciation	8.02%
6	FCR If a CAC		Line 9 less Line A	0.02%
7	D	153	Net Plant Carrying Charge without Depreciation, Return, and Income Taxes	1.20%

The FCR (which from Formula line 3 plus year is used for that year only).
 There are actual values reported in a year do not change based on cost data for subsequent years.
 Per FERC Order dated December 18, 2014 in Docket No. E913235, the ROE for the Northeast Grid Reliability Project is 11.8%, which includes a 2% basepoint transmission ROE added as authorized by FERC in its order effective January 1, 2015.
 For all other grid lines 12, 14, 16, and 18 will be based on Attachment 5 - Abandonment Transmission Projects, Line 17 for the 13-month average balance from Attachment 3, and Line 19 will be number of months to be amortized in year plus one.

10	Details	Invest Yr	Ending	Depreciation or Amortization	Revenue	Total	Revenue Charged	Revenue Credit
11	Schedule 12 (Yes or No)	2006			\$ 4,652,471	\$ 4,652,471	\$ 4,652,471	\$ -
12	Let (Yes or No)	2007			\$ 29,476,571	\$ 29,476,571	\$ 29,476,571	\$ -
13	CAC (Yes or No)	2008			\$ 32,346,365	\$ 32,346,365	\$ 32,346,365	\$ 30,261
14	Increased ROE (Base Point)	2009			\$ 51,558,883	\$ 51,558,883	\$ 51,558,883	\$ 232,275
15	11.80% ROE	2010			\$ 62,015,568	\$ 62,015,568	\$ 62,015,568	\$ 666,536
16	FCR for This Project	2011			\$ 78,438,322	\$ 78,438,322	\$ 78,438,322	\$ -
17	Investment	2012			\$ 129,728,818	\$ 129,728,818	\$ 129,728,818	\$ 1,385,586
18	Annual Depreciation or Amort Exp	2013			\$ 131,858,773	\$ 131,858,773	\$ 131,858,773	\$ 2,130,155
19	Months in service for depreciation purposes from Year placed in Service (D X CAC)	2014	133,460	5,877	\$ 342,877,142	\$ 342,877,142	\$ 342,877,142	\$ 4,608,285
20		2015	133,460	5,877	\$ 349,823,024	\$ 349,823,024	\$ 349,823,024	\$ 6,845,683
21		2016	258,129	20,804	\$ 431,187,213	\$ 431,187,213	\$ 431,187,213	\$ 7,503,754
22		2017	2,173,541	157,809	\$ 558,001,204	\$ 558,001,204	\$ 558,001,204	\$ 8,079,655
23		2018	12,011,768	731,964	\$ 578,782,083	\$ 578,782,083	\$ 578,782,083	\$ 7,853,742
24		2019	1,914,773	163,255	\$ 506,060,336	\$ 506,060,336	\$ 506,060,336	\$ 5,789,354
25		2019	0	0	\$ 454,441,835	\$ 454,441,835	\$ 454,441,835	\$ 6,204,282

Public Service Electric and Gas Company
ATTACHMENT H-10A
Attachment 8 - Depreciation Rates

<u>Plant Type</u>	<u>PSE&G</u>
Transmission	2.40
Distribution	
High Voltage Distribution	2.49
Meters	2.49
Line Transformers	2.49
All Other Distribution	2.49
General & Common	
Structures and Improvements	1.40
Office Furniture	5.00
Office Equipment	25.00
Computer Equipment	14.29
Personal Computers	33.33
Store Equipment	14.29
Tools, Shop, Garage and Other Tangible Equipment	14.29
Laboratory Equipment	20.00
Communications Equipment	10.00
Miscellaneous Equipment	14.29

Public Service Electric and Gas Company
 Projected Costs of Plant In Forecasted Rate Base and In-Service Dates
 12 Months Ended December 31, 2019

Required Transmission Enhancements

Upgrade ID	RTEP Baseline Project Description	Estimated/Actual Project Cost (thru 2019) *	Anticipated/Actual In-Service Date *
b0130	Replace all derated Branchburg 500/230 kv transformers	\$ 20,645,602	Jan-06
b0134	Reconductor Kittatinny - Newtown 230 kv with 1690 ACSS	\$ 8,069,022	Aug-07
b0145	Build new Essex - Aldene 230 kv cable connected through phase angle regulator at Essex	\$ 86,467,721	Aug-07
b0411	Install 4th 500/230 kv transformer at New Freedom	\$ 22,188,863	May-09
b0498	Loop the 5021 circuit into New Freedom 500 kv substation	\$ 27,005,248	May-09
b0161	Install 230-138kv transformer at Meluchen substation	\$ 25,654,456	Nov-08
b0169	Build a new 230 kv section from Branchburg - Flagtown and move the Flagtown - Somerville 230 kv circuit to the new section	\$ 15,731,554	May-08
b0170	Reconductor the Flagtown-Somerville-Bridgewater 230 kv circuit with 1590 ACSS	\$ 6,361,495	May-09
b0172.2	Replace wave trap at Branchburg 500kv substation	\$ 27,988	Feb-07
b0813	Reconductor Hudson - South Waterfront 230kv circuit	\$ 9,158,918	May-12
b1017	Reconductor South Mahwah 345 kv J-3410 Circuit	\$ 20,626,991	Dec-12
b1018	Reconductor South Mahwah 345 kv K-3411 Circuit	\$ 21,170,273	May-11
b0280	Branchburg 400 MVAR Capacitor	\$ 77,352,830	Nov-10
b0472	Saddle Brook - Athenia Upgrade Cable	\$ 14,404,842	Nov-08
b0654-b0666	Branchburg-Somerville-Flagtown Reconductor	\$ 18,664,931	Apr-12
b0888	Somerville -Bridgewater Reconductor	\$ 6,390,403	Apr-12
b0814	New Essex-Kearny 138 kv circuit and Kearny 138 kv bus tie	\$ 46,035,637	Dec-10
b1410-b1415	Replace Salem 500 kv breakers	\$ 15,865,267	Oct-12
b1228	230kv Lawrence Switching Station Upgrade	\$ 21,736,918	May-11
b1155	Branchburg-Middlesex Switch Rack	\$ 62,938,142	Dec-11
b1399	Aldene-Springfield Rd. Conversion	\$ 72,376,948	Dec-12
b1590	Upgrade Camden-Richmond 230kv Circuit	\$ 11,276,183	Apr-13
b1588	Upgrade EaglePoint-Gloucester 230kv Circuit	\$ 12,081,133	May-11
b2139	Build Middleton-Gloucester Corridor Ultimate Design	\$ 19,278,867	Dec-13
b1255	Ridge Road 69kv Breaker Station	\$ 42,781,696	Jun-16
b1787	New Cox's Corner-Lumberton 230kv Circuit	\$ 32,029,640	Nov-13
b0376	Install Conemaugh 250MVAR Cap Bank	\$ 1,108,058	Mar-16
b1589	Reconfigure Kearny- Loop In P2216 Ckt	\$ 22,218,229	May-18
b2146	Reconfigure Brunswick Sw-New 69kvVCKT-T	\$ 149,126,087	Oct-17
b2702	350 MVAR Reactor Hopatcong 500kv	\$ 22,302,697	Jun-18
b0489.5-b0489.15	Susquehanna Roseland Breakers	\$ 5,857,687	Jun-14
b0489.4	Build new 500 kv transmission facilities from Pennsylvania - New Jersey border at Bushkill to Roseland (Below 500 kv elements of the project)	\$ 40,538,248	Nov-11
b0489	Build new 500 kv transmission facilities from Pennsylvania - New Jersey border at Bushkill to Roseland (500kv and above elements of the project)	\$ 721,891,272	Mar-15
b1156	Burlington - Camden 230kv Conversion	\$ 356,333,540	Oct-14
b1398 - b1399.7	Middleton-Gloucester-Camden	\$ 438,746,971	Jun-15
b1154	North Central Reliability (West Orange Conversion)	\$ 370,007,352	Jun-15
b1304.1-b1304.4	Northeast Grid Reliability Project	\$ 625,126,924	Jun-15
b2436.10	Convert the Bergen - Marion 138 kv path to double circuit 345 kv and associated substation upgrades	\$ 180,222,167	Jan-16
b2436.21	Convert the Marion - Bayonne "L" 138 kv circuit to 345 kv and any associated substation upgrades	\$ 64,274,999	May-16
b2436.22	Convert the Marion - Bayonne "C" 138 kv circuit to 345 kv and any associated substation upgrades	\$ 47,416,059	May-16
b2436.60	Relocate the underground portion of North Ave - Linden "T" 138 kv circuit to Bayway, convert it to 345 kv, and any associated substation upgrades	\$ 48,470,597	Dec-15
b2436.81	Relocate the overhead portion of Linden - North Ave "T" 138 kv circuit to Bayway, convert it to 345 kv, and any associated substation upgrades	\$ 49,111,440	Dec-15
b2436.83	Convert the Bayway - Linden "Z" 138 kv circuit to 345 kv and any associated substation upgrades	\$ 49,111,440	Dec-15
b2436.84	Convert the Bayway - Linden "W" 138 kv circuit to 345 kv and any associated substation upgrades	\$ 46,581,405	Dec-15
b2436.85	Convert the Bayway - Linden "M" 138 kv circuit to 345 kv and any associated substation upgrades	\$ 46,581,405	Dec-15
b2436.90	Relocate Farragut - Hudson "B" and "C" 345 kv circuits to Marion 345 kv and any associated substation upgrades	\$ 31,820,773	May-16
b2437.10	New Bergen 345/230 kv transformer and any associated substation upgrades	\$ 27,828,619	May-16
b2437.20	New Bayway 345/138 kv transformer #1 and any associated substation upgrades	\$ 15,828,121	Dec-15
b2437.21	New Bayway 345/138 kv transformer #2 and any associated substation upgrades	\$ 15,828,121	Dec-15
b2437.30	New Linden 345/230 kv transformer and any associated substation upgrades	\$ 21,021,567	Jul-16
	Total	\$ 4,114,265,532	

* May vary from original PJM Data due to updated information.

Attachment 14
FERC Order

165 FERC ¶ 61,275
UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

Before Commissioners: Neil Chatterjee, Chairman;
Cheryl A. LaFleur, Richard Glick.

PJM Interconnection, L.L.C.
Public Service Electric and Gas Company

Docket No. ER19-204-000

ORDER ACCEPTING TARIFF REVISIONS SUBJECT TO THE ADDITION OF
FOOTNOTE AND TO THE CORRECTION OF ACCOUNT NUMBERS

(Issued December 28, 2018)

1. On October 29, 2018, pursuant to section 205 of the Federal Power Act (FPA),¹ PJM Interconnection, L.L.C. (PJM) filed on behalf of Public Service Electric and Gas Company (PSEG) proposed revisions to PJM's Open Access Transmission Tariff (OATT, or Tariff)² transmission formula rate (Formula Rate) to address various income tax-related items relating to the effects of the Tax Cuts and Jobs Act of 2017 (TCJA) and other Commission formula rate determinations.³ In this order, we accept the proposed revisions, subject to the correction of account numbers, the addition of a clarifying footnote, and submission of a compliance filing, effective January 1, 2019, as discussed more fully below.

I. Background

2. Among other things, the TCJA reduced the federal corporate income tax rate from a maximum of 35 percent to a flat 21 percent, effective January 1, 2018. This tax rate reduction also results in a reduction in accumulated deferred income tax (ADIT) liabilities and ADIT assets on the books of rate-regulated companies. Moreover, a portion of an ADIT liability that was collected from customers will no longer be owed to the Internal Revenue Service (IRS) and is considered excess ADIT. On November 15,

¹ 16 U.S.C. § 824d (2012).

² PJM Interconnection, L.L.C., Intra-PJM Tariffs, OATT ATT H-10A, OATT Attachment H-10A - Public Service Electric and Gas Comp (11.0.0).

³ Tax Cuts and Jobs Act, Pub. L. No. 115-97, 131 Stat. 2054 (2017) (TCJA).

2018, the Commission issued a Notice of Proposed Rulemaking to address the effects of the TCJA on the ADIT reflected in all transmission rates under an OATT, a transmission owner tariff, or a rate schedule of public utility transmission providers (ADIT NOPR).⁴

II. Filing

3. PSEG proposes to revise its Formula Rate template under PJM's Tariff to address income tax-related items that are the result of the TCJA and other recent Commission precedent. Specifically, PSEG proposes the following three changes: (1) a modification to allow the return to (or recovery from) customers of the excess (or deficient) ADIT resulting from changes in the income tax laws; (2) a revision to prospectively account for deferred income taxes associated with the equity component of the Allowance for Funds Used During Construction (AFUDC Equity); and (3) the elimination of the two-step averaging method of calculating the prorated ADIT balance. PSEG states the result of its proposed changes will be an 11.7 percent reduction in 2019 transmission rates, or a reduction of approximately \$157 million. PSEG requests that the Commission treat this as a single-issue rate filing, consistent with recent precedent, and requests an effective date of January 1, 2019.⁵

A. Flow-Back of Excess (or Recovery of Deficient) ADIT

4. PSEG proposes modifications to Appendix A of its Formula Rate in order to return to customers the excess deferred taxes that it collected as a result of the reduction in the federal income tax rate from 35 percent to 21 percent under the TCJA. PSEG explains that this proposed change will also enable the flow-back to, or recovery from, customers of excesses or deficiencies if there are future changes in income tax rates.

5. First, PSEG proposes to add line items to its Formula Rate that will adjust rate base for excess ADIT recorded in Account 254 (Other Regulatory Liabilities), or for deficient ADIT recorded in Account 182.3 (Other Regulatory Assets). PSEG states that the addition of lines 44a, 44b, and 44c (Regulatory Assets and Liabilities) are necessary to ensure that its rate base is adjusted to reflect the sum of any excess and deficient deferred taxes. PSEG states that it recorded excess deferred tax balances at the end of

⁴ *Pub. Util. Transmission Rate Changes to Address Accumulated Deferred Income Taxes*, 165 FERC ¶ 61,117, at P 1 (2018) (ADIT NOPR); *see also Inquiry Regarding the Effect of the Tax Cuts and Jobs Act on Commission-Jurisdictional Rates*, 162 FERC ¶ 61,223 (2018) (seeking comment on whether, and if so how, the Commission should address the effects of the TCJA on ADIT and bonus depreciation in Commission-jurisdictional rates).

⁵ PSEG Filing Letter at 1–2.

2017 in Account 254, and the addition of these line items will ensure that plant-related excess deferred tax remains a reduction to rate base.⁶

6. Second, PSEG proposes additional lines 128a to 128e, and Notes S and T to provide for the flow-back of excess (or recovery of deficient) deferred income taxes to customers.⁷

7. PSEG proposes to amortize the “protected” excess ADIT amounts using the IRS-mandated average rate assumption methodology (ARAM).⁸ For “unprotected” excess ADIT amounts, PSEG proposes to flow back the amounts to customers evenly over calendar year 2019.⁹ PSEG states that during its annual Formula Rate update, it will provide a work paper identifying and describing the excess or deficient deferred income taxes being amortized, which will come directly from its tax accounting records.

8. PSEG states that these proposed revisions are consistent with Commission guidance and recent Commission precedent. For example, PSEG states that the Commission has previously approved tariff revisions to enable amortization of the effect of tax law or tax rate changes in the income tax calculation of formula rates, and reflect the effect of excess or deficient ADIT on rate base by reducing or increasing the tax expense.¹⁰ PSEG asserts that the Commission has approved similar formula rate

⁶ *Id.* at 5.

⁷ PSEG proposes that lines 128a and 128b will include the “amortized deficient deferred taxes” recorded to Account 407.3 (Regulatory Debits) and “amortized excess deferred taxes” recorded to Account 407.4 (Regulatory Credits), respectively. Line 128c is the total of 128a and 128b. Line 128d is the tax gross-up percentage. Line 128e is the total net deficient and excess deferred tax amortization grossed up for taxes (Line 128c multiplied by Line 128d). PSEG Filing Letter at 5.

⁸ Protected excess ADIT consists of tax depreciation associated with plant assets. *Id.* at 6.

⁹ Unprotected excess ADIT consists of items not subject to tax depreciation, such as book-to-tax basis adjustments. *Id.*

¹⁰ *Id.* (citing *Midcontinent Indep. Sys. Operator, Inc.*, 163 FERC ¶ 61,163, at P 7 (2018) (Ameren)).

modifications that permit the return of excess deferred taxes (or the recovery of deficient taxes) because they provide for a more accurate annual revenue requirement.¹¹

9. Finally, PSEG states that its proposed revisions are consistent with the Commission's normalization rules and the Commission's Chief Accountant's guidance on accounting for income taxes.¹²

B. AFUDC Equity

10. PSEG proposes to modify Appendix A of its Formula Rate to recognize that the portion of depreciation expense associated with AFUDC Equity is not deductible for income tax purposes. PSEG states that, currently, its Formula Rate treats the depreciation component of its revenue requirement as if it was fully deductible. PSEG states that this fails to collect its actual tax expense associated with AFUDC Equity, resulting in a deficiency in tax revenues. PSEG states that this modification is intended to be prospective in nature, starting in 2019, so that it captures on-going amounts that have not yet been recovered in rates.¹³

11. PSEG estimates that this change to its Formula Rate will result in a \$1.7 million transmission rate increase – approximately 0.1 percent – in 2019. As with its other proposed changes to Appendix A of the Formula Rate, PSEG states that it will provide a work paper during its annual Formula Rate filing that identifies and describes the amount of AFUDC Equity (and associated depreciation), and the effect on its income tax expense. PSEG states that the work paper will come directly from its tax accounting records.

¹¹ *Id.* (citing *Midcontinent Indep. Sys. Operator, Inc.*, 153 FERC ¶ 61,374, at P 12 (2015) (ITC Companies)).

¹² *Id.* at 6–7 (citing, e.g., *Regulations Implementing Tax Normalization for Certain Items Reflecting Timing Differences in the Recognition of Expenses or Revenues for Ratemaking and Income Tax Purposes*, Order No. 144, FERC Stats. & Regs. ¶ 30,254 (1981), *order on reh'g*, Order No. 144-A, FERC Stats. & Regs. ¶ 30,340 (1982), *aff'd sub nom. Pub. Sys. v. FERC*, 709 F.2d 73 (D.C. Cir. 1983)).

¹³ PSE&G proposes to add lines 128f, 128g, and 128h, labeled “AFUDC Equity Permanent Difference,” to its Formula Rate – Appendix A. Specifically, line 128f includes the addback of book depreciation related to AFUDC Equity. Line 128g is the tax gross-up percentage (1/(1-T)). Line 128h computes the AFUDC Equity Permanent Difference Tax Adjustment by multiplying the tax gross-up percentage on Line 128g by the depreciation expense associated with AFUDC included on Line 128f. PSEG also proposes to add Note U to provide further explanation. PSEG Filing Letter at 7.

12. PSEG argues that these proposed revisions are consistent with: recent Commission precedent; the Commission's recognition that the depreciation associated with AFUDC Equity is not tax-deductible; and, the Commission's normalization rules detailed in Order No. 144-A.¹⁴

C. Averaging Method Used to Calculate ADIT

13. PSEG states that, in Attachment 1 of its current Formula Rate, PSEG calculates the ADIT balance by prorating the projected monthly change in plant-related deferred taxes, and then averaging the beginning and end-of-year balances. PSEG states that this is referred to as the two-step averaging method. PSEG notes that following a 2017 private letter ruling by the IRS to a public utility taxpayer on this issue, the Commission rejected a proposal that applied the two-step averaging method; moreover, the Commission later identified additional entities that use this method and could address the Commission's concerns with it by eliminating its use in determining ADIT balances.¹⁵ Accordingly, PSEG proposes in the instant filing to eliminate the two-step averaging method so that the calculation method is consistent with a methodology recently supported by the Commission.¹⁶ Based upon its 2019 annual Formula Rate forecast, PSEG estimates this change will result in an approximately \$1 million reduction in its revenue requirement.

¹⁴ *Id.* at 8 (citing, *e.g.*, Ameren, 163 FERC ¶ 61,163 at P 57; Order No. 144-A, FERC Stats. & Regs. ¶ 30,340 at 30,136).

¹⁵ *Id.* at 9 (citing, *e.g.*, Ameren Ill. Co., 163 FERC ¶ 61,200 (2018)).

¹⁶ PSEG proposes to revise Formula Rate Attachments 1 and 1A by separating the amounts in Account 282 (Accumulated Deferred Income Taxes—Other Property) in to two categories: those that are not prorated, and those that are. The former will continue to use the simple average of the beginning and end-of-year balances. The latter will reflect the pro rata amount of any increase during the future portion of the period as determined by multiplying the monthly increase or decrease by a fraction: the number of days remaining in the period at the time the increase is to accrue, divided by the total number of days in the future portion of the period. PSEG states that the monthly prorated amounts will be shown in the ADIT – 282 (Subject to Proration) section of Attachment 1 – ADIT Worksheet. The prorated balance included in Total ADIT – 282 (Subject to Proration) will be added to the simple average of ADIT Accounts 190 (Accumulated Deferred Income Taxes), 282 (Not Subject to Proration), and 283 (Accumulated Deferred Income Taxes—Other). PSEG Filing Letter at 9.

III. Notice and Responsive Pleadings

14. Notice of PSEG's filing was published in the *Federal Register*, 83 Fed. Reg. 55,158 (2018), with interventions and protests due on or before November 19, 2018. The New Jersey Board of Public Utilities, PPL Electric Utilities Corporation, and the Public Power Association of New Jersey each filed timely motions to intervene. The New Jersey Division of Rate Counsel (Rate Counsel) filed a timely motion to intervene and limited protest. PSEG filed a motion for leave to answer and answer to Rate Counsel's limited protest.

A. Protest

15. Rate Counsel's protest is limited to PSEG's proposal to flow back excess/deficient ADIT amounts, and it states that it does not oppose PSEG's proposals regarding rate treatment of AFUDC Equity and elimination of the two-step averaging method to calculate ADIT balances.¹⁷

16. Rate Counsel argues that PSEG's proposal to flow back excess/deficient ADIT amounts violates Commission policy with respect to ratemaking treatment of regulatory assets/liabilities, because PSEG seeks to include these amounts in rates without prior Commission approval, which Rate Counsel argues requires a separate FPA section 205 filing.¹⁸ Rate Counsel also notes that the Commission stated in the ADIT NOPR that the return of excess ADIT or collection of deficient ADIT is not a "one-size-fits-all" proposition for all utilities, and Rate Counsel thus argues that the Commission should require a utility to show that its rate—after including a regulatory asset or liability—is just and reasonable.¹⁹

17. Rate Counsel also argues that PSEG's proposed formula rate revisions do not meet the Commission's requirements because PSEG has not provided sufficient data to enable review of its calculations. Rate Counsel objects to PSEG's reliance on a promise to provide a work paper and data as part of its formula rate annual update. Rate Counsel

¹⁷ Rate Counsel Protest at 4.

¹⁸ *Id.* at 4–5 (citing *Piedmont Mun. Power Agency v. Duke Energy Carolinas, LLC*, 162 FERC ¶ 61,109, at P 32 (2018) (*Piedmont*) (citing *Virginia Elec. and Power Co.*, 128 FERC ¶ 61,026, at PP 22, 31–34 (2009))).

¹⁹ *Id.* at 6–7 (citing ADIT NOPR, 165 FERC ¶ 61,117 at PP 27, 37).

also asserts that PSEG's proposal is inconsistent with the ADIT NOPR because it fails to provide the transparency the Commission seeks from formula rates.²⁰

18. Finally, Rate Counsel expresses concerns that PSEG's proposed formula rate revisions would allow it to flow back excess/deficient ADIT amounts arising from future changes in tax law without first seeking Commission approval. Rate Counsel states that it does not oppose a one-year amortization period for unprotected excess ADIT amounts, because this adjustment promotes rate stability in light of other case-specific rate adjustments in PSEG's transmission rates. However, Rate Counsel reiterates that flowing back these amounts is case-specific and that a different amortization period may be appropriate in the future.²¹

19. Rate Counsel accordingly requests that the Commission nominally suspend PSEG's proposed changes, establish a refund effective date, and summarily rule that PSEG must seek Commission approval under FPA section 205 before recovering any future regulatory asset or liability, including flowing back any ADIT-related regulatory asset or liability created by a future change in tax law. Alternatively, Rate Counsel requests that the Commission set this matter for hearing and settlement procedures.²²

B. Answer

20. PSEG argues a single change to its Formula Rate is sufficient under Commission precedent to address the return of excess or the collection of deficient ADIT. PSEG notes that in Ameren the Commission specifically rejected the argument that formula rate revisions should apply to existing ADIT only.²³ PSEG further argues that its proposal is just and reasonable because its Formula Rate identifies the nature of the specific excess deferred taxes, and customers retain their rights to review inputs.²⁴ PSEG next maintains that its proposal to address excess/deficient ADIT is consistent with the ADIT NOPR. PSEG states that it is significant that the ADIT NOPR does not suggest the Commission

²⁰ *Id.* at 8–9.

²¹ *Id.* at 10–11.

²² *Id.* at 11.

²³ PSEG Answer at 4 (citing Ameren, 163 FERC ¶ 61,163 at P 55).

²⁴ *Id.* at 5.

will require a new FPA section 205 filing to address excess/deficient ADIT once utilities include a mechanism in their formula rates to address this issue.²⁵

21. PSEG also argues that Rate Counsel's use of Commission precedent in its protest is unpersuasive. PSEG points out that *Piedmont* was issued before the Commission considered a FPA section 205 filing involving ADIT in Ameren, and that the ADIT NOPR suggests PSEG's single FPA section 205 filing is sufficient. PSEG further maintains that *Piedmont* is factually distinguishable because the Commission focused its discussion there on Account 407 (Amortization of Property Losses, Unrecovered Plant and Regulatory Study Costs) and specifically Account 407.3. By contrast, PSEG explains that it seeks recovery of amounts in Account 254 or 182.3 that are to be recorded in Accounts 410.1 (Provision for Deferred Income Taxes, Utility Operating Income) and 411.1 (Provision for Deferred Income Taxes—Credit, Utility Operating Income), consistent with a recent Commission policy statement (the ADIT Policy Statement).²⁶

22. PSEG next points out that, because the ADIT NOPR is not a final rule, Rate Counsel's argument regarding the permanent worksheet discussed in the NOPR is premature. PSEG maintains that if a final rule makes the permanent worksheet a requirement, then PSEG will submit a compliance filing. In any case, PSEG states, it provided detailed information in the exhibits in its filing; moreover, this is the sort of information PSEG would include in the suggested worksheet. PSEG also clarifies that its proposal consists of a tariff change, not calculations. PSEG maintains that Rate Counsel will have full opportunity to review PSEG's calculations after approval of the requested revisions.²⁷

23. Finally, PSEG states a commitment to submit a compliance filing to make its proposal consistent with the ADIT Policy Statement. In the compliance filing, PSEG explains, it will change references to Accounts 407.3 and 407.4 to Accounts 410.1 and 411.1.²⁸

²⁵ *Id.* at 5–6.

²⁶ *Id.* at 6–8; see *Accounting and Ratemaking Treatment of Accumulated Deferred Income Taxes and Treatment Following the Sale or Retirement of an Asset*, 165 FERC ¶ 61,115 (2018).

²⁷ PSEG Answer at 8–9.

²⁸ *Id.* at 9–10.

IV. Discussion

A. Procedural Matters

24. Pursuant to Rule 214 of the Commission's Rules of Practice and Procedure, 18 C.F.R. § 385.214 (2018), the timely, unopposed motions to intervene serve to make the entities that filed them parties to this proceeding.

25. Rule 213(a)(2) of the Commission's Rules of Practice and Procedure, 18 C.F.R. § 385.213(a)(2) (2018), prohibits an answer to a protest unless otherwise ordered by the decisional authority. We accept PSEG's answer because it has provided information that assisted us in our decision-making process.

B. Substantive Matters

26. We find the proposed revisions to PSEG's Formula Rate to be just and reasonable, and accept the revisions, subject to the correction of account numbers, the addition of a clarifying footnote, and submission of a compliance filing, effective January 1, 2019.²⁹ The proposed revisions, including the revision to effectuate the return of net excess protected and unprotected ADIT resulting from the TCJA, provide for a more accurate annual revenue requirement for PSEG. We further find that PSEG's proposal to flow back unprotected net excess deferred taxes related to the 2017 tax changes over one year, as well as its proposal to flow back protected net excess deferred taxes related to the 2017 tax changes using ARAM, to be just and reasonable.³⁰

27. PSEG initially proposed to amortize the deficient deferred taxes to Account 407.3 and amortize the excess deferred taxes to Account 407.4. PSEG, however, recognized that it erred in choosing these accounts and commits to submit a compliance filing to correct the references to Accounts 407.3 and 407.4 in its proposal to Accounts 410.1 and

²⁹ The United States Court of Appeals for the District of Columbia Circuit has held that, in certain circumstances, the Commission has "authority to propose modifications to a utility's [FPA section 205] proposal *if the utility consents to the modifications.*" *NRG Power Mktg., LLC v. FERC*, 862 F.3d 108, 114–15 (D.C. Cir. 2017).

³⁰ The TCJA requires public utilities to return excess protected ADIT no more rapidly than over the life of the underlying asset using ARAM, or, where a public utility's books and underlying records do not contain the vintage account data necessary, it must use an alternative method. TCJA, Section 13001(b)(6)(A), 131 Stat. at 2099. In contrast, the TCJA does not specify what method public utilities must use for excess or deficient unprotected ADIT.

411.1. Accordingly, we accept PSEG's proposed corrections, subject to a compliance filing to be submitted within 30 days of the date of this order.

28. Rate Counsel contends that PSEG's proposal to add line items in its Formula Rate to flow back or recover future excess/deficient ADIT amounts violates Commission policy with respect to ratemaking treatment of regulatory assets/liabilities. In this filing, PSEG sought only the return of net excess protected and unprotected ADIT related to the TCJA; in order to effectuate that return PSEG established a mechanism in its Formula Rate to reflect the costs of those regulatory assets and liabilities in rates. We do not find a violation of Commission policy in accepting a mechanism in a formula rate template related to the return/recovery of excess/deficient ADIT.³¹ However, we agree with Rate Counsel that any future attempts to return/recover excess/deficient ADIT will require PSEG to make a FPA section 205 filing before those regulatory assets and liabilities can be reflected in rates. Accordingly, we will accept PSEG's proposal subject to the condition that, within 30 days of the date of this order, PSEG add a footnote to its Formula Rate clarifying that PSEG must submit a FPA section 205 filing to obtain Commission approval prior to reflecting in rates any regulatory assets and liabilities arising from future tax changes.

29. As for Rate Counsel's argument that PSEG has not provided sufficient data to enable review of its calculations regarding the flow-back of ADIT, we find that PSEG's filing, including Exhibits III through VI, provides sufficient detail for us to approve the proposed changes to PSEG's Formula Rate.³² However, we note that, as the Commission has previously explained, PSEG must provide in its annual formula rate informational filings sufficient support and explanation for all inputs so that interested entities can verify that each input is consistent with the requirements of the formula without forcing interested entities to make extensive information requests to understand the implementation of the formula rate and to verify its correctness.³³ In addition, as to Rate Counsel's argument that PSEG's proposal is inconsistent with the ADIT NOPR, we remind Rate Counsel that the ADIT NOPR is only a proposal to require public utilities

³¹ Ameren, 163 FERC ¶ 61,163 at P 52; *ITC Companies*, 153 FERC ¶ 61,374 at P 1.

³² Exhibit III is a summary of the estimated impact to the 2019 annual transmission revenue requirement relating to flow-back of excess deferred taxes. Exhibit IV is a summary of estimated excess deferred income tax amortizations. Exhibit V reflects protected and unprotected excess deferred income taxes. Exhibit VI reflects excess deferred income taxes amortization using the ARAM PowerTax Report.

³³ Ameren, 163 FERC ¶ 61,163 at P 57.

with transmission formula rates to incorporate a new permanent worksheet to track ADIT information and is not final.³⁴

The Commission orders:

PSEG's proposed Tariff revisions are hereby accepted, effective January 1, 2019, subject to the submission of a compliance filing to add a clarifying footnote and to correct certain account numbers within 30 days of the date of this order, as discussed in the body of this order.

By the Commission. Commissioner McIntyre is not voting on this order.
Commissioner McNamee is not participating.

(S E A L)

Nathaniel J. Davis, Sr.,
Deputy Secretary.

³⁴ Our action in this order does not foreclose on any potential further action to address the effects of the TCJA through a final rule.