Supplement No. 21 Electric-Pa. P. U. C. No. 38

WEST PENN POWER COMPANY

RATES, TERMS, AND CONDITIONS

GOVERNING

INTERCHANGE OF ELECTRIC ENERGY

WITH

THE PENNSYLVANIA STATE UNIVERSITY

Issued: December 21, 2017

Effective: January 1, 2018

By: Steven E. Strah, President Reading, Pennsylvania

NOTICE

Supplement No. 21 makes changes to Rider I. See Twentieth Revised Page No. 2.

Electric-Pa. P. U. C. No. 38 (Supp. 21) Twentieth Revised Page No. 2 Superseding Nineteenth Revised Page No. 2

LIST OF MODIFICATIONS

Rider G – The Smart Meter Technologies Charge Rider rates have been changed and decreased (See Third Revised Page 20).

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DEFINITIONS

Certain words, when used in the Rules and Regulations, and Agreements of West Penn Power Company, shall have the following meanings:

"Advanced Metering": A Customer's billing meter as defined in 52 Pa. Code Chapter 57, Subchapter O. Advanced Meter Deployment.

"Alternative Energy Portfolio Standards (AEPS)": Standards requiring that a certain amount of electric energy sold from alternative energy sources be included as part of the sources of electric utilities within the Commonwealth of Pennsylvania in accordance with the Alternative Energy Portfolio Standards Act, 73 P.S. §§ 1648.1 – 1648.8 ("AEPS Act") as may be amended from time to time.

"Billing Demand": The demand determinant used to compute the monthly bill.

"Commission": The Pennsylvania Public Utility Commission or any lawful successor thereto.

"Company": West Penn Power Company.

"Company Charges": The sum of distribution charges, non-bypassable surcharges and riders, and, if Default Service is taken from Company, Default Service charges.

"Competitive Energy Supply": The unbundled energy, capacity, market based transmission and ancillary services provided by an Electric Generation Supplier pursuant to the Customer Choice and Competition Act.

"Customer": The Pennsylvania State University.

"Customer Choice and Competition Act": The Pennsylvania legislation known as the "Electricity Generation Customer Choice and Competition Act," 66 Pa. Code S. §§ 2801-2813 as implemented by the Default Service Regulations 52 Pa. Code S. §§52.181-52.189, and by Act 129 and as may be amended from time to time.

"Default Service": Service provided pursuant to a Default Service Program to a Default Service Customer.

"Default Service Customer": A Delivery Service Customer not receiving service from an EGS.

"Delivery Service": Provision of distribution of electric energy and other services provided by the Company.

"Delivery Service Customer": A Customer who takes Delivery Service.

"Direct Access": Direct Access shall have the meaning as set forth in the Customer Choice and Competition Act.

"Electric Generation Supplier (EGS)": EGS shall have the meaning as set forth in the Customer Choice and Competition Act.

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DEFINITIONS (continued)

"FERC": The Federal Energy Regulatory Commission

"Industrial Customer Class": Tariff No. 38 and Tariff No. 40 Rate Schedules 35, 40, 44 and 46.

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"Kilovolt-ampere (KVA)": 1,000 volt-amperes

"Measured Demand": The measured demand for any month shall be the average of the weekly demands established during the calendar weeks ending within the billing month.

"Network Service Peak Load (kW NSPL)" – A Customer's one (1) coincident peak kW Network Service Peak Load in effect from time to time, as calculated by the Company in accordance with PJM rules and requirements.

"Non-Market Based Services Transmission Charge": PJM Regional Transmission Enhancement Plan charges, PJM Expansion Cost Recovery, as well as any other FERC-approved PJM transmission charges that will not be reconciled through the Company's Hourly Pricing Default Service Rider.

"Pennsylvania Gross Receipts Tax": References to the Pennsylvania gross receipts tax or Pennsylvania gross receipts tax rate, or provisions that incorporate the same shall include the Revenue Neutral Reconciliation enacted by the Customer Choice and Competition Act.

"PJM": PJM Interconnection, L.L.C. or any successor organization/entity thereto.

"Revenue": Revenue when used with guarantee, guarantee of Revenue, Revenue guarantee or financing means the Revenue derived only from the Variable Distribution Charge or Distribution Charges that vary with billing determinants.

"Service": Any regulated supply of electricity by the Company, or provision to supply electricity, or any work or material furnished, or any obligation performed by the Company under its Rules and Regulations or Rate Schedules. Regulated charges for Service are published in this Tariff, including Distribution Charges, Default Service charges, surcharges, and riders. Charges for Service exclude Default Service charges when Customer receives Competitive Energy Supply.

"Week": A seven day period commencing on Sunday at 0000 through Saturday 2400 midnight.

"Weekly Demand": The maximum simultaneous fifteen-minute kilovolt-ampere demand but not less than 50 percent of the highest weekly demand of the month.

RULES AND REGULATIONS

The following Rules and Regulations govern the supply of service by West Penn Power Company.

1. Continuity of Service

The Company will use reasonable diligence in attempting to provide continuous service. The Company shall not be liable for any loss, cost, damage, or expense to Customer caused by any failure to supply electricity according to the terms of a contract, or by any interruption of the supply of electricity, reversal of the service, variation in voltage or by any other failure, when such failures are due to acts of God, public enemies, accidents, strikes, riots, wars, extraordinary repairs, operating necessities, orders of Court or other Governmental authority, or to any other acts or conditions reasonably beyond the control of the Company.

In the event of an emergency threatening the integrity of its system, the Company may without liability interrupt, curtail, or suspend service to Customer.

Additional Limitations on Liability in Connection with Direct Access. Other than its duty to deliver electric energy and capacity, the Company shall have no duty or liability to Customer receiving Competitive Energy Supply arising out of or related to a contract or other relationship between Customer and an EGS

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RULES AND REGULATIONS (continued)

The Company shall implement Customer selection of an EGS consistent with applicable rules of the Commission and shall have no liability to Customer receiving Competitive Energy Supply arising out of or related to switching EGSs, unless the Company is negligent in switching or failing to switch Customer.

The Company shall have no duty or liability with respect to electrical energy before it is delivered by an EGS to a point of delivery on the Company's electric distribution system. After its receipt of electric energy and capacity at the point of delivery, the Company shall have the same duty and liability for distribution service to Customers receiving Competitive Energy Supply as to those receiving Default Service from the Company.

The Customer, by accepting service from the Company, assumes responsibility for the safety and adequacy of the wiring and equipment installed by the Customer. The Customer agrees to indemnify and save harmless the Company from any liability which may arise as a result of the presence or use of the Company's electric service or property, defects in wiring or devices on the Customer's premises, or the Customer's failure to comply with the National Electrical Code.

The Company does not guarantee a continuous, uninterrupted, or regular supply of electric service. The Company may, without liability, interrupt or limit the supply of electric service for the purpose of making repairs, changes, or improvements in any part of its system for the general good of the service or the safety of the public or for the purpose of preventing or limiting any actual or threatened instability or disturbance of the system. The Company shall not be liable for any damages due to accident, strike, storm, lightning, riot, fire, flood, legal process, state or municipal interference, or any other cause beyond the Company's control.

In all other circumstances, unless caused by the willful and/or wanton misconduct of the Company, the liability of the Company to Customers or third parties for all injuries and damages, direct or consequential, including damage to computers and other electronic equipment and appliances, or loss of business, profit or production caused by variations or interruptions in electric supply, high or low voltage, spikes, surges, single phasing, phase failure or reversal, stray voltage, neutral to earth voltage, equipment failure or malfunction, response time to electric outages or emergencies, or the non-functioning or malfunctioning of street lights or traffic control signals and devices shall be limited to Five Hundred Dollars (\$500) for residential customers and Two Thousand Dollars (\$2,000) for commercial and industrial customers. In no case shall the Company's aggregate liability for multiple claims arising from a single alleged negligent act, incident, event, or omission exceed Two Hundred Thousand (\$200,000). The Company's actions that are in conformance with electric system design, the National Electrical Safety Code, or electric industry operation practices shall be conclusively deemed not to be negligent. A variety of

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RULES AND REGULATIONS (continued)

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protective devices and alternate power supply equipment that may prevent or limit such damages are available. Due to the sensitive nature of computers and other electronically controlled equipment, the Customer, especially three-phase Customers, should provide protection against variations in supply.

To the extent applicable under the Uniform Commercial Code or on any theory of contract or products liability, the Company disclaims and shall not be liable to any Customer or third party for any claims involving and including, but not limited to, strict products liability, breach of contract, and breach of actual or implied warranties of merchantability or fitness for an intended purpose.

If the Company becomes liable under Section 2806(g) or 2809(c) of the Public Utility Code, 66 Pa.C.S. §§ 2806(g) and 2809(f), for Pennsylvania state taxes not paid by an Electric Generation Supplier (EGS), the non-compliant EGS shall indemnify the Company for the amount of additional state tax liability imposed upon the Company by the Pennsylvania Department of Revenue due to the failure of the EGS to pay or remit to the Commonwealth the tax imposed on its gross receipts under Section 1101 of the Tax Report Code of 1971 or Chapter 28 of Title 66.

2. Metering

(a) The Company owns, maintains, installs and operates all meters and metering equipment necessary to obtain the information required to bill Customer. The Company may select and use any type of meters and metering equipment, provided it meets the accuracy requirements of the Public Utility Commission.

If requested by the Customer, the Company will install a communicating point-to-point ("PTP") smart meter at the Customer's metered service location prior to the Company's system-wide deployment of smart meters. Prior to installation, the Customer shall pay \$457.82 for a three phase PTP smart meter. Costs for Customer requests for a PTP smart meter at service locations without a functional public cellular network will be determined on a case by case basis and must be paid by the Customer prior to the commencement of Company work. Costs are charged individually for each metering point at each service location, and include the estimated incremental costs associated with a PTP smart meter that meets the requirements of direct access, a communication cellular card, and connection fees. The Customer shall pay \$30.00 for requests to remove a PTP smart meter prior to the Company's system-wide deployment of smart meters. All other costs and cost reconciliations associated with Customer requests for a PTP smart meter shall be collected from the associated customer class in the Smart Meter Technologies Surcharge. The Customer is responsible for any repairs to Customer-owned equipment, such as meter socket repairs, prior to the installation of a PTP smart meter. The Company shall maintain ownership of all PTP smart meters.

(b) An advanced meter may be installed, maintained, and removed according to provisions in Appendix C of the Joint Petition for Full Settlement of West Penn Power Company's Restructuring Plan and Related Court Proceeding at s Docket No. R-00973981.

RULES AND REGULATIONS (continued)

An advanced meter is defined as a meter (1) capable of storing electric consumption data at specified time intervals of no greater than one-half hour and in conformance with applicable performance specifications, and (2) capable of remote meter reading.

The following list of advanced meters have received approval from the PA Public Utility Commission ("Commission") for conformance with the Advanced Meter Standards Report and Reference Manual provisions, which dictate applicable performance standards, requirements and specifications.

ITEM NO.	NAME	MANUFACTURE R	MODEL NUMBER	ADVANCED CAPABILITIES					CUSTOMER CLASS							
				LOAD PROFILE	REMOTE COMMUNICATION	PULSE OUTPUT	PASSWORD PROTECTION	BI-DIRECTIONAL	MULTIPLE CALLOUT	OUTAGE NOTIFICATION	POWER QUALITY	REACTIVE	LOSS COMPENSATION	RESIDENTIAL	COMMERCIAL	INDUSTRIAL
1	Fulcrum	Schlumberger	SMxxxx	Х	Х	Х	Х					Х			Х	Х
2	Vectron	Schlumberger	SVxxx	Х	Х	Х	Х				Х			Х	Х	
3	Quantum	Schlumberger	ST-Q111	Х	Х	Х	Х	Х				Х	Х		Х	Х
4	Centron	Schlumberger	C1x	Х	Х	Х	Х							Х	Х	
5	Solid State Recorder	Datastar	DS-101	Х	Х	Х	Х								Х	Х

ADVANCED METER CATALOG

GENERAL COMMENTS

1. Additional charges for services related to advanced capabilities may be charged to customers as appropriate.

3. Billing

(a) Billing Errors. When the Company provides billing for Competitive Energy Supply on behalf of an EGS, Company shall not be responsible for billing errors resulting from incorrect price information received from an EGS.

(b) Billing Options. The Company will always bill the Customer for the Company's distribution service charges, associated surcharges and riders, and Default Service charges (when the Company is providing Default Service). Customer may request that its EGS provide a separate bill only for the Competitive Energy Supply.

4. Taxes on Contributions in Aid of Construction (CIAC) and Customer Advances (CAC)

Any CIAC, CAC or other like amounts received from the Customer which shall constitute taxable income as defined by the Internal Revenue Service will include a component to pay the state and federal income taxes associated with the CIAC or CAC.

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RULES AND REGULATIONS (continued)

5. Individualized Company Facilities and Services:

The Company may, at its sole discretion and upon Customer's request, furnish special, substitute, or additional facilities or services. When the Company provides facilities or services not normally supplied, or when the estimated or actual cost of such individualized, substitute, or additional facilities or services exceeds the estimated costs of the standard facilities or services that normally would be supplied by the Company without special charge, the Company may require special agreements and may establish minimum charges and facilities charges. At a minimum, rates or contract provisions shall be established on a case by case basis and shall be sufficient to recover all appropriate incremental costs of the service and a contribution to fixed costs.

The Company may modify or discontinue the provisions of this rule at any time, subject to any orders of the Pennsylvania Public Utility Commission. Unless otherwise ordered by the Pennsylvania Public Utility Commission, any contracts in effect prior to any such modification or discontinuance of the rule shall remain in effect under the existing term and conditions specified in the contract.

6. Changing Electric Generation Supplier

The Company shall change a Customer's EGS in accordance with the regulations and directives. Changes in a Customer's EGS shall be effective within three (3) business days after the enrollment request is processed, regardless of whether the meter reading is actual or estimated.

7. Payment Processing

When Customer requests that Company provide billing service for Competitive Energy Supply, Company shall provide such service, indicating the charges for the EGS on Customer's monthly bill. Should payments made in response to said billing be less than the full amount billed, payment will be first credited against Company charges until paid in full. The balance will then be credited to the EGS.

(C) Change

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RATE SCHEDULE

AVAILABILITY

Available for service at 12,470 volts from Company substations.

DISTRIBUTION CHARGES		
CUSTOMER CHARGE	\$793.00 per month	(I)
	-	
DEMAND CHARGE		
First 10,000 kilovolt-amperes	. \$2.52 per kilovolt-ampere	(I)
Additional kilovolt-amperes	. \$2.42 per kilovolt-ampere	(I)

RIDERS

Bills rendered under this schedule are subject to the following applicable Rider Charges:

Rider A -- Tax Adjustment Surcharge Rider F -- Phase III Energy Efficiency and Conservation Charge Rider G -- Smart Meter Technologies Charge Rider J -- Default Service Support Charge

DEFAULT SERVICE CHARGES

For Customers receiving Default Service from the Company, Rider I the Hourly Pricing Default Service Rider rates apply.

(I) Increase

RATE SCHEDULE (continued)

LATE PAYMENT CHARGE

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The above net rates apply if the current bill is paid in full within 15 days of the date of such bill and if all previous undisputed bills have been paid in full. A late payment charge of 2.0% per month of the unpaid balance of a bill will be made for failure to make payment in full by the due date. These charges are to be calculated on the overdue portions of the bill only. Such interest rate, when annualized, shall not exceed 15% simple interest per annum.

DETERMINATION OF CUSTOMER'S BILLING DEMAND

The Measured Demand for any month shall be the average of the weekly demands established during the calendar weeks ending within the billing month. The Weekly Demand shall be the maximum simultaneous fifteen-minute kilovolt-ampere demand but not less than 50 percent of the highest weekly demand of the month. The Billing Demand in the current month shall be the greatest of: (i) twenty-five (25) KW, (ii) the Measured Demand established in the month during On-peak hours, (iii) forty percent (40%) of the Measured Demand established in the month during Off-peak hours, (iv) 18,000 kW, or (v) fifty percent (50%) of the highest billing demand established during the preceding eleven (11) months.

Measured Demand shall be determined from the synchronous aggregation of the substation meters with adjustments made to eliminate double counting of peak load when load is moved among substations causing a peak.

RIDERS

RIDER A TAX ADJUSTMENT SURCHARGE

In addition to the charges provided in this Tariff, a surcharge of 0.00% will apply to all bills rendered on and after May 3, 2015.

The Tax Adjustment Surcharge will be recomputed using the elements prescribed by the Commission in its regulations at 52 Pa. Code § 69.51, <u>et seq.</u> and at 52 Pa. Code § 54.91, <u>et seq.</u>:

- 1. on December 21 of each year until the surcharge is rolled into base rates, or
- 2. whenever the Company experiences a material change in any of the taxes used in calculation of the surcharge due to any changes in its state tax liability arising under 66 Pa.C.S. §§ 2806(g), 2809(c) or 2810.

The recalculation will be submitted to the Commission within ten (10) days after the occurrence of the event which occasions such recomputation or as prescribed in the Commission's regulations at 52 Pa. Code §54.91, <u>et seq.</u> If the recomputed surcharge is less than the one in effect, the Company will, or if the recomputed surcharge is more than the one in effect the Company may, submit with such recomputation a tariff or supplement to reflect such recomputed surcharge. The effective date of such tariff or supplement shall be ten (10) days after the filing or as prescribed in the Commission's regulations at 52 Pa. Code § 54.91, <u>et seq.</u>

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RIDERS

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Issued: May 1, 2015

Effective: May 3, 2015

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RIDERS

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RIDERS

RIDER F

PHASE III ENERGY EFFICIENCY AND CONSERVATION CHARGE RIDER

An Energy Efficiency and Conservation ("EEC") Charge ("Phase III EE&C-C") shall be applied to each Billing Unit during a billing month to Customers served under this Tariff. Billing Units are defined as follows:

Industrial Customer Class rates will be calculated to the nearest one-hundredth of a dollar per kW PLC. The Phase III EE&C-C rates shall be calculated separately for each Customer Class according to the provisions of this rider.

For service rendered June 1, 2017 through May 31, 2018 the Phase III EE&C-C (C) rates billed by Customer Class are as follows:

Industrial Customer Class (Tariff No. 40 Rate Schedule 35, 40, 44 and 46 and Tariff No. 38):

\$ 0.24 per kW PLC.

(I)

(C) Change (I) Increase

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RIDERS

Rider F (continued)

The Phase III EE&C-C rates by Customer Class shall be calculated in accordance with the formula set forth below:

 $EEC-C = [(EEC_C - E - E^2) / S] X [1 / (1 - T)]$

 $EEC_{C} = EEC_{Exp1} + EEC_{Exp2} + EEC_{Exp3}$

Where:

- EEC-C = The charge in cents or dollar per Billing Unit by Customer Class as defined by this rider applied to each Billing Unit for the Rate Schedules identified in this rider.
- $EEC_C =$ The Energy Efficiency and Conservation Costs by Customer Class incurred and projected to be incurred by the Company for the EE&C-C Computational Period calculated in accordance with the formula shown above.
- EEC_{Exp1} = Costs incurred and projected to be incurred associated with the Customer Class specific Phase III EE&C Programs as approved by the Commission for the Phase III EE&C-C Computational Period by Customer Class. These costs also include an allocated portion of any indirect costs incurred associated with all the Company's Phase III EE&C Programs for the Phase III EE&C-C Computational Period. Such costs shall be allocated to each Customer Class based on the ratio of class-specific approved budgeted program costs to total approved budgeted program costs.
- $EEC_{Exp2} = An allocated portion of incremental administrative start-up costs incurred$ by the Company through May 31, 2016 in connection with thedevelopment of the Company's Phase III EE&C Programs in response tothe Commission's orders and guidance at Docket Nos. M-2012-2289411and M-2008-2069887. These costs to design, create, and obtainCommission approval for the Company's Phase III EE&C Programsinclude, but are not limited to, consultant costs, legal fees, and other directand indirect costs associated with the development and implementation ofthe Company's Phase III EE&C Programs in compliance withCommission directives. Such costs shall be allocated to each CustomerClass based on the ratio of class-specific approved budgeted program coststo total approved budgeted program costs.

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RIDERS

Rider F (continued)

- $EEC_{Exp3} = An allocated portion of the costs the Company incurs and projects to incur to fund the Commission's statewide evaluator contract which shall be excluded in the final determination of the Act 129 limitation on the Company's Phase III EE&C Programs costs. Such costs shall be allocated to each Customer Class based on the ratio of class-specific approved budgeted program costs to total approved budgeted program costs.$
- E = The cumulative over or under-collection of Phase III EE&C costs by Customer Class that results from the billing of the Phase III EE&C-C rates (an over-collection is denoted by a positive E and an under-collection by a negative E).
- $E^2 =$ Phase II EE&C final reconciliation over or under-collection of EEC costs by customer class that results from the billing of the Phase II EEC-C rates through March 31, 2016 (an over-collection is denoted by a positive E and an under-collection by a negative E), and any expenses to finalize any measures installed and commercially operable on or before May 31, 2016; expenses to finalize any contracts; other Phase II administrative obligations; and any remaining Phase II EE&C revenues after March 31, 2016.
- S = The Company's projected Billing Units (kWh sales delivered to all Customers in the specific Customer Class or kW PLC demand for the Industrial Customer Class).
- T = The Pennsylvania gross receipts tax rate in effect during the billing month expressed in decimal form as reflected in the Company's base rates.

All capitalized terms not otherwise defined in this rider shall have the definitions specified in the Definitions of Terms section of this Tariff. For the purpose of this Rider, the following additional definitions shall apply:

(C) Change

Issued: May 2, 2016

Effective: June 1, 2016

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Rider F (continued)

- 1. Phase III EE&C-C Computational Period The 12-month period from June 1 through May 31.
- 2. Phase III EE&C-C Initial Reconciliation Period June 1, 2016 through March 31, 2017 for the initial period of the rider.
- 3. Phase III EE&C-C Reconciliation Period The 12-month period ending March 31 each year thereafter, except for the Initial Reconciliation Period, for the duration of this rider.
- 4. Peak Load Contribution ("PLC") A Customer's contribution to the Company's transmission zone normalized summer peak load, as estimated by the Company in accordance with PJM rules and requirements.
- 5. Phase III EE&C The energy efficiency plan that terminates on May 31, 2016. Revenues and EE&C Costs will continue to accrue past the termination date. A final reconciliation of the remaining balance will be included in the June 1, 2017 Phase III EE&C-C rate calculation as a separate line item.

The Company will submit to the Commission by May 1 of each year starting May 1, 2017: (1) a reconciliation between actual Phase III EE&C-C revenues and actual Phase III EE&C-C costs for the Phase III EE&C-C Reconciliation Period, except for the Phase III EE&C-C Initial Reconciliation Period, as adjusted for removal of gross receipts tax; (2) any adjustment to the forecasted Phase III EE&C-C revenues anticipated to be billed during April through May of that year, as adjusted for removal of gross receipts tax; (3) the Phase III EE&C program cost estimate for the forthcoming Phase III EE&C-C Computational Period by customer class; and (4) Phase III EE&C final reconciliation over or under-collection of EEC costs by customer class that results from the billing of the Phase III EEC-C rates and remaining Phase III EEC costs. There shall also be a final reconciliation of amounts to be collected or refunded after May 31, 2021.

Upon determination that the Phase III EE&C-C rates, if left unchanged, would result in material over or under-collection of all recoverable costs incurred or expected to be incurred by Customer Class, the Company may request that the Commission approve one or more interim revisions to the Phase III EE&C-C rates to become effective thirty (30) days from the date of filing, unless otherwise ordered by the Commission.

The Company shall file an annual report of collections under this rider by April 30th of each year until the conclusion of this rider.

At the conclusion of the duration of this rider, the Company is authorized to recover or refund any remaining amounts not reconciled at that time under such mechanism as approved by the Commission.

Application of the Phase III EE&C-C rates shall be subject to annual review and audit by the Commission.

(C) Change

Issued: May 2, 2016

Effective: June 1, 2016

RIDERS

RIDER G SMART METER TECHNOLOGIES SURCHARGE

A Smart Meter Technologies ("SMT") Surcharge shall be applied as a monthly Customer charge during each billing month to metered Customers served under this Tariff determined to the nearest cent. The SMT Surcharge rate shall be calculated separately for each Customer Class according to the provisions of this Surcharge Tariff. The SMT-C shall be included in the distribution charges of the monthly bill.

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For service rendered on or after January 1, 2018 the SMT Surcharge rate billed by Customer Class is as follows:

Industrial Customer Class (Tariff No. 40 Rate Schedules 35, 40, 44, 46, and Tariff No. 38)

\$0.73 per month

The SMT Surcharge rate by Customer Class shall be calculated in accordance with the formula set forth below:

$$SMT = [((SMT_C - E) / CCBD) / 12] X [1 / (1 - T)]$$

$$SMT_C = SMT_{Exp1} + SMT_{Exp2}$$

Where:

- SMT = The monthly surcharge by Customer Class as defined by this Surcharge Tariff applied to each Customer billed under this Tariff.
- $SMT_C =$ The Smart Meter Technologies costs by Customer Class projected to be incurred by the Company for the SMT Computational Year calculated in accordance with the formula shown above.
- $SMT_{Exp1} = A$ projection of costs to be incurred associated with the Customer Class specific Smart Meter Technology Procurement and Installation Plan ("Plan") as approved by the Commission for the SMT Computation Year by Customer Class including carrying charges on capital costs, depreciation expense, accumulated deferred income taxes, allowance for funds used during construction, and operational and maintenance expenses. These costs would also include an allocated portion of any projected indirect costs to be incurred benefiting all Customer Classes of the Company's Plan for the SMT Computational Year. Any reduction in operating expenses or avoided capital expenditures due to the Smart Metering Program will be deducted from the incremental costs of the Smart Meter Program to derive the net incremental cost of the Program that is recoverable. Such reductions shall include any reductions in the Company's current meter and meter reading costs.

(C) Change(D) Decrease

RIDERS

Rider G (continued)

(C)

- $SMT_{Exp2} =$ A Customer Class allocated portion of \$45.1 million of expenditures between 2009 and 2010 in support of the development of a smart meter deployment plan. The \$45.1 million will be recovered via a levelized basis over a 5.5-year period beginning with the SMT Surcharge start date, and will not include interest on overcollections or under-collections. A Customer Class allocation of \$5.712 million of interest charges will be added, and will be amortized for recovery over a 5.5-year period coincident with the recovery of the \$45.1 million.
 - E = The over or under-collection of SMT costs by Customer Class that results from the billing of the SMT Surcharge rates during the SMT Reconciliation Year (an overcollection is denoted by a positive E and an under-collection by a negative E), including applicable interest for SMT_{Exp1} costs. Interest shall be computed monthly at the legal rate determined pursuant to 41 P.S. § 202, from the month the over or under-collection occurs to the month that the over-collection is refunded or the under-collection is recovered from Customers in the specific Customer Class. Any reduction in operating expenses or avoided capital expenditures due to the Smart Metering Program will be deducted from the incremental costs of the Smart Meter Program to derive the net incremental cost of the Program that is reconciled to the billed SMT Surcharge rates during the SMT Reconciliation Year. Such reductions shall include any reductions in the Company's current meter and meter reading costs.
 - CCBD = The Company's projected Customer Class Billing Determinants for the specific Customer Class for the SMT Computational Year. Billing Determinants shall be the average Customer Class count for the Industrial Class.
 - T = The Pennsylvania gross receipts tax rate in effect during the billing month expressed in decimal form as reflected in the Company's base rates.

All capitalized terms not otherwise defined in this Surcharge Tariff shall have the definitions specified in the Definitions section of this Tariff. For the purpose of this Surcharge Tariff, the following additional definitions shall apply:

- 1. SMT Computational Year The 12-month period from January 1 through the following December 31 with the exception of the initial SMT Computational Year that will be the 4-month period from September 1, 2011 through December 31, 2011.
- 2. SMT Reconciliation Year The 12-month period ending June 30 immediately preceding the SMT Computational Year.

(C) Change

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RIDERS

Rider G (continued)

(C)

The initial SMT Surcharge rates pursuant to this Surcharge Tariff shall be effective September 1, 2011 through December 31, 2011. Subsequent SMT Surcharge rates shall be filed with the Commission by August 1 of each year beginning August 1, 2012, and the SMT Surcharge rates shall become effective the following January 1, unless otherwise ordered by the Commission, and shall remain in effect for a period of one year, unless revised on an interim basis subject to the approval of the Commission. Upon determination that the SMT Surcharge rates, if left unchanged, would result in material over or under-collection of all recoverable costs incurred or expected to be incurred during the then-current SMT Computational Year, the Company may request that the Commission approve one or more interim revisions to the SMT Surcharge rates to become effective thirty (30) days from the date of filing, unless otherwise ordered by the Commission.

The Company shall file an annual report of collections under this Surcharge Tariff within thirty (30) days following the conclusion of each SMT Reconciliation Year.

At the conclusion of the duration of this reconciliation Surcharge Tariff, the Company is authorized to recover or refund any remaining amounts not reconciled at that time under such mechanism as approved by the Commission.

Application of the SMT Surcharge rates shall be subject to annual review and audit by the Commission.

RIDERS

RIDER I HOURLY PRICING DEFAULT SERVICE RIDER

AVAILABILITY:

The charges billed under this rider are applicable to all Customers on Rate Schedules 35 (large), 40, 44, and 46 who elect to take Default Service from the Company. These charges are also applicable to Customers on Rate Schedules 20, and 30 (small) on a voluntary basis who meet the metering requirements of this rider. Rates shall be billed under this rider on the next scheduled meter reading date after electing Default Service.

Rate Schedules 20 and 30 Customers electing service under this rider must have smart meter technology installed as part of the Company's smart meter plan filed with and approved by the Commission.

Hourly Pricing Service Charges:

Customers participating in the Hourly Pricing Default Service Rider will be billed for usage based on the following calculation:

 $\begin{array}{l} Hourly\ Pricing\ Service\ Charges = (HP_{Energy\ Charge} + HP_{Cap-AEPS-Other\ Charge} + HP_{Administrative\ Charge} + HP_{Unc} + HP_{Reconciliation\ Charge})\ X\ [1\ /\ (1-T)] \end{array}$

HP Energy Charge per kWh:

 $HP_{Energy Charge} = \sum_{t=1}^{n} [kWh_t x (LMP_t + HP_{Oth}) x HP_{Loss Multipliers}]$ Where:

n = Total number of hours in the billing period

t = An hour in the billing period

- LMP = the "Real Time" PJM load-weighted average Locational Marginal Price for the APS Transmission Zone
- $HP_{Oth} =$ \$0.00400 per kWh for estimate of capacity, ancillary services, NITS, AEPS compliance and other supply components.

HP_{Loss Multipliers}:

1.0356

(C) Change

 (\mathbf{C})

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RIDERS

Rider I (continued)

HP Cap-AEPS-Other Charge:

\$0.01060 per kWh representing the costs paid by the Company to the supplier for capacity, AEPS costs, and any other costs incurred by the supplier multiplied by the HP_{Loss Multipliers}. This charge is subject to quarterly adjustments.

<u>HP Administrative Charge:</u>

\$0.00054 per kWh representing the administrative costs incurred by the Company associated with providing Hourly Pricing Service.

HP Uncollectibles Charge:

\$0.00012 per kWh representing the default service-related uncollectible accounts expense associated with Hourly Pricing Default Service. This charge is subject to annual adjustment on June 1 of each year.

HP Reconciliation Charge:

The HP Reconciliation Charge Rate (" E_{HP} ") shall be applied to each kWh of Default Service that the Company delivers to Customers under this rider as determined to the nearest onethousandth of a cent per kWh. The E_{HP} rate shall be included as a non-bypassable component billed to Customers receiving Default Service from the Company under this rider. The rate shall be calculated according to the provisions of this rider, and shall be calculated and applied equally to Customers under this rider.

For service rendered December 1, 2017 through February 28, 2018, the E_{HP} rate is as follows: (I)

HP Reconciliation Charge Rate = 0.02539 per kWh

The E_{HP} rate will be calculated at the end of each Default Service Quarter (three months ending March 31st, June 30th, September 30th, and December 31st) to be effective for the threemonth period beginning on the first day of the third calendar month following the end of that Default Service Quarter (June 1st, September 1st, December 1st, and March 1st). The E_{HP} rate shall be calculated in accordance with the formula set forth below:

$$E_{HP} = ((DS_{HPExp1} + DS_{HPExp2}) - PTC_{HPRev} + DS_{HPInt}) / DS_{HPSales}$$

Where:

 E_{HP} = The rate determined to the nearest one-thousandth of a cent per kWh to be applied to each kWh of Default Service delivered to Customers under this rider.

(I) Increase (C) Change

Issued: October 16, 2017

Effective: December 1, 2017

 (\mathbf{C})

RIDERS

Rider I (continued)

 DS_{HPExp1}

- ^{p1} = An allocated portion of the incremental start-up costs incurred by the Company through May 31, 2015 in connection with the Company's Default Service Supply Plan to provide Default Service amortized over the twenty-four (24) month period ending May 31, 2017 including but not limited to:
 - Incremental start-up administrative costs including metering and billing costs incurred and other costs as necessary to provide service to retail Default Service Customers
 - Other start-up costs incurred to develop and implement the competitive bid process for the retail Default Service Supply Plan including legal, customer notice, and consultant fees

(C)

Interest shall be computed monthly for the over or under collection at the prime rate of interest for commercial banking, not to exceed the legal rate of interest, in effect on the last day of the month that the over and under collection occurs, as reported in the *Wall Street Journal*, to the effective month that the over collection is refunded or the under collection is collected and included in the determination of the monthly amortized amount.

DS_{HPExp2}

- = The cumulative costs to provide Hourly Pricing Default Service incurred by the Company through the end of the previous Default Service Quarter including but not limited to the following:
 - Payments made to winning bidders
 - Any PJM related charges other than Non-Market Based Services Transmission Charges identified in Rider J associated with the procurement of Hourly Pricing Default Service.
 - Net AEPS expenses and AEPS expenses incurred by the Company related to amendments to the AEPS Act and/or related laws or regulations occurring subsequent to the effective date of the Supplier Master Agreement for the Default Service Supply Plan.
 - An allocated portion of incremental administrative costs including metering and billing costs incurred and other costs as necessary to provide service to retail Default Service Customers
 - All contingency plan implementation costs incurred during the supply period
 - n allocated portion of other costs incurred to develop and implement the competitive bid process for retail Default Service including legal, customer notice, and consultant fees

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RIDERS

Rider I (continued)

- The cost of credit when the Company is considered by PJM to be the load serving entity
- Incremental costs, including but not limited to metering costs and billing expenses, incurred by the Company to expand Rate Schedule 35 to include Customers with a Kilowatt demand greater than or equal to 400 Kilowatts.
- PTC_{HPRev} = The cumulative revenues, excluding any revenues associated with the HP Uncollectibles Charge and applicable Pennsylvania gross receipts tax, through the end of the most recent Default Service Quarter billed to Hourly Pricing Default Service Customers under this rider including the applicable E_{HP} rates.

(C)

- DS_{HPInt} = The cumulative amount of carrying charges calculated on a monthly basis through the end of the most recent Default Service Quarter. Interest shall be computed monthly for the over or under collection at the prime rate of interest for commercial banking, not to exceed the legal rate of interest, in effect on the last day of the month that the over and under collection occurs, as reported in the *Wall Street Journal*, to the effective month that the over collection is refunded or the under collection is collected.
- $DS_{HPSales}$ = The Company's projected Hourly Pricing Default Service kWh sales to retail Customers for the three-month billing period that the E_{HP} rate will be in effect.

Gross Receipts Tax:

T = The Pennsylvania gross receipts tax rate in effect during the billing month expressed in decimal form as reflected in the Company's base rates.

General:

Each change in the E_{HP} rate as well as other rates within this rider will be filed with the Commission by the later of: (a) forty-five (45) days prior to the effective date of the rate changes; or (b) seven (7) days after the last supply auction. The Company shall file details in support of the revised rates.

At the conclusion of the duration of this reconciliation rider, the Company is authorized to recover or refund any remaining amounts not reconciled at that time under such mechanism as approved by the Commission.

Application of the E_{HP} rate shall be subject to annual review and audit by the Commission.

(D)

RIDERS

RIDER J

DEFAULT SERVICE SUPPORT RIDER

A Default Service Support ("DSS") Rate shall be applied to DSS Sales delivered by the Company to Delivery Service Customers under this rider as determined to the nearest one-thousandth of a dollar per kW NSPL. The DSS Rate shall be billed to Customers receiving Delivery Service from the Company under this rider. The DSS Rates shall be calculated according to the provisions of this rider. The DSS Rider shall be non-bypassable.

For service rendered during the DSS Computational Year, the DSS rate billed by Customer Class as follows:

Industrial Customer Class:

\$0.878 per kW NSPL

The DSS Rate shall be calculated annually in accordance with the formula set forth below:

DSS Rate = [NMB + RE + CEC] X [1 / (1-T)]

The components of the formula are defined below

Non-Market Based Services Transmission Charges

$NMB = (NMB_C - E) / S$

Where:

- NMB = The charge to be applied to Delivery Service Customers served under this rider for Non-Market Based Services Transmission Charge costs incurred by the Company.
- NMB_C = Forecasted NMB costs applicable to the Company's DSS Sales. Forecasted NMB costs shall include FERC approved costs for (i) PJM Regional Transmission Expansion Plan charges; (ii) PJM Expansion Cost Recovery; (iii) PJM charges for Reliability Must Run generating unit declarations and charges associated with plants deactivated after July 24, 2014, the date of the PaPUC approval of the Company's Default Service Program at Docket No. P-2013-2391378; (iv) historical tie line, generation, and retail customer meter adjustments; (v) Unaccounted for Energy; and (vi) any other FERC-approved PJM transmission charges billed to the Company by PJM that will not be reconciled through the Company's Price To Compare Default Service Rate Rider and/or Hourly Pricing Default Service Rider and are approved by the Commission for recovery under this rider. Forecasted NMB costs are allocated to each Customer Class based upon each Customer Class's contribution to the total Company Network Service Peak Load.

(D) Decrease

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Rider J (continued)

(C)

- E= The over or under-collection of the NMB_C that results from billing of the NMB during the DSS Reconciliation Year, including applicable interest. An over-collection is denoted by a positive E and an under-collection by a negative E. Interest shall be computed monthly for the over or under collection at the prime rate of interest for commercial banking, not to exceed the legal rate of interest, in effect on the last day of the month the over and under collection occurs, as reported in the *Wall Street Journal*, to the effective month that the over collection is refunded or the under collection is collected.
- S= The Company's total DSS Sales for the Industrial Customer Class projected for the DSS Computational Year

The NMB rates to be included in DSS Rates are as follows:

Industrial Customer Class:

\$0.826 per kW NSPL

Retail Enhancements

$$RE = [(RE_c - E) / S]$$

Where:

- RE = The charge to be applied to Delivery Service Customers served under this rider for the Retail Enhancement Costs incurred by the Company.
- REc = The Retail Enhancement Costs incurred by the Company to cover programming expenses and implementation costs associated with competitive market enhancements approved by the Commission.

(C)

E = The over or under-collection of the RE_C that results from billing of the RE during the DSS Reconciliation Year, including applicable interest. An over-collection is denoted by a positive E and an under-collection by a negative E. Interest shall be computed monthly for the over or under collection at the prime rate of interest for commercial banking, not to exceed the legal rate of interest, in effect on the last day of the month the over and under collection occurs, as reported in the *Wall Street Journal*, to the effective month that the over collection is refunded or the under collection is collected.

(C) Change(D) Decrease

Issued: April 28, 2017

Effective: June1, 2017

(D)

Electric-Pa. P. U. C. No. 38 (Supp. 17) Second Revised Page 27A Superseding First Revised Page 27A

RIDERS

Rider J (continued)

S = The Company's total DSS Sales per Customer Class to Delivery Service Customers projected for the DSS Computational Year.

The RE rates by Customer Class to be included in DSS rates are as follows:

Industrial Customer Class:

\$0.000 per kW NSP

Customer Education Charges

$CEC = (CEC_C - E) / S$

Where:

- CEC = The charge to be applied to Delivery Service Customers served under this rider for Customer Education Charges incurred by the Company.
- CEC_{C} = Customer Education costs for the specific Customer Class to cover customer education costs associated with competitive market enhancements approved by the Commission, excluding costs being recovered by the Consumer Education Program Cost Recovery Rider.

(C)

- E = The over or under-collection of the CEC_C that results from the billing of the CEC during the DSS Reconciliation Year, including applicable interest. An over-collection is denoted by a positive E and an under-collection by a negative E. Interest shall be computed monthly for the over or under collection at the prime rate of interest for commercial banking, not to exceed the legal rate of interest, in effect on the last day of the month the over and under collection occurs, as reported in the *Wall Street Journal*, to the effective month that the over collection is refunded or the under collection is collected.
- S = The Company's total DSS Sales per Customer Class to Delivery Service Customers projected for the DSS Computational Year.

The CEC rates by Customer Class to be included in DSS rates are as follows:

Industrial Customer Class:

\$0.000 per kW NSPL

RIDERS

Rider J (continued)

Gross Receipts Tax

T = The Pennsylvania gross receipts tax rate in effect during the billing month expressed in decimal form as reflected in the Company's base rates.

All capitalized terms not otherwise defined in this Rider shall have the definitions specified in Section 2 of this Tariff. For purposes of this Rider, the following additional definitions shall apply:

- 1. DSS Sales The kWh or kW NSPL delivered during a billing month to all Delivery Service Customers, as applicable to each Rate Schedule billed under the DSS Rider.
- 2. DSS Computational Year The 12-month period from June 1 through the following May 31.
- 3. DSS Reconciliation Year The 12-month period ending March 31 immediately preceding the DSS Computational Year.
- 4. Initial DSS Period the period from the effective date through May 31, 2015 that the DSS Rider is in effect. Thereafter, the DSS Computational Year will apply.

The Company shall recalculate its DSS Rates annually and, based on that recalculation, shall file with the Commission, by May 1st of each year, revised Rates to become effective on June 1st of the same year unless the Commission orders otherwise. The revised DSS rates shall remain in effect for a period of one year, unless revised on an interim basis subject to the approval of the Commission. Upon determining that its DSS Rates, if left unchanged, would result in material over or under-collection of all costs incurred, or expected to be incurred, for DSS during the then current DSS Reconciliation Year, the Company may request that the Commission approve one or more interim revisions to its DSS Rates to become effective thirty (30) days from the date of filing, unless the Commission orders otherwise.

At the conclusion of the period during which this DSS Rider is in effect, the Company shall be authorized to recover or refund at any time, any remaining differences between recoverable costs and revenues billed under this rider by charges or credits to be applied to customer's bills under such mechanism the Commission may approve, but uncollectibles, which are non-reconcilable under the terms of this rider, shall not be included in the final reconciliation.

Application of the DSS rates shall be subject to annual review and audit by the Commission.

(C) Change

(C)