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COMMONWEALTH OF PENNSYLVANIA
(Public Utility Commission)

GREENFIELD MANUFACTURING COMPANY, Complainant,	:	Docket No.:
vs.	:	C-2024-3050725
PECO ENERGY COMPANY, Respondent.	:	

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TELEPHONIC HEARING
Judge's Chambers
State Office Bldg.
801 Market Street
Philadelphia, PA 19107

Wednesday, February 25, 2026
Met, pursuant to notice, at 10:01 a.m.

BEFORE: THE HONORABLE MARTA GUHL
Administrative Law Judge

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Docket No.: C-2024-3050725
Hearing Date: February 25, 2026

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BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Greenfield Manufacturing Company, Complainant,	:	
	:	Docket No. C-2024-3050725
v.	:	
PECO Energy Company, Respondent.	:	

DIRECT TESTIMONY
OF LEONARD GREENFIELD
ON BEHALF OF GREENFIELD MANUFACTURING COMPANY

Greenfield Statement No. 1
January 9, 2026

Q. STATE YOUR NAME FOR THE RECORD PLEASE?

A. Leonard Greenfield.

Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

A. I am an owner of Greenfield Manufacturing.

Q. WHAT ARE YOUR DUTIES AS THE PRESIDENT OF GREENFIELD INDUSTRIES?

A. I am responsible for the engineering and technical side of the business along with sales.

Q. DO YOU HAVE ANY SPECIALIZED EDUCATION OR TRAINING THAT WOULD ASSIST YOU IN PREPARING YOUR TESTIMONY?

A. Yes, I have a Masters of Engineering in Chemical Engineering from Rensselaer Polytechnic Institute, and a Bachelor's of Science in Chemical Engineering from Rensselaer as well.

Q. IS GREENFIELD INDUSTRIES A CUSTOMER GENERATOR?

A. Yes.

Q. DOES GREENFIELD INDUSTRIES ENGAGE IN NET METERING?

A. Yes.

Q. PLEASE DESCRIBE THE SYSTEM THAT YOU USE TO GENERATE ELECTRICITY AS A CUSTOMER-GENERATOR?

A. We have a 1320 kWac roof top solar array.

Q. PLEASE EXPLAIN HOW NET METERING WORKS FOR GREENFIELD MANUFACTURING?

A. We are in the High-Tension Rate Class (HT) and a customer in Procurement Class 3 according to PECO's tariff. Because we are in Class 3, our usage is netted against our production on a cash basis every hour, using the day ahead LMP as the price. In general, the methodology is: net use multiplied by the day ahead LMP per hour plus the additional costs associated with Generation, transmission, and distribution. That is how we are supposed to be credited for excess generation.

Q. WHO PERFORMS THESE CALCULATIONS?

A. PECO performs them, and the results are supposed to show on my bill, hopefully in a way that I can tell how I was charged or credited.

Q. WHAT PROMPTED YOU TO FILE A FORMAL COMPLAINT AGAINST PECO?

A. We have had problems with PECO's billing since we began net metering. A substantial number of bills were either incorrect or did not provide enough information for us to understand what we were being charged or credited for. I finally filed this complaint when PECO put me in the untenable position of being bounced between two customer service departments in PECO, neither of whom could help me because it was supposedly the other department's job. A few brief examples of my billing saga are:

- When we installed the first part of our solar system at our Bustleton Avenue facility (May 2021), PECO installed the meters incorrectly. The incorrect information caused problems with PECO's billing system. Rather than fix it, however, PECO began to estimate my solar output, without telling me that they were doing so. I

was able to discern this because my day ahead LMP pricing compensation didn't look right. I analyzed a few months of it and found the discrepancy, concluding that the bills had been estimates for months. I charted the energy usage and power usage chart on the PECO website for the meters connected to our solar output, and the data produced perfect sine waves – despite variable weather. The mistake was obvious because they didn't have the power reduced to zero in the overnight hours when there is no sun. Instead, PECO's data showed that our system (composed solely of solar panels) was "generating" energy overnight. Because the hourly rates change significantly over the 24 hours in a day; PECO's sine waive method was in effect moving portions of my generation, out of the daytime hours and to evening or night-time hours when the LMP is typically lower than during the day. It took effort on my part, but I finally was able to convince PECO that its estimate was not the same as real billing, and they eventually stopped the estimated billing.

- In another incident, we lost power for a few days (1/9/2024-1/11/2024) and PECO estimated that we still used power and just charged us even though PECO knew we weren't using power because they told us that we didn't have power. Because PECO wasn't able to give us a restoration estimate closer than 7 days, and because it was the middle of winter, we and the others on our line needed to bring in generators to keep the building partially powered so we wouldn't have sprinkler pipes freeze and burst. This cost us around $16,000 plus the cost of the diesel fuel. We were never re-imbursed for the extra costs despite several requests.
- For an extended period, PECO was not crediting the price to compare adder in the manner they are supposed to, and they had to refund me all the money they forgot

to pay. Also, because PECO's billing system was unable to correctly render a bill, it had to be manually added up once a year, and then PECO issued the refund as a separate check. This was the situation from May 2021 until February 2025 when the new billing system began to cause other issues.

- Our metering quite frequently was estimated because of many metering issues. We had frequently had no account manager and the folks in the Small Business Section would not help us. This was the norm from 2021 into 2024.
- When PECO recently "Upgraded" its billing system, the system couldn't generate a bill for me for several months. Without the bill, I was not receiving the proper compensation that I was due for net metering for almost a full year.
- All the credits are now combined under the heading of "Renewable Energy Credit" with no itemization. This makes it difficult to find errors, which is not acceptable based on the history. It makes verifying PECO's math a forensic accounting job requiring significant time and effort on my part.

Q. **WHAT HAS PECO DONE TO ADDRESS YOUR CONCERNS?**

A. When we noticed that our electricity bill did not look like we were being compensated correctly and after a few years of not being able to get anyone at PECO to address the situation, we were re-assigned an account manager who was unable to resolve the issues or answer questions about the billing line items. It was that account manager who suggested that we file a formal complaint with the PUC.

Q. DOES YOUR GENERATION OFFSET ALL OF THE ENERGY THAT YOU CONSUME?

A. Yes. We offset what we use, and we produce excess that we sell to PECO based on the net metering prices as written by PECO and the PUC.

Q. HOW MUCH DOES NET METERING REDUCE YOUR OVERALL ELECTRIC BILL ON A MONTHLY BASIS?

A. Because we are a net generator, we typically should receive a credit every month.

Q. PLEASE EXPLAIN THE BASIS OF YOUR COMPLAINT.

A. As described generally above, our complaint is: 1) that PECO is not properly compensating us for the electricity that we generate and send to PECO's distribution system. Specifically, we are not being compensated for Distribution ("D"), Energy Efficiency ("EE") and Non-Bypassable Transmission ("NBT") charges. 2) PECO also has been unable to explain the method they use to come up with these energy compensation prices that we believe are likely to be incorrect, but because PECO is unable to disclose their method of calculation, we cannot verify. The main items being Peak Load contribution ("PLC"), but also includes EE, NBT, and transmission ("T") fees.

Q. WHAT DO THE COMMISSION'S REGULATIONS AND THE STATUTES SAY ABOUT THE COMPENSATION THAT YOU ARE ENTITLED TO?

A. The Alternative Energy Portfolio Standards Act, 73 P.S. § 1648.5, requires that we "receive full retail value for all generation on an annual basis". The regulations seek to define what that means. The regulations are found at 52 Pa Code § 75.13.

Q. AND WHAT DO THE COMMISSIONS REGULATIONS SAY?

A. Paragraph D states:

"(d) An EDC and DSP shall credit a customer-generator at the full retail kilowatt-hour rate, which shall include generation, transmission and distribution charges, for each kilowatt-hour produced by a Tier I or Tier II resource installed on the customer-generator's side of the electric revenue meter, up to the total amount of electricity used by that customer during the billing period. If a customer-generator supplies more electricity to the electric distribution system than the EDC and DSP deliver to the customer-generator in a given billing period, the excess kilowatt hours shall be carried forward and credited against the customer-generator's kilowatt-hour usage in subsequent billing periods at the full retail rate. Any excess kilowatt hours that are not offset by electricity used by the customer in subsequent billing periods shall continue to accumulate until the end of the year."

Q. DO YOU BELIEVE THAT PECO IS COMPENSATING YOU ACCORDING TO WHAT THE REGULATIONS REQUIRE?

A. I do not believe that PECO is currently compensating us correctly, if at all, for Distribution, Energy Efficiency, NBT charges, or for Peak load contribution. We believe this inaccuracy has been ongoing.

Q. WHERE IS PECO GETTING IT WRONG?

A. PECO claims they don't have to compensate for the EE, NBT, or distribution because they are charged to customers on the power (KW) basis and not Energy basis (kWh). We have determined that PECO does compensate for PLC and transmission on a per kWh basis,

despite previous discussions with PECO where they deny that they compensate for it. (See **Exhibit LG-1** – PECO's response to Greenfield Set I, No. 1) PECO is required to compensate for those 4 items as the AEPS requires and should have a method for calculating their values on a per kwh basis as they do for the price to compare adder for wholesale customers. Currently both the PLC portion of the bill, and the EE and NBT portion of the bill are based on the customer's Peak load contribution, which in our case is negative.

I am advised by Counsel that the Commission's regulations, and thus, PECO's tariff, interpret the word "energy" in the AEPS Act to mean only kWh charges, not kW charges, and that this reading is not supported in the statute. Since this is a legal argument, we will save it for the brief.

Q. DO YOU HAVE AN EXAMPLE THAT SHOWS HOW YOU ARE NOT BEING CREDITED CORRECTLY?

A. Yes, see **Exhibit LG-2**. **Exhibit LG-2** shows two examples of our bill from PECO, one before we installed the solar panels (page 1), and one after (page 2) our solar installation was up and running. There are a number of errors and inconsistencies, for example:

a. Distribution is being *charged* in both bills. The rules state it should be *compensated* once we began to produce energy. Even if one disagrees with our legal position, the distribution associated with our consumption should be netted against our production, and PECO does not appear to be doing that.

b. EE & NBT are being zeroed out instead of credited.

c. PLC is also being zeroed out but added back in the Renewable Energy Credit line but with no explanation of how PECO calculated the value per kwh.

d. Transmission charges are being listed but also credited but with no explanation of how PECO arrived at the value per kwh.

Q. PLEASE EXPLAIN USING EXHIBITS LG-2 AND LG-3 HOW YOU ARE CREDITED FOR YOUR GENERATION?

A. It appears that my current bill causes a problem in the PECO billing system and PECO's system cannot generate a page with the detailed billing, so this information in **Exhibit LG-3** comes from my current account manager sending me an email with spreadsheet screen shots in it. These are all in **Exhibits LG-2 & LG-3**.

1. PECO credits me using the Renewable Energy Credit as shown in the middle of **Exhibit LG-2**, page 2. The "Renewable Energy Credit" looks like this:

Renewable Energy Credit -3952.01

2. PECO them combines the Renewable Energy Credit with the amount of power I used and charges me for distribution, electricity I use, and a customer charge. The total renewable energy credit details are in the multi-colored chart at the bottom of page 2 of **Exhibit LG-2**.

3. If you look at **Exhibit LG-3**, notice the highlighted sections for Distribution, EE, NBT, PLC, and Transmission.

Q. IS THERE SOME DOCUMENT THAT SHOWS THE UNDERLYING INFORMATION?

A. Yes, that would also be **Exhibit LG-3**, which shows all the underlying charges and would provide me with some idea of how PECO was charging me. I say "was" because PECO no longer will provide this to me. I point out that item 29, Peak load contribution, is zero. But, at item 46, there is a credit for peak load contribution and item 45 is what appears to be a credit for transmission charges. It is not clear if these charges are "rolled up" into the Renewable Energy Credit or how the charges are accounted for. The included emails with PECO personnel (**Exhibit LG-4**) demonstrate a few things. First, it shows that PECO customer service people were willing to provide me with a monthly spreadsheet so I could see what we were being charged for, and that since PECO stopped providing the spreadsheet they would send screen shots from their system. It also demonstrates that PECO could not or would not tell me how it calculates the renewable energy credit (REC), or the prices used for transmission or peak load contribution. I have yet to receive that information after over a year of asking.

Q. DOESN'T PECO'S TARIFF EXPLAIN HOW PECO IS TO CALCULATE THESE ITEMS?

A. No. One would think that PECO would have something for this situation that reflects the documentation of PJM Attachment M-2 (PECO) in **Exhibit LG-5**. The instructions state that the reading of power consumed during 5 capacity peak hours over the year are averaged to calculate the peak load contribution (PLC) which PECO then uses to multiply by their fee per KW of PLC for the PLC and EE&NBT portion of the bill. My situation has a negative meter reading due to net generation at those periods. Doing the basic arithmetic

my PLC should be a negative. Multiplying the fees per KW by the negative PLC value yields a negative number which should result in a credit. Instead they conjure a per kWh rate that is so low that it's not even close to what compensation would be in the above listed method that they use to charge customers.

PECO's published rate and tariff with the PUC is functionally inoperable because in RS-2 Section 5 they state that distribution credits are done in KWHs for the rate class I am in but since they bill me by KW those end up not being applied. Effectively the credits for distribution are created in "funny money" that worthlessly accumulates. (**Exhibit LG-7**).

Q. WHAT TARIFF DO YOU REFER TO?

A. The PJM tariff that applies to PECO's Peak Load Contribution. It is attached as **Exhibit LG-5** & RS-2 in **Exhibit LG-7**.

Q. WHAT DO THE RESULTS OF THESE CALCULATIONS LOOK LIKE?

A. **Exhibit LG-6** shows the coincident peaks for all the PJM zones. Based on my own meter readings from PECO's online date my actual PLC number should be -471 kW, instead of zero this year for example. On a monthly basis the PLC compensation rate should be the PLC rate (based on numbers from **Exhibit LG-4** was $10.36731/KW) and multiply it by -471kW yielding a credit of $4,882.87. For the EE & NBT, using the -471KW that gets multiplied by the EE&NBT Rate of $2.51/kW for a monthly credit of $1,182.21.

2025	Hour Start	PJM (kW)	PECO (kW)	GFM (kW)
6/23/2025	17:00	160,709,000	8,097,200	-492.92
6/24/2025	17:00	160,688,000	8,475,200	-298.08
6/25/2025	14:00	152,963,000	8,231,600	-632.16

7/28/2025	17:00	151,584,000	7,751,100	-469.44
7/29/2025	17:00	156,094,000	8,255,200	-465.12
		156,407,600	8,162,060	-471.54

Q. WHAT DOES PECO'S TARIFF CONTRIBUTE TO THIS CONVERSATION?

A. PECO's Tariff for net metering is attached as **Exhibit LG-7**. It shows that they purposely credit distribution incorrectly, so I am not compensated for that part of my bill. The Unusable Banked distribution credits are shown on the "Message Center" part of the bill.

Meter Information

Read Dates	Meter Number	Load Type	Reading Type	Meter Reading Previous	Meter Reading Present	Difference	Multiplier X	Total Usage
10/15-11/13	019474971	Out Without Flow Through	Tot kWh	Actual	Actual	14.4071	4800	69154
10/15-11/13	020227585	Out Without Flow Through	Tot kWh	Actual	Actual	12.7745	1920	24527
10/15-11/13	022020354	General Service	GS Off Pk kW	Actual	Actual	0.0190	4800	91.20
10/15-11/13	022020354	General Service	On Pk kW	Actual	Actual	0.0200	4800	96.00
10/15-11/13	022020354	General Service	Pk kW	Actual	Actual	0.0200	4800	96.00
10/15-11/13	022020354	General Service	Tot kWh	Actual	Actual	2.4446	4800	11734
10/15-11/13	022020356	General Service	GS Off Pk kW	Actual	Actual	0.0130	1920	24.96
10/15-11/13	022020356	General Service	On Pk kW	Actual	Actual	0.0140	1920	26.88
10/15-11/13	022020356	General Service	Pk kW	Actual	Actual	0.0140	1920	26.88
10/15-11/13	022020356	General Service	Tot kWh	Actual	Actual	4.5422	1920	8721

Distribution kW - **Measured : 123** Transmission kW - **Measured : 123** Generation kW - **Measured : 123** **Total kWh Used: 20,455**

ELECTRIC HIGH TENSION SERVICE 100KW-500KW

Service Period 10/15/2025 to 11/13/2025 - 29 days

PECO ELECTRIC DELIVERY			**$1,229.37**
Customer Charge			383.13
Distribution Charges	123 kW	X 7.12000	875.76
High Voltage Discount	123 kW	X -0.24000	-29.52
PECO ELECTRIC SUPPLY			**-$4,623.68**
Administrative Charge	20,454 kWh	X 0.00003	0.61
Generation Charges	20,454 kWh		1,015.83
Ancillary Charge	20,454 kWh	X 0.00533	109.02
Purchased Generation Adj.	20,454 kWh	X 0.00234	47.86
Working Capital Charge	20,454 kWh	X 0.00035	7.16
Transmission Charges	123 kW	X 1.69000	207.87
Renewable Energy Credit			-6,012.03
TAXES & FEES			**$20.95**
Sales Tax			20.95
Total Current Charges			**-$3,373.36**

Shopping Information Box

When shopping for a competitive electric/natural gas supplier, please provide the following:

Electric Choice ID: 9693316266
Electric Rate: Electric High Tension Service 100kW-500kW

If you are purchasing the energy you use from a competitive supplier, it is important to understand the terms of your contract and expiration date.

Message Center

From PECO:
5.90% estimated Gross Receipt Tax of $-200.26 included in new charges.

Your estimated electric price to compare adder is $0 per kWh, which includes ancillary charges and the purchased generation adjustment but excludes energy and capacity. This may change in March, June, September and December. For more information and supplier offers visit **PAPowerSwitch.com**.

Your Previous Banked Distribution kWh is 722683. Your Current Change in Banked Distribution kWh is 73226. Your current Adjustment to Banked Distribution kWh due to settlement is 0. Your Remaining Banked Distribution kWh is 795910.

Q. YOU SAID EARLIER THAT YOU WERE IN RATE CLASS HT. WHAT DOES THAT TARIFF SAY ABOUT THE CALCULATIONS?

A. PECO's HT tariff is attached as **Exhibit LG-8**. It says that my distribution cost is calculated by a peak power use (KW) for the month. Not Energy (KWH). It also shows the rate for the EE (energy efficiency charge) and distribution charge.

Q. ARE THERE ANY OTHER PORTIONS OF PECO'S TARIFF THAT ARE RELEVANT?

A. Yes, pages 40-42 (**Exhibit LG-9**) states how other fees are calculated that make up the generation supply cost adder which is for customers that are on hourly rates is added to the day ahead LMP rate to calculate a rolled-up price per KWH similar to what a residential account would see as the "price to compare".

Q. YOU HAVE ALSO INCLUDED EXHIBIT 10 AND EXHIBIT 11. WHAT DO THEY DEMONSTRATE?

A. They show how PECO calculates the generation adders for various rate classes including my own (HT procurement class 3) and what it constitutes. This per KWH rate is added to the day ahead LMP to get the hourly rate at which I am compensated for the Supply portion of my bill. It also shows the transmission charge on a per kwh rate but with no explanation of how it is calculated from the per KW of PLC rate they charge customers. Notably, it also shows what is missing: PLC compensation.

Q. EXHIBIT LG-12 APPEARS TO BE A LISTING OF YOUR PRODUCTION – CAN YOU EXPLAIN WHAT THIS IS?

A. This is an excel spreadsheet that PECO would send me while the new billing system was being figured out by them. It was what I had to sift through to determine the extent of the problems PECO was having. We used to receive one of these a month since they were unable to generate a bill (the pages that would normally have meter readings and line items were just blank).

Q. HAVE THERE BEEN ANY RECENT BILLING ISSUES?

A. Yes. Within the past two months I have received several bills, attached as **Exhibit LG-13**. It started with a bill showing more than $29,000 in charges and claiming that I owe over $13,000. That was on December 13, 2025. On December 15, I received another bill, showing that I owed almost $7,000. Then, on December 16, I received a bill showing new charges minus $2,727 and showing no payment due. Then on December 18, 2025, I received another bill showing new charges of $628.06 but stating that I did not owe anything. I received a bill dated December 26, showing new charges of $525.51 but again stating that I owe nothing. Finally, I received a bill dated December 30, 2025, claiming new charges of $540.67, but also showing that no payment is due. A number of the bills show usage data suggesting that the bills were from August or September, but it remains unclear what PECO thinks I owe and how that squares with the fact that in most months, even in the winter, I receive a credit and my bills do not display a balance owed. I have discussed it with my current account representative, and it appears that PECO may have fixed whatever was wrong, but I will need to wait for my next bill to make sure things are

correct. Regardless, it has been a month of not receiving the credit which I believe I am owed and another example of PECO's ongoing inability to correctly bill me.

Q. DO YOU BELIEVE THAT PECO IS BILLING YOU CORRECTLY – FOR THE RIGHT COMPONENTS OR AT THE CORRECT AMOUNTS? EXPLAIN.

A. No. I believe that their method of bypassing distribution compensation by generating "Funny Money" credit is not in following with the law. They have conjured their own method of compensating for PLC from the ether and are unable to or unwilling to explain how it came to be. Their Zeroing out of the negative PLC value, as calculated by the PJM M-2, flies in the face of basic arithmetic and means that they haven't compensated me for EE or NBT in the distribution portion of my bill at all and are not properly compensating me for PLC.

Q. WHAT DO YOU WANT THE COMMISSION TO DO IN THIS MATTER?

A. I would like the Commission to force PECO to follow the rules that they have flaunted and properly compensate me, both going forward and retroactively. This includes compensating me properly for distribution, transmission, PLC, and EE&NBT in the past 4 and a half years and going forward. I would also like PECO to compensate me for the costs that I have incurred trying to fix their problem with my bills. This process has been dragged out over years by PECO purposely acting in what appears to me to be bad faith, by placing my account in limbo where no one would address any issue. It has required me to contact government officials for assistance, becoming an expert in utility billing rules in Pennsylvania, and tons of my time dissecting the constant errors in my bills for almost 5 years now.

Q. DOES THAT COMPLETE YOUR DIRECT TESTIMONY?

A. Yes. However, I reserve the right to supplement this testimony as may be appropriate.

LIST OF EXHIBITS

LABEL	DESCRIPTION
Exhibit LG-1	PECO's response to Greenfield Set I, No. 1
Exhibit LG-2	Examples of our bill from PECO
Exhibit LG-3	Examples of our bill from PECO
Exhibit LG-4	Emails from PECO personnel
Exhibit LG-5	Documentation of PJM Attachment M-2 (PECO)
Exhibit LG-6	Coincident peaks for all the PJM zones
Exhibit LG-7	PECO's Tariff for net metering
Exhibit LG-8	PECO's HT tariff
Exhibit LG-9	Fees calculated that make up the generation supply cost adder
Exhibit LG-10	Price to Compare (PTC) Table Disclaimer
Exhibit LG-11	Price to Compare (PTC) Sample Calculation Disclaimer
Exhibit LG-12	PECO excel spreadsheet
Exhibit LG-13	Bills from PECO

EXHIBIT LG-1

PECO Energy Company

Docket No. C-2024-3050725

Greenfield Manufacturing Company
vs.
PECO Energy Company

Response of PECO Energy Company
To Interrogatories of
Greenfield Manufacturing Company

Response Date: June 23, 2025

GRE-1

Explain in detail, and provide an example of, how PECO calculates the dollars per kWh rate for transmission and PLC based on the per kW rates established in its tariff for commercial and industrial customers.

a. What distribution charges including EE and NBT does PECO credit when netting consumption of electricity versus generation as required by 52 Pa. Code § 75.13(d)?

b. List each charge element for which PECO credits customer generators under 52 Pa. Code § 75.13(d).

RESPONSE:

PECO does not calculate kWh-based rates as described above when billing consumption for commercial and industrial customers. PECO does calculate kWh-based rates for use in determining the amount of renewable energy credit to provide to net metered commercial and industrial customers.

Transmission Service Charge (TSC), C&I Rates GS and Rate HT/PD/EP:
PECO calculates a kWh-based rate associated with its Price To Compare, as follows:

1. Using data from the Company's TSC filing for the associated billing months, calculate the projected TSC revenues for the associated TSC pricing period (such as June thru November) by multiplying the TSC rate for that period by the kW sales projected for that same period.
2. Divide the above calculated TSC revenues by the projected kWh sales at the time for that same customer group.
3. Apply the resulting kWh-based rate for each month of the associated TSC pricing period.

An example follows:

June 2023 through November 2023, Rates HT/PD/EP:

TSC per-kW rate as of 6/1/2023:	$1.97/kW
Projected HT/PD/EP default kW sales, 6/2023-11/2023:	1,316,006 kW
Resulting TSC projected revenues:	$2,592,532
Projected HT/PD/EP default kWh sales, 6/2023-11/2023:	487,093,934 kWh
Resulting monthly TSC rate per kWh for TSC period:	$0.00532/kWh

Generation Supply Adjustment (GSA) for C&I Procurement Class 3/4, Loads >100 kw:
PECO calculates a kWh-based rate for the PLC-based PJM Reliability Pricing Model component of this rate by dividing the total actual default service capacity revenues collected by PECO from the customer's rate class and procurement class during the associated GSA pricing period (such as March thru May) by the total kWh sales to that same rate class and procurement class within that same GSA pricing period. PECO then applies the resulting kWh-based rate for each month of the associated GSA pricing period.

An example follows:

September 2023 – November 2023, Rates HT, Procurement Class 3/4:

Actual Rate HT 3/4 Capacity Revenue:	$564,834
Actual HT 3/4 GSA kWh sales:	138,186,880 kWh
Resulting monthly PLC-Based rate per kWh for GSA period:	$0.004087/kWh

PECO's GSA rate for commercial and industrial customers in Procurement Class 2 (loads <=100kW) is priced per kWh and does not include a PLC-based component.

Prior to 2024, PECO executed the above calculations and billing manually, outside of its previous billing system. PECO is currently verifying the logic and pricing that have been used since the implementation of its new billing system in early 2024.

a. Customer billing is based on net electricity usage from the grid, calculated by subtracting any excess generation from total consumption. This net usage is multiplied by the Variable Distribution Rate.
    - For Rates PD, HT, and EP, the Variable Distribution Rate currently includes the Company's base rate, Incremental COVID-19 Uncollectable Surcharge ("ICUS"), Fiber Affiliate Revenue Surcharge ("FARS"), and Nuclear Decommissioning Surcharge Adjustment ("NDCA"). It does not include the PLC-based Energy Efficiency surcharge ("EEPC") or the PLC-based Non-Bypassable Transmission Charge ("NBT").
    - For Rate GS, the Variable Distribution Rate currently includes the Company's base rate, NBT, ICUS, FARS, and NDCA. It does not include the kWh-based EEPC.

b. The charge elements displayed on a commercial and industrial customer's bill vary based on several factors, including rate class, procurement class, and the customer's choice of either default service or an alternative retail Electric Generation Supplier ("EGS"). For this response, the Company lists the charge elements credited for a Rate HT customer in Procurement Class 3/4 receiving default service:

- Generation Supply Adjustment ("GSA")
    - PJM Hourly Day-Ahead Locational Marginal Pricing (LMP), including line losses and Gross Receipts Tax
    - PJM Reliability Pricing Model charge
    - Hourly Pricing Adder components (includes administrative cost, ancillary service charge, E-Factor aka Purchased Generation Adjustment, and working capital)
- Transmission Charges (TSC)
- Variable Distribution Charge (as described in subpart "a" above)

EXHIBIT LG-2

Electric High Tension Service 100kW-500kW

Service Period 04/15/2021 to 05/11/2021 - 26 days

PECO ELECTRIC DELIVERY		**$1,239.68**
Customer Charge		378.26
Distribution Charges	150 kW X 4.89000	733.50
Distribution Charges	30,649 kWh X -0.00060	-18.39
Distribution System Improvement Charge		8.60
Energy Eff & Nonbypassable Trans	71 kW X 2.21000	156.91
High Voltage Discount	128 kW X -0.15000	-19.20
ELECTRIC SUPPLY		**$1,623.66**
Administrative Charge	30,649 kWh X 0.00006	1.84
Generation Charges	30,649 kWh	765.46
Peak Load Contribution	71 kW X 7.32881	520.35
Ancillary Charge	30,649 kWh X 0.00519	159.07
Purchased Generation Adj.	30,649 kWh X -0.00018	-5.52
Working Capital Charge	30,649 kWh X 0.00019	5.82
Transmission Charges	128 kW X 1.38000	176.64
TAXES & FEES		**$22.66**
State Tax Adjustment		-0.25
Sales Tax		22.91
Total Current Charges		**$2,886.00**

Exhibit 2, 2 of 2

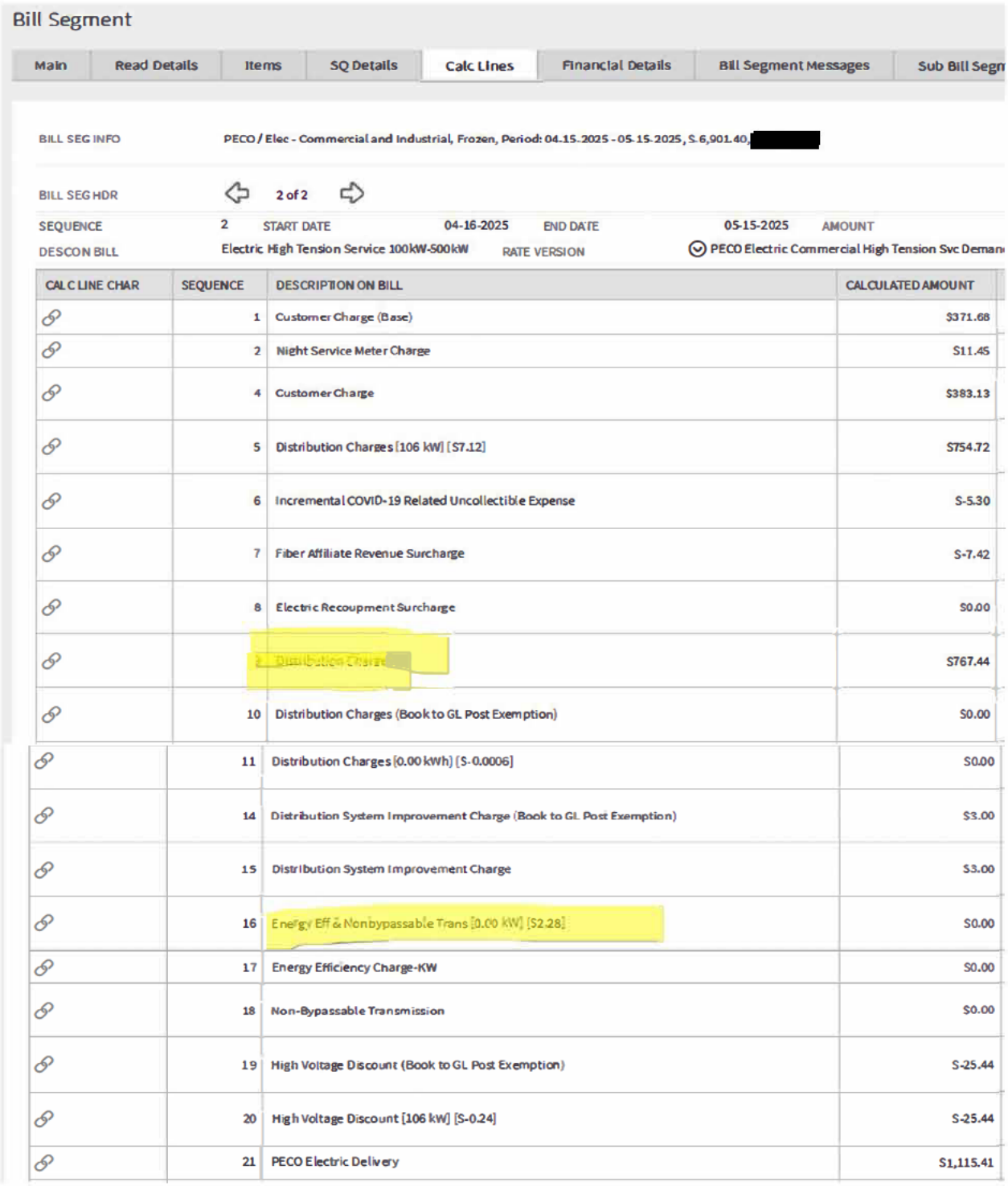
ELECTRIC HIGH TENSION SERVICE 100KW-500KW

Service Period 01/13/2025 to 02/12/2025 - 30 days

PECO ELECTRIC DELIVERY			**$1,119.28**
Customer Charge			383.12
Distribution Charges	107 kW	X 7.12000	761.84
High Voltage Discount	107 kW	X -0.24000	-25.68
PECO ELECTRIC SUPPLY			**-$1,084.15**
Administrative Charge	27,054 kWh	X 0.00002	0.54
Generation Charges	27,054 kWh		2,341.28
Ancillary Charge	27,054 kWh	X 0.00931	251.87
Purchased Generation Adj.	27,054 kWh	X 0.00488	132.02
Working Capital Charge	27,054 kWh	X 0.00035	9.47
Transmission Charges	107 kW	X 1.24000	132.68
Renewable Energy Credit			-3,952.01
TAXES & FEES			**$31.89**
Sales Tax			31.89
Total Current Charges			**$67.02**

Excess Generation credit			
Administrative Credit	(156,064)	$0.00003	$ (4.68)
Generation Credit	-	LMP	$ (4,653.45)
Ancillary Services Credit	(156,064)	$0.00880	$ (1,373.36)
Purchased Generation Adj. Credit	(156,064)	$0.00196	$ (305.89)
Working Capital Credit	(156,064)	$0.00035	$ (54.62)
Transmission kWh Credit - Must verify	(156,064)	$0.00344	$ (536.86)
PLC kWh - Must verify	(156,064)	$0.01263	$ (1,971.09)
Total Credit Calculated			$ (8,899.95)
CC&B calculated REC			$ (8,899.95)
Difference			$ (0.00)

EXHIBIT LG-3



Bill Segment

Main | Read Details | Items | SQ Details | Calc Lines | Financial Details | Bill Segment Messages | Sub Bill Segm

BILL SEG INFO PECO / Elec - Commercial and Industrial, Frozen, Period: 04-15-2025 - 05-15-2025, $ 6,901.40, [redacted]

BILL SEG HDR 2 of 2

SEQUENCE 2 START DATE 04-16-2025 END DATE 05-15-2025 AMOUNT

DESCON BILL Electric High Tension Service 100kW-500kW RATE VERSION PECO Electric Commercial High Tension Svc Demand

CALC LINE CHAR	SEQUENCE	DESCRIPTION ON BILL	CALCULATED AMOUNT
	1	Customer Charge (Base)	$371.68
	2	Night Service Meter Charge	$11.45
	4	Customer Charge	$383.13
	5	Distribution Charges [106 kW] [$7.12]	$754.72
	6	Incremental COVID-19 Related Uncollectible Expense	$-5.30
	7	Fiber Affiliate Revenue Surcharge	$-7.42
	8	Electric Recoupment Surcharge	$0.00
		[illegible]	$767.44
	10	Distribution Charges (Book to GL Post Exemption)	$0.00
	11	Distribution Charges [0.00 kWh] [$-0.0006]	$0.00
	14	Distribution System Improvement Charge (Book to GL Post Exemption)	$3.00
	15	Distribution System Improvement Charge	$3.00
	16	Energy Eff & Nonbypassable Trans [0.00 kW] [$2.28]	$0.00
	17	Energy Efficiency Charge-KW	$0.00
	18	Non-Bypassable Transmission	$0.00
	19	High Voltage Discount (Book to GL Post Exemption)	$-25.44
	20	High Voltage Discount [106 kW] [$-0.24]	$-25.44
	21	PECO Electric Delivery	$1,115.41

Exhibit 3, 1 of 3

	22	Administrative Charge (Book to GL Post Exemption)	$0.52
	23	Administrative Charge [17,179 kWh] [$0.00003]	$0.52
	24	Generation Charges	$499.83
	25	Line Loss for Energy Supply	$12.50
	26	GRT for Energy Supply	$32.12
	27	Generation Charges [17,179 kWh]	$544.45
	28	Peak Load Contribution (Book to GL Post Exemption)	$0.00
	29	Peak Load Contribution [0.00 kW] [$2.3171]	$0.00
	30	Ancillary Charge (Book to GL Post Exemption)	$151.18
	31	Ancillary Charge [17,179 kWh] [$0.0088]	$151.18
	32	Purchased Generation Adj. (Book to GL Post Exemption)	$33.67
	33	Purchased Generation Adj. [17,179 kWh] [$0.00196]	$33.67
	34	Working Capital Charge (Book to GL Post Exemption)	$6.01
	35	Working Capital Charge [17,179 kWh] [$0.00035]	$6.01
	36	Transmission Charges (Book to GL Post Exemption)	$131.44
	37	Transmission Charges [106 kW] [$1.24]	$131.44

Exhibit 3, 2 of 3

	38	Generation Charges Hourly Generation Credit (FCPO)	$-4,272.09
	39	Line Loss Hourly Generation Credit (FCPO)	$-106.80
	40	GRT Hourly Generation Credit (FCPO)	$-274.56
	41	Working Capital Charges Generation Credit (FCPO)	$-54.62
	42	Administrative Charges Generation Credit (FCPO)	$-4.68
	43	Ancillary Charges Generation Credit (FCPO)	$-1,373.36
	44	Purchased Generation Adj Generation Credit (FCPO)	$-305.89
	45	Transmission Charges Generation Credit (FCPO)	$-536.86
	46	Peak Load Contribution Generation Credit (FCPO)	$-1,971.09
	47	Renewable Energy Credit	$-8,899.95
	48	Electric Supply	$-8,032.68
	50	State Tax Adjustment	$0.00
	52	Federal Tax Adjustment	$0.00
	54	Total Current Charge Dollar Amount (FCPO)	$1,982.00
	55	Total Current Charge Cent Amount (FCPO)	$0.68
	56	Sales Tax - Dollar Amount (FCPO)	$118.92
	57	Sales Tax - Cent Amount (FCPO)	$0.05
	59	Sales Tax w/ Exemption (FCPO)	$11.90
	60	City Tax (FCPO)	$3.97
	61	Sales Tax	$15.87
	62	Taxes & Fees	$15.87
	63	Total Current Charges	$-6,901.40
	64	Estimated Total State Taxes (FCPO)	$-471.37
	65	State Gross Receipts Tax (FCPO)	$-408.12
	66	Price To Compare Value (FCPO)	$0.00

Exhibit 3, 3 of 3

EXHIBIT LG-4

Outlook

Email with account rep and his supervisor

From Lenny Greenfield <lenny@gfm.biz>
Date Thu 10/9/2025 3:30 PM
To Todd Stewart <TSStewart@hmslegal.com>

Lenny Greenfield

Greenfield Manufacturing

9800 Bustleton Ave

Philadelphia, PA

19115

Lenny@GFM.BIZ

215-535-4141

From: Amicone, Chris J:(PECO) <Chris.Amicone@exeloncorp.com>
Sent: Tuesday, September 16, 2025 3:47 PM
To: Lenny Greenfield <lenny@gfm.biz>; Paquette, Chris:(PECO) <Chris.Paquette@exeloncorp.com>
Subject: RE: Bustleton Ave

Hi Lenny,

As of now Bob is really tied up since he will be retiring soon. I emailed the manager of billing to see if someone else can put one together in the meantime and I also followed up with our echannels team regarding the meter issue. Once that meter data issue is fixed we won't be providing spreadsheets going forward though. I also can't promise anything on this current spreadsheet since it's up to the billing manager and the invoices are billing correctly but I'd imagine we'll put something together because of the meter issue on your my peco account. In the meantime the line calcs screenshot is below.

I don't have any info about how they calculate the PLC payment and transmission so I inquired about that as well.

For the pole replacements everything has been submitted to CSX, they're just waiting on the payment for the entry permit so that they can review. They told me this on 9/3 with a TBT date, I just followed up for an update.

I also submitted for the refund check for your last bill.

BILL SEG INFO PECO / Elec - Commercial and Industrial, Frozen, Period: 08-14-2025 - 09-15-2025, $-7,776.33, [redacted] BILL SEGMENT ID [redacted]

BILL SEG HDR 2 of 2

SEQUENCE 2 START DATE 08-15-2025 END DATE 09-15-2025 AMOUNT $-7,776.33

DESC ON BILL Electric High Tension Service 100kW-500kW RATE VERSION PECO Electric Commercial High Tension Svc Demand 100-500kW 01-01-1950

CALC LINE CHAR	SEQUENCE	DESCRIPTION ON BILL	CALCULATED AMOUNT	PRINT	APPEARS IN SUMM
	1	Customer Charge (Base)	$371.68	☐	☑
	2	Night Service Meter Charge	$11.45	☐	☑
	4	Excess Demand Charge	$54.74	☐	☑
	5	Customer Charge	$437.87	☑	☑
	6	Distribution Charges [71 kW] [$7.12]	$505.52	☑	☑
	7	Incremental COVID-19 Related Uncollectible Expense	$-3.55	☐	☐
	8	Fiber Affiliate Revenue Surcharge	$-4.97	☐	☐
	9	Electric Recoupment Surcharge	$0.00	☐	☐
	10	Distribution Charges	$514.04	☐	☐
	11	Distribution Charges (Book to GL Post Exemption)	$0.00	☐	☑
	12	Distribution Charges [0.00 kWh] [$-0.0006]	$0.00	☐	☐
	15	Distribution System Improvement Charge (Book to GL Post Exemption)	$0.00	☐	☑
	16	Distribution System Improvement Charge	$0.00	☐	☐
	17	Energy Eff & Nonbypassable Trans [0.00 kW] [$2.51]	$0.00	☐	☑
	18	Energy Efficiency Charge-KW	$0.00	☐	☐
	19	Non-Bypassable Transmission	$0.00	☐	☐
	20	High Voltage Discount (Book to GL Post Exemption)	$-21.12	☐	☑

	21	High Voltage Discount [88 kW] [$-0.24]	$-21.12	☑	☐
	22	PECO Electric Delivery	$922.27	☑	☑
	23	Administrative Charge (Book to GL Post Exemption)	$0.62	☐	☑
	24	Administrative Charge [20,718 kWh] [$0.00003]	$0.62	☑	☐
	25	Generation Charges	$531.47	☐	☐
	26	Line Loss for Energy Supply	$13.29	☐	☐
	27	GRT for Energy Supply	$34.16	☐	☐
	28	Generation Charges [20,718 kWh]	$578.92	☑	☑
	29	Peak Load Contribution (Book to GL Post Exemption)	$0.00	☐	☑
	30	Peak Load Contribution [0.00 kW] [$10.36731]	$0.00	☐	☐
	31	Ancillary Charge (Book to GL Post Exemption)	$110.43	☐	☑
	32	Ancillary Charge [20,718 kWh] [$0.00533]	$110.43	☑	☐
	33	Purchased Generation Adj. (Book to GL Post Exemption)	$48.48	☐	☑
	34	Purchased Generation Adj. [20,718 kWh] [$0.00234]	$48.48	☑	☐
	35	Working Capital Charge (Book to GL Post Exemption)	$7.25	☐	☑
	36	Working Capital Charge [20,718 kWh] [$0.00035]	$7.25	☑	☐
	37	Transmission Charges (Book to GL Post Exemption)	$148.72	☐	☑
	38	Transmission Charges [88 kW] [$1.69]	$148.72	☑	☐
	39	Generation Charges Hourly Generation Credit (FCPO)	$-4,947.17	☐	☐

🔗	40	Line Loss Hourly Generation Credit (FCPO)	$-123.68	☐	☐
🔗	41	GRT Hourly Generation Credit (FCPO)	$-317.94	☐	☐
🔗	42	Working Capital Charges Generation Credit (FCPO)	$-61.22	☐	☐
🔗	43	Administrative Charges Generation Credit (FCPO)	$-5.25	☐	☐
🔗	44	Ancillary Charges Generation Credit (FCPO)	$-932.25	☐	☐
🔗	45	Purchased Generation Adj Generation Credit (FCPO)	$-409.28	☐	☐
🔗	46	Transmission Charges Generation Credit (FCPO)	$-601.68	☐	☐
🔗	47	Peak Load Contribution Generation Credit (FCPO)	$-2,209.08	☐	☐
🔗	48	Renewable Energy Credit	$-9,607.55	☑	☑
🔗	49	Electric Supply	$-8,713.13	☑	☑
🔗	51	State Tax Adjustment	$0.00	☐	☑
🔗	53	Federal Tax Adjustment	$0.00	☐	☑
🔗	55	Total Current Charge Dollar Amount (FCPO)	$1,816.00	☐	☐
🔗	56	Total Current Charge Cent Amount (FCPO)	$0.69	☐	☐
🔗	57	Sales Tax - Dollar Amount (FCPO)	$108.96	☐	☐
🔗	58	Sales Tax - Cent Amount (FCPO)	$0.05	☐	☐
🔗	60	Sales Tax w/ Exemption (FCPO)	$10.90	☐	☐
🔗	61	City Tax (FCPO)	$3.63	☐	☐
🔗	62	Sales Tax	$14.53	☑	☑
🔗	63	Taxes & Fees	$14.53	☑	☑
🔗	64	Total Current Charges	$-7,776.33	☑	☐
🔗	65	Estimated Total State Taxes (FCPO)	$-531.12	☐	☐
🔗	66	State Gross Receipts Tax (FCPO)	$-459.66	☐	☐
🔗	67	Price To Compare Value (FCPO)	$0.00	☐	☐

Chris Amicone
Senior Account Manager
PECO Large Customer Service
2301 Market St Philadelphia, PA 19103
Office: 215-841-6727
Mobile: 484-340-9812
Chris.Amicone@exeloncorp.com

peco℠
AN EXELON COMPANY

From: Lenny Greenfield <lenny@gfm.biz>
Sent: Monday, September 15, 2025 12:00 PM

To: Amicone, Chris J:(PECO) <Chris.Amicone@exeloncorp.com>; Paquette, Chris:(PECO) <Chris.Paquette@exeloncorp.com>
Subject: Re: Bustleton Ave

Just checking in if you can send over at least one more spreadsheet for billing since I still can't get my meter data off of the Peco account website (one of my up meter's data still doesn't show up even though its listed).

Also do you have any info on how they calculate the PLC payment and transmission?

And do you have any update on the pole replacement. It's been a while since I heard anything.

Lenny Greenfield

Greenfield Manufacturing

9800 Bustleton Ave

Philadelphia, PA

19115

Lenny@GFM.BIZ
215-535-4141

From: Amicone, Chris J:(PECO) <Chris.Amicone@exeloncorp.com>
Sent: Friday, August 29, 2025 1:20 PM
To: Lenny Greenfield <lenny@gfm.biz>; Paquette, Chris:(PECO) <Chris.Paquette@exeloncorp.com>
Subject: RE: Bustleton Ave

IT is still reviewing and we've made requests to have it prioritized. I spoke with Bob about this and he said that the best we can do right now is to send over the screenshots of the bill calc lines, which I already have marked on my calendar to send over to you like the refunds. That at least breaks down all the individual components of the bill and REC.

Chris Amicone
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From: Lenny Greenfield <lenny@gfm.biz>
Sent: Friday, August 29, 2025 1:39 AM
To: Amicone, Chris J:(PECO) <Chris.Amicone@exeloncorp.com>; Paquette, Chris:(PECO) <Chris.Paquette@exeloncorp.com>
Subject: Re: Bustleton Ave

I recall someone sending over an explanation of how the kwh rates for peak load and transmission were determined. Can you send it again?

Get Outlook for Android

From: Amicone, Chris J:(PECO) <Chris.Amicone@exeloncorp.com>
Sent: Thursday, August 28, 2025 12:16:02 PM
To: Lenny Greenfield <lenny@gfm.biz>
Subject: Bustleton Ave

Hi Lenny,

Attached is an Excel spreadsheet with supporting data for the customer's August 2025 bill. Now that the bill print issue in CC&B is resolved we won't be providing this spreadsheet in the future since it's not something that we normally provide to customers. I can send you screenshots of the bill calc lines that are in the August 2025 Bill Seg details tab each month though. It shows the breakdown of the charges including the REC.

Included in the spreadsheet are:

1. Interval load data for all the meters for the bill period.
2. Screen shots of the bill calc lines in CC&B showing the bill line-item details that should have been presented on the bill.
3. Calculation of the REC. There are still a few outstanding questions regarding the calculation of the REC including the prices used for the 'Transmission' & 'PLC' kWh prices. We have opened a formal request for IT to have this verified.

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Example 1	GFM	Customer 2	Customer 3	PECO (NPSL)
	100 kW	100 kW	100 kW	**300 kW**
	$ 1,287	$ 1,287	$ 1,287	**$ 3,861**

Example 2	GFM	Customer 2	Customer 3	PECO (NPSL)
	0 kW	100 kW	100 kW	**200 kW**
	$ -	$ 1,287	$ 1,287	**$ 2,574**

Example 3	GFM	Customer 2	Customer 3	PECO (NPSL)
	-100 kW	100 kW	100 kW	**100 kW**
	$ -	$ 1,287	$ 1,287	**$ 2,574**

Example 4	GFM	Customer 2	Customer 3	PECO (NPSL)
	-100 kW	100 kW	100 kW	**100 kW**
	$ (1,287)	$ 1,287	$ 1,287	**$ 1,287**

EXHIBIT LG-5

ATTACHMENT M-2 (PECO)

Determination of Capacity Peak Load Contributions, Network Service Peak Load and Hourly Load Obligations

PURPOSE

This document outlines the process by which PECO determines Capacity Peak Load Contributions, or "PLCs", Network Service Peak Loads, or "NSPLs", and Final Hourly Load Obligations for customers and subsequently Load Serving Entities ("LSEs") serving load within the PECO Electric Distribution Company ("EDC") Zone (the "PECO Zone"), a zone located entirely within the PJM Regional Transmission Organization (RTO) footprint.

Attachment M-2 does not amend or replace any existing contracts or agreements between PECO and any LSE.

Capitalized terms used in the Attachment M-2 have the meaning given them under the provisions of the PJM Open Access Transmission Tariff unless otherwise defined herein.

CAPACITY (PLC) AND TRANSMISSION (NSPL)

OVERVIEW

On an annual basis, PECO stratifies each of its customers based on the customer's rate class and an analysis of usage and demand over the prior year. At the same time, PECO calculates seasonal scale factors that relate customer's actual historical energy usage to projected usage for that year based on the load profile as well as on actual weather data.

Once complete, PECO then calculates PLCs and NSPLs for service locations within the PECO Zone. PECO then scales these preliminary values up or down such that:

- **PLCs** – The sum of all individual customer PLCs equals the normalized peak load target allocated to the PECO zone as determined by PJM.

- **NSPLs** – The sum of all individual customer NSPLs equals PECO's metered zonal load at the time of the zone's highest transmission peak value (as determined by PJM).

PECO then aggregates the resulting PLC and NSPL values by LSE and transmits to PJM. PECO subsequently provides PJM with updated aggregations on a daily basis.

NSPLs are scaled internally to meet the PECO Zone target.

ANNUAL CALCULATION OF CAPACITY PEAK LOAD CONTRIBUTIONS (PLCS)

PECO calculates individual preliminary PLCs based on normal peak load conditions and adjusts all values to include transmission and distribution losses. The PLCs calculated are effective from June 1st of the following calendar year through May 31st of the subsequent calendar year, in alignment with PJM planning periods.

For the purposes of these procedures, PECO considers the first day of summer to be June 1st and the final day to be September 30th.

A. FOR WHOLESALE INTERVAL-SETTLED LOCATIONS:

1. PECO gathers the actual hourly meter readings at hour-ending normal PJM peak time ET for each of the five days coincident with the highest PJM system peak hours, as determined by PJM. These loads include an "add-back" of energy curtailed as a result of load management initiatives or restrictions as identified by PJM.

2. PECO calculates a weather-normalized peak load for each of these five hours, taking into account the actual reading, actual versus normal peak weather, customer rate class, and losses.

3. To calculate the preliminary PLC, PECO averages the five resulting load values.

B. FOR WHOLESALE MONTHLY-SETLLED LOCATIONS WITH DEMAND METERS:

1. Using industry-standard load profiling techniques, PECO creates a load profile for each of the five days coincident with the highest PJM system peak days, as determined by PJM.

2. PECO calculates an average peak weather correction factor based on the ratio of the profiled peak load versus the expected profile peak at normal peak weather and time conditions for each of the five PJM coincident peak days.

3. PECO determines the actual average non-coincident on-peak summer demand for the premise.

4. To calculate the preliminary PLC, PECO applies the average weather correction factor and losses to the average non-coincident on-peak summer demand.

C. FOR RESIDENTIAL CUSTOMERS WITHOUT DEMAND METERS, PECO calculates the weather-normalized load with losses at hour-ending normal peak time based on the summer weekday load profile and summer scale factor mentioned in Part 1 for the associated customer profile and rate class. This becomes the preliminary PLC.

D. FOR UNMETERED LOCATIONS IDENTIFIED VIA CUSTOMER RATE CLASS AS CONSTANT LOAD (such as traffic lighting):

1. PECO calculates hourly load for each of the four summer months based on the billed usage and billed number of hours for each month.

2. To calculate the preliminary PLC, PECO averages the resulting hourly and applies losses to the resulting average.

E. FOR UNMETERED LOCATIONS IDENTIFIED AS LIGHTING (excluding constant load lighting), PECO sets all PLC values to zero.

F. NEW LOCATIONS WHERE INDIVIDUAL DATA IS NOT YET AVAILABLE are assigned a PLC based on the average default value calculated for the associated customer's rate class and load profile.

ANNUAL CALCULATION OF NETWORK SERVICE PEAK LOAD

PECO uses the PLC calculations above as a direct input to NSPL calculations. The NSPLs calculated will be effective from January 1st through December 31st of the following year.

Because the sum of all NSPLs are equal to the actual metered zonal load, PECO first adjusts the PLCs calculated above for all interval-settled locations so as to exclude energy curtailed as a result of load management initiatives or restrictions based on "add-back" information provided by PJM. (All other PLCs remain as calculated per above.). These values are the initial NSPLs.

Once these adjustments are complete, PECO applies a scaling factor to all adjusted and initial NSPL values based on the zonal transmission target determined by PJM, which represents PECO's metered zonal load at the time of the PECO zone's highest transmission peak value. The result is the individual NSPLs for each specific location which, when totaled, will sum to PECO's annual zonal target.

DAILY UPDATES TO PLC AND NSPL

Because the LSE responsible for a customer's Capacity Peak Load Contribution and Network Service Peak Load is subject to change at points throughout the effective period, PECO aggregates PLC and NSPL values by LSEs serving load within the zone on a daily basis and transmits those updates to PJM in accordance with PJM procedural requirements and capacity market schedules. NSPLs are scaled to the PECO zone NSPL target before sending to PJM.

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DETERMINATION OF HOURLY LOAD OBLIGATIONS

OVERVIEW

PECO settles hourly load obligations with each LSE and PJM via a two-step process.

Settlement A – PECO determines the estimated "day after" (delivery day) hourly load responsibility by recreating the load characteristics of the delivery day in question using a combination of available known, preliminary, and historically-based information. PECO then submits the load responsibility for all LSEs serving load on the settled day(s) to PJM in accordance with PJM procedural requirements and energy market schedules.

Settlement B – PECO determines the final hourly load responsibility approximately 60 days after an energy delivery month by reconciling actual individual customer meter readings and applicable load profile data with the Settlement A data for that month. PECO then calculates and submits the energy variances from Settlement A hourly scheduling for all LSEs to PJM in accordance with PJM procedural requirements and energy market schedules.

All hourly load obligations are adjusted for transmission and distribution losses.

SETTLEMENT A (ESTIMATED "DAY AFTER" HOURLY LOAD OBLIGATIONS)

FOR INTERVAL WHOLESALE-SETTLED CUSTOMERS:

1. A retail LSE (Electric Generation Supplier) either calculates and provides the estimated "day after" hourly load responsibility directly to PECO OR otherwise accepts the day-after load responsibility (including losses) estimated by PECO.

2. PECO calculates the estimated load responsibility for each individual customer based on prior energy delivery days of similar day-type and similar weather.

FOR ALL OTHER CUSTOMERS:

1. PECO aggregates customers by LSE and assigned load profiles respectively.

2. PECO calculates the estimated hourly load responsibility based on the customer's assigned load profile and the scaling factor initially mentioned in Part I, Section 1 above.

    a. PECO assigns new customers the default scale factors for their rate class and assigned load profile.

b. The load profiles used by PECO for this purpose are split into various seasons and day-types.

3. PECO adjusts all calculations for losses and then aggregates the resulting estimated hourly load obligations by LSE and assigned load profile respectively.

Following the above, for all customers, PECO allocates any existing Unaccounted-For Energy to all customers by load share ratio of monthly settled load and adds this to the estimated hourly load responsibilities.

Finally, PECO aggregates the hourly energy obligations by LSE and subsequently by PJM Contract Number and reports the resulting energy schedules to PJM.

SETTLEMENT B ("60 DAY SETTLEMENT—FINAL" HOURLY LOAD OBLIGATIONS)

For interval-settled customers, PECO uses the customer's actual interval data to determine the associated hourly load obligations, and then adjusts for losses.

For monthly-settled customers, PECO converts the monthly aggregate consumption into hourly consumption values for the related billing periods. PECO accomplishes this by generating an hourly load shape for the periods based directly on the customer's assigned load shape and weather, then scaling that load shape to tie to the customer's actual usage, calculating the associated hourly load obligation values, and adjusting those values for losses.

For all customers, PECO then calculates a "bottom-up" load shape for the energy delivery month being reconciled and compares that shape with a load shape comprised of actual metered PECO zone load. PECO considers any resulting variance as being Unaccounted-For Energy for that hour and allocates it to hourly load obligations as appropriate.

PECO then calculates the difference between the "day after" estimated load obligations previously determined in Settlement A and the final hourly load obligations for Settlement B, aggregating the resulting variances by LSE and subsequently by PJM Contract Number. PECO then reports the resulting energy variances to PJM. PJM incorporates the variances as adjustments within its market settlement processes with LSEs.

If adjustments are made to the Hourly Load of a LSE in the PECO Zone after this load reconciliation, PECO may calculate the financial value of the adjustment and report that value to PJM. PECO will also allocate the equal and opposite financial value to all LSEs in the PECO Zone, on a load-ratio share basis, and report the adjustments to PJM. PJM will include any adjustments in the next monthly billing statement issued by PJM to the affected LSE(s).

EXHIBIT LG-6

PJM Interconnection

Summer 2024 Weather Normalized RTO Coincident Peaks (MW)

Zone		Peak
AE		2,370
AECO	2,223.3	
Vineland	146.7	
AEP		22,370
APS		8,790
ATSI		12,207.6
BGE		6,310
COMED		19,040
DAYTON		3,190
DEOK		5,060
DLCo		2,640
DOM		22,356.1
DPL		3,760
DPLCO	3,708.0	
EASTON	52.0	
EKPC		2,000
JCPL		5,810
METED		2,960
OVEC		60
PECO		8,120
PENLC		2,760
PEPCO		5,810
PEP	5,003.7	
SMECO	806.3	
PL		6,910
PS		9,700
RECO		390
UGI		190
PJM RTO		**152,803.7**

Summer 2024 RTO Coincident Peaks (5CP)

Notes: All times are listed in Hour Ending EPT
Peak loads are unrestricted

PJM RTO

Day	Date	Hour	MW
Tuesday	7/16/2024	18:00	152,307
Monday	7/15/2024	18:00	151,103
Thursday	8/1/2024	18:00	148,240
Friday	6/21/2024	18:00	147,271
Wednesday	8/28/2024	18:00	147,249

Revised 11/14/2024 for ATSI and Dominion Non-Retail BTMG.

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PJM INTERCONNECTION

Summer 2024 - Coincident Peaks, By Zone (MW)

Date	7/16/2024	7/15/2024	8/1/2024	6/21/2024	8/28/2024
Hour End (EPT)	18:00	18:00	18:00	18:00	18:00
AE	2,522.3	2,521.4	2,506.0	2,236.1	2,469.9
AEP	21,193.5	21,216.1	20,890.6	21,535.1	21,787.1
APS	8,776.3	8,607.2	8,568.6	8,501.0	8,593.3
ATSI	11,880.0	11,516.4	12,200.3	12,131.7	11,580.0
BGE	6,765.9	6,481.2	6,322.7	5,866.3	6,169.0
COMED	16,972.5	19,014.1	17,556.2	18,568.7	16,726.8
DAYTON	3,038.0	2,882.0	3,152.0	3,260.0	3,335.0
DEOK	4,627.0	4,869.0	4,838.9	5,025.2	4,964.4
DLCo	2,669.6	2,651.7	2,604.2	2,644.5	2,587.3
DOM	23,123.3	22,035.0	21,924.8	20,685.9	22,155.0
DPL	4,201.2	4,130.2	3,915.0	3,607.6	3,815.2
EKPC	1,908.4	2,077.4	1,989.2	2,010.1	2,070.4
JCPL	6,183.6	5,923.0	5,585.9	5,714.4	5,562.0
METED	2,949.9	2,961.7	2,890.1	2,850.7	2,828.0
OVEC	54.0	53.0	66.0	59.0	75.0
PECO	8,650.0	8,320.4	8,020.0	7,660.7	7,718.2
PENLC	2,768.4	2,715.4	2,815.3	2,741.6	2,658.7
PEPCO	6,161.7	5,765.8	5,650.2	5,392.5	5,739.0
PPL-EU	7,100.1	7,126.7	6,785.4	6,870.1	6,758.7
PS	10,151.7	9,636.2	9,393.7	9,323.1	9,115.3
RECO	401.6	388.8	373.1	384.5	346.8
UGI	208.4	210.6	191.5	201.7	193.3
PJM RTO	**152,307.4**	**151,103.1**	**148,239.7**	**147,270.6**	**147,248.5**
EASTON	58.3	57.7	54.2	48.9	52.9
SMECO	849.2	830.8	785.2	719.7	800.6
Vineland	160.1	153.6	153.0	139.3	152.7

Revised 11/14/2024 for ATSI and Dominion Non-Retail BTMG.

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EXHIBIT LG-7

RATE RS-2 NET METERING

PURPOSE.

This Rate sets forth the eligibility, terms and conditions applicable to Customers with installed qualifying renewable customer-owned generation using a net metering system.

APPLICABILITY.

This Rate applies to renewable customer-generators served under Rates R, RH, CAP, GS, HT, PD and EP who install a device or devices which are, in the Company's judgment, subject to Commission review, a bona fide technology for use in generating electricity from qualifying Tier I or Tier II alternative energy sources pursuant to Alternative Energy Portfolio Standards Act No. 2004-213 (Act 213) or Commission regulations and which will be operated in parallel with the Company's system. A renewable customer-generator is a non-utility owner or operator of a net metered generation system with a nameplate capacity of not greater than 50 kilowatts if installed at a residential service (Rate R, RH, or CAP) or not larger than 3,000 kilowatts at other customer service locations (Rate GS, HT, PD and EP), except for Customers whose systems are above 3 megawatts and up to 5 megawatts who make their systems available to operate in parallel with the Company during grid emergencies as defined by the regional transmission organization or where a microgrid is in place for the purpose of maintaining critical infrastructure such as homeland security assignments, emergency services facilities, hospitals, traffic signals, wastewater treatment plants or telecommunications facilities provided that technical rules for operating generators interconnected with facilities of the Company have been promulgated by the Institute of Electrical and Electronic Engineers "IEEE" and the Commission. **(C)**

Qualifying renewable energy installations are limited to Tier I and Tier II alternative energy sources as defined by Act 213 and Commission Regulations. The Customer's equipment must conform to the Commission's Interconnection Standards and Regulations pursuant to Act 213. This Rate is not applicable when the source of supply is service purchased from a neighboring electric utility under Borderline Service.

Service under this Rate is available upon request to renewable customer-generators on a first come, first served basis so long as the total rated generating capacity installed by renewable customer-generator facilities does not adversely impact service to other Customers and does not compromise the protection scheme(s) employed on the Company's electric distribution system.

METERING PROVISIONS.

A Customer may select one of the following metering options in conjunction with service under applicable Rate Schedule R, RH, CAP, GS, HT, PD or EP.

1. A customer-generator facility used for net metering shall be equipped with a single bi-directional meter that can measure and record the flow of electricity in both directions at the same rate. A dual meter arrangement may be substituted for a single bi-directional meter at the Company's expense.

2. If the customer-generator's existing electric metering equipment does not meet the requirements under option (1) above, the Company shall install new metering equipment for the customer-generator at the Company's expense. Any subsequent metering equipment change necessitated by the customer-generator shall be paid for by the customer-generator. The customer-generator has the option of utilizing a qualified meter service provider to install metering equipment for the measurement of generation at the customer-generator's expense.

   Additional metering equipment for the purpose of qualifying alternative energy credits owned by the customer-generator shall be paid for by the customer-generator. The Company shall take title to the alternative energy credits produced by a customer-generator where the customer-generator has expressly rejected title to the credits. In the event that the Company takes title to the alternative energy credits, the Company will pay for and install the necessary metering equipment to qualify the alternative energy credits. The Company shall, prior to taking title to any alternative energy credits, fully inform the customer-generator of the potential value of those credits and options available to the customer-generator for their disposition.

3. Meter aggregation on properties owned or leased and operated by a customer-generator shall be allowed for purposes of net metering. Meter aggregation shall be limited to meters located on properties within two (2) miles of the boundaries of the customer-generator's property. Meter aggregation shall only be available for properties located within the Company's service territory. Physical meter aggregation shall be at the customer-generator's expense. The Company shall provide the necessary equipment to complete physical aggregation. If the customer-generator requests virtual meter aggregation, it shall be provided by the Company at the customer-generator's expense. The customer-generator shall be responsible only for any incremental expense entailed in processing his account on a virtual meter aggregation basis.

(C) Denotes Change

RATE RS-2 NET METERING (continued)

BILLING PROVISIONS.

The following billing provisions apply to customer-generators in conjunction with service under applicable Rates R, RH, CAP, GS, HT, PD, EP.

1. The customer-generator will receive a credit for each kilowatt-hour received by the Company up to the total amount of electricity delivered to the Customer during the billing period at the full retail rate consistent with Commission regulations. If a customer-generator supplies more electricity to the Company than the Company delivers to the customer-generator in a given billing period, the excess kilowatt hours shall be carried forward and credited against the customer-generator's usage in subsequent billing periods at the full retail rate. Any excess kilowatt hours will continue to accumulate until the end of the PJM planning period ending May 31 of each year. On an annual basis, the Company will compensate the customer-generator for kilowatt-hours received from the customer-generator in excess of the kilowatt hours delivered by Company to the customer-generator during the preceding year at the "full retail value for all energy produced" consistent with Commission regulations. The customer-generator is responsible for the customer charge, demand charge and other applicable charges under the applicable Rate Schedule.

2. If the Company supplies more kilowatt-hours of electricity than the customer-generator facility feeds back to the Company's system during the billing period, all charges of the appropriate rate schedule shall be applied to the net kilowatt-hours of electricity that the Company supplied. The customer-generator is responsible for the customer charge, demand charge and other applicable charges under the applicable Rate Schedule.

3. For customer-generators involved in virtual meter aggregation programs, any excess credit shall be applied first to the account containing the meter through which the generating facility supplies electricity to the distribution system, also known as the "host account". If the host account's usage has been fully offset by this credit and additional excess credit still remains, PECO will divide that remaining credit into equal parts based on the number of additional virtually metered accounts under the customer-generator's name, also known as "satellite accounts", and apply one part to each satellite account in a "waterfall"-like fashion at each account's designated rate. This process continues as PECO bills each subsequent satellite account, with any additional excess credits from each divided equally among the remaining satellite accounts. Virtual meter aggregation is the combination of readings and billing for all meters regardless of rate class on properties owned or leased and operated by a customer-generator by means of the Company's billing process, rather than through physical rewiring of the customer-generator's property for a physical, single point of contact. The customer-generators are responsible for the customer charge, demand charge and other applicable charges under the applicable Rate Schedule.

4. Procurement Class 3/4 customer-generators will receive a generation credit, at the PJM Day Ahead hourly energy rate, for each kilowatt hour received by the Company during each hour of the billing period up to the total amount of electricity delivered to the customer during each hour of the billing period.

   If a Procurement Class 3/4 customer-generator supplies more electricity to the Company than the Company delivers to the customer-generator during any hour in the billing period, the excess kilowatt hours shall not be carried forward to a subsequent billing period but will be credited in the current month toward generation charges based on the PJM Day Ahead hourly rate. Any excess kilowatt hours at the end of the PJM planning period will not carry over to the next year.

5. Procurement Class 3/4 customer-generators will also receive a variable distribution credit for each kilowatt hour received by the Company during the monthly billing period up to the total amount of electricity delivered to the Customer during the monthly billing period at the applicable distribution rate.

   If a Procurement Class 3/4 customer-generator supplies more electricity to the Company than the Company delivers to the customer-generator, the variable distribution charges will be reduced by the excess kilowatt hours, which will be carried forward and credited against the customer-generator's distribution kilowatt hours in subsequent billing periods until the end of the PJM planning period, ending May 31 of each year.

   Procurement Class 3/4 customer-generators are responsible for the customer charge, demand charge and other applicable charges under the applicable Rate Schedule.

   Any excess kilowatt hours at the end of the PJM planning period will not carry over to the next year and reduce distribution charges.

NET METERING FOR SHOPPING CUSTOMERS.

1. Customer-generators may take net metering services from EGSs that offer such services.

2. If a net-metering customer takes service from an EGS, the Company will credit the customer for distribution charges for each kilowatt hour produced by a Tier I or Tier II resource installed on the customer-generator's side of the electric revenue meter, up to the total amount of kilowatt hours delivered to the customer by the Company during the billing period. If a customer-generator supplies more electricity to the electric distribution system than the EDC delivers to the customer-generator in a given billing period, the excess kilowatt hours shall be carried forward and credited against the customer-generator's usage in subsequent billing periods at the Company's distribution rates. Any excess kilowatt hours at the end of the PJM planning period will not carry over to the next year and reduce distribution charges. The customer-generator is responsible for the customer charge, demand charge and other applicable charges under the applicable Rates Schedule.

3. If the Company delivers more kilowatt hours of electricity than the customer-generator facility feeds back to the Company's system during the billing period, all charges of the applicable rate schedule shall be applied to the net kilowatt hours of electricity that the Company delivered. The customer-generator is responsible for the customer charge, demand charge and other applicable charges under the applicable Rate Schedule.

RATE RS-2 NET METERING (continued)

4. Pursuant to Commission regulations, the credit or compensation terms for excess electricity produced by customer-generators who are customers of EGSs shall be stated in the service agreement between the customer-generator and the EGS.

5. If a customer-generator switches electricity suppliers, the Company shall treat the end of the service as if it were the end of the PJM planning period.

APPLICATION.

Customer-generators seeking to receive service under the provisions of this Rate must submit a written application online to the Company demonstrating compliance with the Net Metering Rate provisions and quantifying the total rated generating capacity of the customer-generator facility. The link to the online application can be found on the Green Power Connection pages on peco.com. **(C)**

INTERCONNECTION EXPIRATION.

Interconnection applications will be reviewed and processed in accordance with the timeframes designated by PECO in Act 213 and Title 52 of the Pa Code Chapter 75. A customer-generator (or authorized designee) must submit a completed certificate of completion ("COC") for residential level 1 and 2 interconnection applications to PECO within 180 calendar days from the date that PECO approves the interconnection application. If a COC is not received within 180 calendar days from the date that PECO approves the interconnection application then the residential level 1 and level 2 interconnection applications shall expire. A customer-generator may request an extension of a residential level 1 or level 2 application expiration date for good cause shown (i.e., that significant progress in construction of the interconnection has been or will be made). Upon a showing of good cause, the application expiration date will be extended. The length of the extension may be extended up to but no more than 180 calendar days. A customer-generator must make such extension requests in writing or via e-mail no less than 30 calendar days prior to an application's original expiration date. PECO will provide notice to developers of distributed generation at least 45 calendar days ahead of the original expiration date.

Any interconnection application in (a) Conditionally Approved or (b) Engineering Study status will expire in 6 months unless a customer-generator takes steps to (a) satisfy the conditions of the Conditional Approval or (b) pays for and moves forward with the Engineering Study. A customer-generator will be notified of the upcoming interconnection application expiration 45 calendar days ahead of the expiration date. Prior to the expiration of the 6-month period, a customer-generator may request an extension to resolve the outstanding issues surrounding their interconnection application. Upon a showing of good cause, the interconnection application expiration date will be extended up to but no more than 180 calendar days. **(C)**

MINIMUM CHARGE.

The Minimum Charges under Rate Schedule R, RH, CAP, GS, PD, HT and EP apply for installations under this Rate.

RIDERS.

Bills rendered by the Company under this Rate shall be subject to charges stated in any other applicable Rate.

(C) Denotes Change

EXHIBIT LG-8

RATE-HT HIGH TENSION POWER

AVAILABILITY.
Untransformed service from the Company's standard high tension lines, where the customer installs, owns, and maintains, any transforming, switching and other receiving equipment required.

CURRENT CHARACTERISTICS.
Standard high tension service.

MONTHLY RATE TABLE.
FIXED DISTRIBUTION SERVICE CHARGE: $371.68

VARIABLE DISTRIBUTION SERVICE CHARGE:
$7.12 per kW of billing demand
($0.0006) per kWh for all kWh

HIGH VOLTAGE DISTRIBUTION DISCOUNT:
For customers supplied at 33,000 volts: $0.24 per kW of measured demand.
For customers supplied at 69,000 volts: $1.94 per kW of measured demand.
For customers supplied over 69,000 volts: $1.94 per kW of measured demand.

ENERGY EFFICIENCY CHARGE: $1.18 per kW of Peak Load Contribution **(I)**

ENERGY SUPPLY CHARGE: Refer to the Generation Supply Adjustment Procurement Classes 2 and 3/4.

TRANSMISSION SERVICE FOR CUSTOMERS RECEIVING DEFAULT SERVICE: The Transmission Service Charge shall apply.

STATE TAX ADJUSTMENT CLAUSE, DISTRIBUTION SYSTEM IMPROVEMENT CHARGE (DSIC), PROVISION FOR THE RECOVERY OF CONSUMER EDUCATION PLAN COSTS, NON-BYPASSABLE TRANSMISSION CHARGE, PROVISION FOR THE RECOVERY OF ENERGY EFFICIENCY, FIBER AFFILIATE REVENUE SURCHARGE, INCREMENTAL COVID-19 RELATED UNCOLLECTIBLE SURCHARGE AND CONSERVATION PROGRAM AND NUCLEAR DECOMMISSIONING COST ADJUSTMENT APPLY TO THIS RATE.

DETERMINATION OF BILLING DEMAND.
The billing demand will be computed to the nearest kilowatt and will never be less than the measured demand, adjusted for power factor in accordance with the Rules and Regulations, nor less than 25 kilowatts. Additionally, the billing demand will not be less than 40% of the maximum demand specified in the contract. The 25 kW minimum shall apply to the Energy Supply Charge and the Transmission Supply Charge.

CONJUNCTIVE BILLING OF MULTIPLE DELIVERY POINTS.
If the load of a customer located at a delivery point becomes greater than the capacity of the standard circuit or circuits established by the Company to supply the customer at that delivery point, upon the written request of the customer, the Company will establish a new delivery point and bill the customer as if it were delivering and metering the two services at a single point, as long as installation of the new service is, in the Company's opinion, less costly for the Company than upgrading the service to the first delivery point and provided that such multi-point delivery is not disadvantageous to the Company.

MINIMUM CHARGE.
The monthly minimum charge shall be the Fixed Distribution Service Charge, plus the charge per kW component of the Variable Distribution Service Charge, and modify less the high voltage discount where applicable plus in the case of Procurement Class 3/4 customers, charges assessed on PJM's reliability pricing model.

TERM OF CONTRACT.
The initial contract term shall be for at least three years.

PAYMENT TERMS.
Standard.

(I) Denotes Increase

EXHIBIT LG-9

GENERATION SUPPLY ADJUSTMENT FOR PROCUREMENT CLASS 3/4 LOADS GREATER THAN 100KW

Applicability: June 1, 2025 this adjustment shall apply to all customers taking default service from the Company with demands greater than 100 kw.

Hourly Pricing Service
Pricing: The rates below shall include the cost of procuring power to serve the default service customers plus associated administrative expenses incurred in acquiring power and gaining regulatory approval of any procurement strategy and plan. The rates for the GSA 3/4 Hourly Pricing Adder* shall be updated quarterly on June 1, September 1, December 1 and March 1 commencing June 1, 2025 and are not prorated. If the balance of over/(under) recovery gets too large due to billing lag, the Company can file a reconciliation that will mitigate the subsequent impact. The cost for this hourly service rate shall be as follows:

Generation Supply Cost (GSC) = (C+R+AS+AC-E)/(1-T)+WCA where;

C = The PJM day ahead hourly price multiplied by the customers usage in the hour summed up for all hours in the month

$$\Sigma PJM_{DA} \text{ x usage / (1-LL)}$$

PJM_{DA} – PJM on day ahead hourly price.
Usage - Electricity used by an end use customer.
R = The PJM reliability pricing model (RPM) charge for month for the customer. The RPM charge shall be the customers peak load contribution as established for PJM purposes multiplied by the current RPM monthly charge and the PJM established reserve margin adjustment.
PLC x (1+ RM) x P_{RPM} x Bill Days
PLC = Peak load contribution

RM = Reserve margin adjustment per PJM
P_{RPM} = Capacity price per MW-day
AC = Administrative Cost - This includes an allocation of the cost of the Independent Evaluator, consultants providing guidance on the development of the procurement strategy, legal fees incurred gaining approval of the plan, and any other costs associated with designing and implementing a procurement plan divided by the total default service sales and then multiplied by the customers usage for the month. Administrative Costs also includes any other costs incurred to implement retail market enhancements directed by the Commission in its Retail Market Investigation at Docket No. I-2011-2237952 or any other applicable docket that are not recovered from EGSs or through another rate.
A / S x Usage
A = Administrative cost
S = Default service sales
AS = The cost, on a $/MWH basis, of acquiring ancillary services from PJM and of complying with the Alternative Energy Portfolio Standard, multiplied by the customers usage for the month and divided by (1-LL). Congestion charges including the proceeds and costs from the exercise of
Auction Revenue Rights shall be included in this component. Ancillary services shall be those included in the Supply Master Agreement as being the responsibility of the supplier.

$$((PJM_{AS} \text{ x Usage*}1/(1\text{-LL}) + AEPS/S_{AEPS} \text{ x Usage})$$

PJM_{AS} = $/MWH charged by PJM for ancillary services
AEPS = Cost of complying with the alternative energy portfolio standard
S_{AEPS} = Sales for which AEPS cost is incurred
If the supplier provides the ancillary services and AEPS cost then the customer shall be charged the supplier's rate for these services times usage and divided by (1-LL).

Auction Revenue Rights (ARR) = Allocated annually by PJM to Firm transmission customers, the ARR's allow a Company to select rights to specific transmission paths in order to avoid congestion charges
LL = Line loss factor as provided in the Company's Electric Generation Supplier Coordination Tariff Rule 6.6 based upon the customers distribution rate class adjusted to remove losses included in the PJM LMP
T = The currently effective gross receipts tax rate
E = $\Sigma O/(U)/S_3/_4$ x usage where
E (Purchased Generation Adj.) = Over/under recovery as calculated in the reconciliation
$S_3/_4$ = Procurement class 3/4 sales
WC = $0.00035/kWh for working capital associated with power purchases
WCA = Individual customer sales x WC
Procedure: The "E" factor shall be updated semiannually in conjunction with the Reconciliation. The applicable above items are converted to the rates listed below.

Tariff Rate	GS	PD	HT	EP
Hourly Pricing Adder* (dollars/kWh)	$0.00838	$0.00829	$0.00805	$0.00805

(C)

* Includes administrative cost (AC), ancillary service charge (AS), E factor (E) and working capital (WC).

(C) Denotes Change

RECONCILIATION

Applicability: June 1, 2025 this adjustment shall apply to all customers who received default service during the period the cost of which is being reconciled. Customers taking default service during the reconciliation period that leave default service prior to the assessment of the collection of the over/(under) adjustment shall still pay or receive credit for the over/(under) adjustment through the migration provision. The Company shall notify the Commission and parties to the Default Service Settlement 15 days in advance of the quarterly or monthly filing if the Migration Provision will be implemented in the filing. **(C)**

This adjustment shall be calculated on a semiannual basis for Procurement Classes 1, 2 and 3/4 Hourly. The reconciliation period will include the six month period beginning January 1 and July 1 commencing with the July 1, 2024 through December 31, 2024 reconciliation period. There will be a transition reconciliation period for Procurement Classes 1 and 2 effective June 1, 2025 through November 30, 2025. The reconciliation will be based on utilizing the December 31, 2024 over/(under) balance adjusted for prior period revenues from January 2025 through May 2025. The reconciliation shall be separate for each procurement class. Any resulting over or under recovery shall be assessed on an equal cents per kilowatt hour basis to all customers in the relevant procurement group. **(C)** (C)
For Procurement Classes 1 and 2, any over/(under) recovery shall be collected after the occurrence of five months from the end of the reconciliation period. Recovery shall be over a six month period commencing June 1 and December 1. The initial six month period is June 1, 2025 through November 30, 2025. For Procrement Class 3/4 Hourly, any over/(under) recovery shall be collected after the occurrence of two months from the end of the reconciliation period. Recovery shall be over a six month period commencing September 1 and March 1. The initial six month period is March 1, 2025 through August 31, 2025. For purposes of this rider the reconciliation shall be calculated 45 days before the effective date of recovery. The over or under recovery shall be calculated using the formula below. The calculation of the over/(under) recovery shall be done separately for the following procurement classes – Class 1 –Residential, Class 2 – Small C&I up to and including100 kW, and Class 3/4 – Large C&I greater than 100 kW. For Procurement Classes 1 and 2, Standard Pricing and TOU Pricing Option revenue and cost of supply will be included for the entire Procurement Class.

Reconciliation Formula

$E_N = \Sigma O/(U) + I$

Migration Provision $E_M = [\Sigma O/(U) + I]/S/(1\text{-}GRT)*(1\text{-}ALL)/(1\text{-}LL)$

Where:

E = Experienced over or under collection plus associated interest

N = Procurement class

M = Migration Rider

O/(U) = The monthly difference between revenue billed to the procurement class and the cost of supply as described below in Cost, AEPS Cost and Administrative Cost.

Revenue = Amount billed to the tariff rates applicable to the procurement class including approved Real Time Price or other time sensitive rates for the period being reconciled through the GSA.

Cost = The sum of the amounts paid to all of the full requirements suppliers providing the power for the period being reconciled, the spot market purchases for the period being reconciled, plus the cost of any other energy acquired for the period being reconciled. Cost shall include energy, capacity and ancillary services as well as the proceeds and costs of auction revenue rights for Procurement Classes 1 and 2. Ancillary services shall include any allocation by PJM to PECO default service associated with the failure of a PJM member to pay its bill from PJM as well as those costs listed in the Supply Master Agreement as the responsibility of the seller.

AEPS = The total cost of complying with the Alternative Energy Portfolio Standards Act ("AEPS" or the "Act") not included in the Cost component above for the reconciliation period for Procurement Classes 1 and 2 and not included in the ancillary services component for Procurement Class 3/4 Hourly Service. Costs include the amount paid for Alternative Energy and/or Alternative Energy Credits ("AEC's") purchased for compliance with the Act, the cost of administering and conducting any procurement of Alternative Energy and/or AEC's, payments to the AEC program administrator for its costs of administering an alternative energy credits program, payments to a third party for its costs in operating an AEC registry, any charge levied by PECO's regional transmission operator to ensure that alternative energy sources are reliable, a credit for the sale of any AEC's sold during the calculation period, and the cost of Alternative Compliance Payments that are deemed recoverable by the Commission, plus any other direct or indirect cost of acquiring Alternative Energy and/or AEC's and complying with the AEPS statute.

Administrative Cost = This includes the cost of the Independent Evaluator, consultants providing guidance on the development of the procurement strategy, legal fees incurred gaining approval of the strategy, and any other costs associated with designing and implementing a procurement plan including the cost of the pricing forecast necessary for estimating cost recoverable under this tariff. Also included in this component shall be the cost to implement real time pricing or other time sensitive pricing such as dynamic pricing that is required of the Company or approved in its Act 129 filing. Administrative Costs also includes other costs incurred to implement retail market enhancements directed by the Commission in its Retail Market Investigation at Docket No. I-2011-2237952 or any other applicable docket that are not recovered from EGS's or through another rate.

Full Requirements Supply = A product purchased by the Company that includes a fixed price for all energy consumed. The only cost added by the Company to the full requirements price is for gross receipts tax, distribution line losses, and administrative cost.

Ancillary Services = The following services in the PJM OATT- reactive support, frequency control, operating reserves, supplemental reserves, imbalance charges, PJM annual charges, any PJM assessment associated with non-payment by members, and any other load serving entity charges not listed here but contained in Exhibit D of the Supply Master Agreement. Also included shall be the proceeds and costs from the exercise of auction revenue rights for Procurement Class 3/4 Hourly Service.

(C) Denotes Change

RECONCILIATION
(CONTINUED)

Auction Revenue Rights (ARR) = Allocated annually by PJM to Firm transmission customers, the ARR's allow a Company to select rights to specific transmission paths in order to avoid congestion charges.

Capacity = The amount charged to PECO by PJM for capacity for its default service load under the reliability pricing model (RPM).

I = interest on 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 collection or under collection occurs, as reported in the Wall Street Journal in accordance with the Order at Docket No. L-2014-2421001.

S= Estimated default service retail sales in kWh for the period the cost of which is being reconciled.

ALL = The average line losses in a procurement class as a percent of generation.

LL = The average line losses for a particular rate (e.g. HT, PD, GS) as provided in the Electric Generation Supplier Coordination Tariff rule 6.6.

GRT = The current gross receipts tax rate.

Procurement Class - Set of customers for which the company has a common procurement plan.

Procedural Schedule
The Company shall file the calculation of the over/under collection for the period being reconciled and the proposed adjustment to the GSA 45 days before the effective date as described below. The over/under collection adjustment shall be effective no earlier than the first day of the month such that the commencement of recovery shall lag by five months for Procurement Classes 1 and 2 and two months for Procurement Class 3/4 Hourly . For Procurement Classes 1 and 2,the GSA will be effective June 1 and December 1 commencing June 1, 2025 with over/under collection recovery occurring over the six month period beginning June 1 and December 1. For Procurement Class 3/4 Hourly, the GSA will be effective June 1, September 1, December 1 and March 1 commencing June 1, 2025 with over/(under) collection recovery occurring over the six month period beginning September 1 and March 1. The data provided in the reconciliation shall be audited on an annual basis by the PaPUC Bureau of Audits. **(C)**

(C) Denotes Change

EXHIBIT LG-10

Price to Compare (PTC) Table DISCLAIMER

Disclaimer

This document does not include factors/adders such as surcharges and sales taxes applicable to PECO distribution service. The PTC contained herein contains best-known values and will be updated as needed in accordance with PECO's Default Service Plan ("DSP VI") Order at Docket No. P-2024-3046008.

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Updated as of 5/15/2025

PECO Price to Compare Effective June 1, 2025 through November 30, 2025

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(ACTUAL)

Procurement Class 2 (Demand < = 100KW) - Small Commercial & Industrial Customers

Business & Street Lighting Rate Classes	Price to Compare (cents/kWh) [1] (A) = (B) + (C)	Standard Generation Charge (cents/kWh) [2] (B)	Transmission Charge (cents/kWh) [3] (C)
General Service (GS)	**9.382**	8.651	0.731
Primary - Distribution Power (PD)	**9.097**	8.500	0.597
High - Tension Power (HT)	**8.751**	8.154	0.597
Alley Lighting in City of Philadelphia (AL)	**6.077**	6.052	0.025
Private Outdoor Lighting (POL)	**6.077**	6.052	0.025
Street Lighting - Suburban Counties (SL-S)	**6.077**	6.052	0.025
Street Lighting Customer-Owned Facilities - (SL-E)	**6.077**	6.052	0.025
Smart Lighting Control (SL-C) [4]	**6.077**	6.052	0.025
Traffic Lighting Constant Load Service (TLCL)	**8.676**	8.651	0.025

Notes:

(1) Price to Compare (PTC) includes an adjustment for Gross Receipts Tax of 5.90% effective 01/01/2012.

(2) Alternative Energy Portfolio Standard (AEPS) Charge is the electric service charge for recovery of the costs associated with compliance with the AEPS Act. Effective June 1, 2013, AEPS is included in the Generation Charge per the Pennsylvania Public Utility Commission (PUC) order (Docket No. P-2012-2283641).

(3) Transmission Charge is based on the PUC Orders, Docket No. R-2012-2318065, entered on September 27, 2012 and Docket No. P-2014-2409362, entered on December 4, 2014.

(4) Rate SL-C was effective July 1, 2019 pursuant to the Order at Docket No. R-2018-3000164.

Updated as of 5/15/2025

PECO Price to Compare Effective June 1, 2025 through November 30, 2025

(ACTUAL)

Procurement Class 2 (Demand < = 100KW) - Small Commercial & Industrial Customers

Business Rate Classes	TOU Pricing Option (cents/kWh) [1], [4], [5] (A) = (B) + (C)		TOU Generation Charge (cents/kWh) [2] (B)	Transmission Charge (cents/kWh) [3] (C)
General Service (GS)	Peak kWhs	23.376	22.645	0.731
	Off-Peak kWhs	7.594	6.863	0.731
	Super Off-Peak kWhs	5.400	4.669	0.731
Primary - Distribution Power (PD)	Peak kWhs	22.844	22.247	0.597
	Off-Peak kWhs	7.340	6.743	0.597
	Super Off-Peak kWhs	5.184	4.587	0.597
High - Tension Power (HT)	Peak kWhs	21.937	21.340	0.597
	Off-Peak kWhs	7.065	6.468	0.597
	Super Off-Peak kWhs	4.997	4.400	0.597

Notes:

(1) Price to Compare (PTC) includes an adjustment for Gross Receipts Tax of 5.90% effective 01/01/2012.

(2) Alternative Energy Portfolio Standard (AEPS) Charge is the electric service charge for recovery of the costs associated with compliance with the AEPS Act.
Effective June 1, 2013, AEPS is included in the Generation Charge per the Pennsylvania Public Utility Commission (PUC) order (Docket No. P-2012-2283641).

(3) Transmission Charge is based on the PUC Orders, Docket No. R-2012-2318065, entered on September 27, 2012 and Docket No. P-2014-2409362, entered on December 4, 2014.

(4) Time-of-Use pricing option was implemented effective September 1, 2021 based on PUC's Opinion and Order in PECO's Fifth Default Service Plan ("DSP V") at Docket No. P-2020-3019290.

(5) Peak period refers to 2:00 p.m. through 6:00 p.m., Monday through Friday, excluding PJM holidays; Super Off-Peak period refers to midnight (12 a.m.) through 6 a.m., every day;
Off-Peak period refers to all other hours that are not Peak and Super Off-Peak periods.

Updated as of 7/17/2025

PECO Price to Compare Effective June 1, 2025 through August 31, 2025

(ACTUAL)

Hourly Price Adder for Procurement Class 3/4 (Demand > 100KW) - Consolidated Large Commercial & Industrial Customers [5]

Business Rate Classes	Adder to determine Price to Compare (cents/kWh) [1] (A) = (B) + (C)	Hourly Price Adder (cents/kWh) [2], [3] (B)	Transmission Charge (cents/kWh) [4] (C)
General Service (GS)	**1.792**	1.061	0.731
Primary - Distribution Power (PD)	**1.644**	1.047	0.597
High - Tension Power (HT)	**1.612**	1.015	0.597
Electric Propulsion (EP)	**1.612**	1.015	0.597

PECO Price to Compare Effective September 1, 2025 through November 30, 2025

(ACTUAL)

Hourly Price Adder for Procurement Class 3/4 (Demand > 100KW) - Consolidated Large Commercial & Industrial Customers [5]

Business Rate Classes	Adder to determine Price to Compare (cents/kWh) [1] (A) = (B) + (C)	Hourly Price Adder (cents/kWh) [2], [3] (B)	Transmission Charge (cents/kWh) [4] (C)
General Service (GS)	**1.569**	0.838	0.731
Primary - Distribution Power (PD)	**1.426**	0.829	0.597
High - Tension Power (HT)	**1.402**	0.805	0.597
Electric Propulsion (EP)	**1.402**	0.805	0.597

Notes:

(1) The Adder to determine Price to Compare includes an adjustment for Gross Receipts Tax of 5.90% effective 01/01/2012.

(2) The hourly price adder includes administrative charge, working capital charge, E factor, ancillary charge and alternative energy portfolio standard costs purchased on behalf of PECO. The adder excludes the costs of energy and capacity which are passed through at the real time price. The administrative charge includes the costs of the auction or RFP monitor, consultants providing guidance on the development of the procurement strategy, legal fees incurred gaining approval of the strategy, and any other costs associated with the design and implementation of the procurement plan. The E factor reflects over/under recovery of costs

(3) Alternative Energy Portfolio Standard (AEPS) Charge is the electric service charge for recovery of the costs associated with compliance with the AEPS Act. AEPS is included in the Hourly Price Adder.

(4) Transmission Charge is based on the PUC Orders, Docket No. R-2012-2318065, entered on September 27, 2012 and Docket No. P-2014-2409362, entered on December 4, 2014.

(5) Effective June 1, 2017, Procurement Class 3 and 4 was consolidated into a single procurement class (Procurement Class 3/4) and the rates will change on a quarterly basis in compliance with Docket No. P-2016-2534980.

EXHIBIT LG-11

Price to Compare (PTC) Sample Calculation DISCLAIMER

Disclaimer

This document does not include factors/adders such as surcharges and sales taxes applicable to PECO distribution service. The PTC contained herein contains best-known values and will be updated as needed in accordance with PECO's Default Service Program ("DSP V") Order at Docket No. P-2024-3046008.

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PECO Energy Company
Price to Compare (PTC) Sample Calculation Methodology

The purpose of this document is to explain the methodology used to estimate the costs that are components of the sample PTC calculation model (see Appendix I – PTC Sample Calculations – Small Commercial and Industrial) –

Line 1 – Generation Charge consists of C Factor, E Factor, Administrative Cost Factor, Working Capital Factor and AEPS factor (additional AEPS cost not included in C Factor costs).

Line 2 – Default Supplier Full Requirement Costs are the costs related to all necessary energy, capacity, transmission service other than network integration transmission service, ancillary services, AECs for compliance with the AEPS Act, transmission and distribution losses, congestion management costs, and such other services or products that are required to supply the specified percentage of a procurement class's load except for distribution service.

Line 3 – This line consists of Miscellaneous Costs, which include the allocations of Net Metering.

Line 4 – The sum of Default Supplier Full Requirement Costs and Miscellaneous Costs equals the C factor costs prior to the applications of the Overall Line Loss factor ratio and Gross Receipts Tax (GRT).

Line 5 – Overall Line Loss Factor Ratio = (1-ALL)/(1-LL); ALL refers to the average line loss factor for the procurement class, LL refers to the line loss factor for each specific rate class in the procurement class.

Line 6 – The C Factor is adjusted by the Overall Line Loss factor ratio. Line losses for the specific rate class can be obtained from PECO Energy Company's Electric Generation Supplier Coordination Tariff.

Line 7 – The C Factor is further adjusted by GRT. Based on the Notice from Pennsylvania Bulletin Doc. No. 24-1358, GRT is 5.90% for the Tax Year Beginning January 1, 2025. The GRT adjusted factor is 1/(1-5.90%) = 1.0627.

Line 8 – Final C Factor

Line 9 – The E factor is the experienced over or under collection calculated under the reconciliation provision of the Generation Supply Adjustment (GSA).

Line 10 – Administrative Cost Factor includes the costs of the auction or Request for Proposal (RFP) monitor, consultants providing guidance on the development of the procurement plan, legal fees incurred gaining approval the plan, and any other costs associated with designing and implementing a procurement plan.

Line 11 – Working Capital Factor is the charge to compensate PECO for costs incurred by the utility during the period between when service to its default service customers was rendered and payment is received.

Line 12 – AEPS Factor is the energy charge for electric service for all rate schedules to recover the costs associated with compliance with the AEPS Act.

Line 13 – Generation Charge is the sum of the C Factor, E Factor, Administrative Cost Factor, Working Capital Factor and AEPS Factor.

Line 14 – The PTC consists of the Generation Charge and Transmission Charge.

Line 15 – The Generation Charge is from the Line 13.

Line 16 – Transmission Charge provides for full and current cost recovery of all transmission service related costs incurred under the PJM open access transmission tariff on behalf of PECO's default service load. The cost is allocated to all default service customers in each rate class based upon the coincident peak used by PJM to establish the network service obligation.

Line 17 – PTC: The sum of the Generation Charge and Transmission Charge.

Appendix I – PTC Sample Calculations – Small Commercial and Industrial

PECO Energy Company
Price to Compare ("PTC") Sample Calculation
For Illustrative Purposes Only
Small Commercial & Industrial Class (Up to 100KW) - Rate GS

Line No.	June 1, 2025 through November 30, 2025		
1	**Generation Charge = C Factor + E Factor + Administrative Cost Factor + Working Capital Factor + AEPS Factor**		
2	Default Supplier Full Requirements Costs	8.423	cents/kWh
3	Misc Costs	0.000	cents/kWh
4	Subtotal, ***Line 4 = Line 2 + Line 3***	8.423	cents/kWh
5	Multiplied by Overall Line Loss Factor Ratio *(See Note A)*	1.0008	
6	Subtotal, ***Line 6 = Line 4 X Line 5***	8.430	cents/kWh
7	Multiplied by Adjustment Factor for Gross Receipts Tax, 1/(1-T), T = 5.90%	1.0627	
8	C Factor, ***Line 8 = Line 6 X Line 7,*** *(See Note B)*	**8.959**	cents/kWh
9	E Factor - Reconciliation *(See Note C)*	**-0.346**	cents/kWh
10	Administrative Cost Factor *(See Note C)*	**0.003**	cents/kWh
11	Working Capital Factor *(See Note C)*	**0.035**	cents/kWh
12	AEPS Factor *(See Note C)*	**0.000**	cents/kWh
13	Generation Charge, ***Line 13 = Line 8 + Line 9 + Line 10 + Line 11 + Line 12***	**8.651**	
14	**PTC = Generation Charge + Transmission Charge**		cents/kWh
15	*Generation Charge,* ***from Line 13***	**8.651**	cents/kWh
16	*Transmission Charge (See Note D)*	**0.731**	cents/kWh
17	**Small Commercial & Industrial Class (Rate GS) PTC,** ***Line 17 = Line 15 + Line 16***	**9.382**	cents/kWh

Notes

(A) Overall Line Loss Factor Ratio = (1-ALL)/(1-LL); ALL refers to the average line loss factor for the procurement class, LL refers to the line loss factor for the specific rate class.
For purpose of forecasting, the transmission and distribution line loss percentages for Rate GS is 9.35%, the average line loss factor for Small Commercial & Industrial class is 9.28%.

(B) C Factor costs include energy, capacity, ancillary service and other costs. See PECO's Electric Tariff for details.

(C) E Factor and Administrative Cost Factor include the adjustments of overall line loss factor ratio and Gross Receipts Tax (GRT).
Working Capital Factor and AEPS Factor include GRT adjustment.

(D) Transmission Charge includes GRT adjustment.

PECO Energy Company
Hourly Price Adder Sample Calculation
For Illustrative Purposes Only
Medium and Large Commercial & Industrial Class (> 100KW) - Rate HT (Hourly Pricing)

Line No.	June 1, 2025 through August 31, 2025		
1	**Generation Hourly Price Adder = AS and AEPS Factor + E Factor + Administrative Cost Factor + Working Capital Factor**		
2	AS and AEPS Factor - Default Supplier Ancillary Services Costs, AEPS Compliance and Misc Costs	0.725	cents/kWh
3	Multiplied by Overall Line Loss Factor Ratio *(See Note A)*	0.9885	
4	Subtotal, ***Line 4 = Line 2 X Line 3***	0.717	cents/kWh
5	Multiplied by Adjustment Factor for Gross Receipts Tax, 1/(1-T), T = 5.90%	1.0627	
6	AS and AEPS Factor, ***Line 6 = Line 4 X Line 5***	**0.762**	cents/kWh
7	E Factor - Reconciliation *(See Note B)*	**0.215**	cents/kWh
8	Administrative Cost Factor *(See Note B)*	**0.003**	cents/kWh
9	Working Capital Factor *(See Note B)*	**0.035**	cents/kWh
10	**Generation Hourly Price Adder**, ***Line 10 = Line 6 + Line 7 + Line 8 + Line 9***	**1.015**	cents/kWh
11	**Hourly Price Adder to determine PTC = Generation Hourly Price Adder + Transmission Charge**		
12	*Generation Hourly Price Adder,* ***from Line 10***	**1.015**	cents/kWh
13	*Transmission Charge (See Note C)*	**0.597**	cents/kWh
14	**Medium and Large Commercial & Industrial Class (Rate HT) Hourly Price Adder,** ***Line 14 = Line 12 + Line 13***	**1.612**	cents/kWh

Notes

(A) Overall Line Loss Factor Ratio = (1-ALL)/(1-LL); ALL refers to the average line loss factor for the procurement class, LL refers to the line loss factor for the specific rate class.
For purpose of forecasting, the transmission and distribution line loss percentages for Rate HT is 3.82%, the average line loss factor for Medium and Large Commercial & Industrial class (Hourly Pricing) is 4.93%.

(B) E Factor, Administrative Cost Factor and Working Capital Factor include GRT adjustment.

(C) Transmission Charge includes GRT adjustment.

EXHIBIT LG-12

Filters: Measuring Component ID 569621546418, Start Date/Time 2025-06-14-23.00.00, End Date/Time 2025-07-15-23.00.00, Days Prior to Latest Date/Time 45

Measurement kWh - Received	Additional Details	Measurement Date/Time
0	Condition: Regular	07-16-2025 12:00AM EDT
0	Condition: Regular	07-15-2025 11:45PM EDT
0	Condition: Regular	07-15-2025 11:30PM EDT
0	Condition: Regular	07-15-2025 11:15PM EDT
0	Condition: Regular	07-15-2025 11:00PM EDT
0	Condition: Regular	07-15-2025 10:45PM EDT
0	Condition: Regular	07-15-2025 10:30PM EDT
0	Condition: Regular	07-15-2025 10:15PM EDT
0	Condition: Regular	07-15-2025 10:00PM EDT
0	Condition: Regular	07-15-2025 09:45PM EDT
0	Condition: Regular	07-15-2025 09:30PM EDT
0	Condition: Regular	07-15-2025 09:15PM EDT
0	Condition: Regular	07-15-2025 09:00PM EDT
0	Condition: Regular	07-15-2025 08:45PM EDT
0	Condition: Regular	07-15-2025 08:30PM EDT
0	Condition: Regular	07-15-2025 08:15PM EDT
0	Condition: Regular	07-15-2025 08:00PM EDT
0	Condition: Regular	07-15-2025 07:45PM EDT
0	Condition: Regular	07-15-2025 07:30PM EDT
1.92	Condition: Regular	07-15-2025 07:15PM EDT
12.48	Condition: Regular	07-15-2025 07:00PM EDT
19.2	Condition: Regular	07-15-2025 06:45PM EDT
24.96	Condition: Regular	07-15-2025 06:30PM EDT
30.72	Condition: Regular	07-15-2025 06:15PM EDT
36.48	Condition: Regular	07-15-2025 06:00PM EDT
42.24	Condition: Regular	07-15-2025 05:45PM EDT
48	Condition: Regular	07-15-2025 05:30PM EDT
52.8	Condition: Regular	07-15-2025 05:15PM EDT
52.8	Condition: Regular	07-15-2025 05:00PM EDT
39.36	Condition: Regular	07-15-2025 04:45PM EDT
31.68	Condition: Regular	07-15-2025 04:30PM EDT
53.76	Condition: Regular	07-15-2025 04:15PM EDT
64.32	Condition: Regular	07-15-2025 04:00PM EDT
62.4	Condition: Regular	07-15-2025 03:45PM EDT
43.2	Condition: Regular	07-15-2025 03:30PM EDT
16.32	Condition: Regular	07-15-2025 03:15PM EDT
79.68	Condition: Regular	07-15-2025 03:00PM EDT
35.52	Condition: Regular	07-15-2025 02:45PM EDT
23.04	Condition: Regular	07-15-2025 02:30PM EDT
26.88	Condition: Regular	07-15-2025 02:15PM EDT
39.36	Condition: Regular	07-15-2025 02:00PM EDT
50.88	Condition: Regular	07-15-2025 01:45PM EDT
42.24	Condition: Regular	07-15-2025 01:30PM EDT
44.16	Condition: Regular	07-15-2025 01:15PM EDT
32.64	Condition: Regular	07-15-2025 01:00PM EDT
27.84	Condition: Regular	07-15-2025 12:45PM EDT
21.12	Condition: Regular	07-15-2025 12:30PM EDT
18.24	Condition: Regular	07-15-2025 12:15PM EDT
24	Condition: Regular	07-15-2025 12:00PM EDT
19.2	Condition: Regular	07-15-2025 11:45AM EDT
15.36	Condition: Regular	07-15-2025 11:30AM EDT
6.72	Condition: Regular	07-15-2025 11:15AM EDT
7.68	Condition: Regular	07-15-2025 11:00AM EDT
13.44	Condition: Regular	07-15-2025 10:45AM EDT
19.2	Condition: Regular	07-15-2025 10:30AM EDT
6.72	Condition: Regular	07-15-2025 10:15AM EDT
6.72	Condition: Regular	07-15-2025 10:00AM EDT
12.48	Condition: Regular	07-15-2025 09:45AM EDT
13.44	Condition: Regular	07-15-2025 09:30AM EDT
12.48	Condition: Regular	07-15-2025 09:15AM EDT
8.64	Condition: Regular	07-15-2025 09:00AM EDT
7.68	Condition: Regular	07-15-2025 08:45AM EDT
6.72	Condition: Regular	07-15-2025 08:30AM EDT
4.8	Condition: Regular	07-15-2025 08:15AM EDT
4.8	Condition: Regular	07-15-2025 08:00AM EDT
0.96	Condition: Regular	07-15-2025 07:45AM EDT
1.92	Condition: Regular	07-15-2025 07:30AM EDT

0.96	Condition: Regular	07-15-2025 07:15AM EDT
0	Condition: Regular	07-15-2025 07:00AM EDT
0	Condition: Regular	07-15-2025 06:45AM EDT
0	Condition: Regular	07-15-2025 06:30AM EDT
0	Condition: Regular	07-15-2025 06:15AM EDT
0	Condition: Regular	07-15-2025 06:00AM EDT
0	Condition: Regular	07-15-2025 05:45AM EDT
0	Condition: Regular	07-15-2025 05:30AM EDT
0	Condition: Regular	07-15-2025 05:15AM EDT
0	Condition: Regular	07-15-2025 05:00AM EDT
0	Condition: Regular	07-15-2025 04:45AM EDT
0	Condition: Regular	07-15-2025 04:30AM EDT
0	Condition: Regular	07-15-2025 04:15AM EDT
0	Condition: Regular	07-15-2025 04:00AM EDT
0	Condition: Regular	07-15-2025 03:45AM EDT
0	Condition: Regular	07-15-2025 03:30AM EDT
0	Condition: Regular	07-15-2025 03:15AM EDT
0	Condition: Regular	07-15-2025 03:00AM EDT
0	Condition: Regular	07-15-2025 02:45AM EDT
0	Condition: Regular	07-15-2025 02:30AM EDT
0	Condition: Regular	07-15-2025 02:15AM EDT
0	Condition: Regular	07-15-2025 02:00AM EDT
0	Condition: Regular	07-15-2025 01:45AM EDT
0	Condition: Regular	07-15-2025 01:30AM EDT
0	Condition: Regular	07-15-2025 01:15AM EDT
0	Condition: Regular	07-15-2025 01:00AM EDT
0	Condition: Regular	07-15-2025 12:45AM EDT
0	Condition: Regular	07-15-2025 12:30AM EDT
0	Condition: Regular	07-15-2025 12:15AM EDT
0	Condition: Regular	07-15-2025 12:00AM EDT
0	Condition: Regular	07-14-2025 11:45PM EDT
0	Condition: Regular	07-14-2025 11:30PM EDT
0	Condition: Regular	07-14-2025 11:15PM EDT
0	Condition: Regular	07-14-2025 11:00PM EDT
0	Condition: Regular	07-14-2025 10:45PM EDT
0	Condition: Regular	07-14-2025 10:30PM EDT
0	Condition: Regular	07-14-2025 10:15PM EDT
0	Condition: Regular	07-14-2025 10:00PM EDT
0	Condition: Regular	07-14-2025 09:45PM EDT
0	Condition: Regular	07-14-2025 09:30PM EDT
0	Condition: Regular	07-14-2025 09:15PM EDT
0	Condition: Regular	07-14-2025 09:00PM EDT
0	Condition: Regular	07-14-2025 08:45PM EDT
0	Condition: Regular	07-14-2025 08:30PM EDT
0	Condition: Regular	07-14-2025 08:15PM EDT
0	Condition: Regular	07-14-2025 08:00PM EDT
0	Condition: Regular	07-14-2025 07:45PM EDT
0	Condition: Regular	07-14-2025 07:30PM EDT
0	Condition: Regular	07-14-2025 07:15PM EDT
0	Condition: Regular	07-14-2025 07:00PM EDT
0	Condition: Regular	07-14-2025 06:45PM EDT
0	Condition: Regular	07-14-2025 06:30PM EDT
0	Condition: Regular	07-14-2025 06:15PM EDT
0	Condition: Regular	07-14-2025 06:00PM EDT
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7.68	Condition: Regular	07-14-2025 09:15AM EDT
7.68	Condition: Regular	07-14-2025 09:00AM EDT
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37.44	Condition: Regular	07-13-2025 02:15PM EDT
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30.72	Condition: Regular	07-10-2025 02:30PM EDT
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9.6	Condition: Regular	07-10-2025 10:00AM EDT
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56.64	Condition: Regular	07-06-2025 10:30AM EDT

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67.2	Condition: Regular	07-05-2025 03:15PM EDT
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70.08	Condition: Regular	07-05-2025 02:45PM EDT
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54.72	Condition: Regular	07-05-2025 10:30AM EDT
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53.76	Condition: Regular	07-04-2025 04:30PM EDT
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74.88	Condition: Regular	07-04-2025 01:15PM EDT
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27.84	Condition: Regular	07-02-2025 06:00PM EDT
22.08	Condition: Regular	07-02-2025 05:45PM EDT

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47.04	Condition: Regular	07-02-2025 05:15PM EDT
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53.76	Condition: Regular	07-02-2025 04:30PM EDT
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42.24	Condition: Regular	07-02-2025 01:00PM EDT
36.48	Condition: Regular	07-02-2025 12:45PM EDT
31.68	Condition: Regular	07-02-2025 12:30PM EDT
35.52	Condition: Regular	07-02-2025 12:15PM EDT
36.48	Condition: Regular	07-02-2025 12:00PM EDT
26.88	Condition: Regular	07-02-2025 11:45AM EDT
31.68	Condition: Regular	07-02-2025 11:30AM EDT
32.64	Condition: Regular	07-02-2025 11:15AM EDT
24	Condition: Regular	07-02-2025 11:00AM EDT
18.24	Condition: Regular	07-02-2025 10:45AM EDT
13.44	Condition: Regular	07-02-2025 10:30AM EDT
18.24	Condition: Regular	07-02-2025 10:15AM EDT
24.96	Condition: Regular	07-02-2025 10:00AM EDT
22.08	Condition: Regular	07-02-2025 09:45AM EDT
10.56	Condition: Regular	07-02-2025 09:30AM EDT
3.84	Condition: Regular	07-02-2025 09:15AM EDT
3.84	Condition: Regular	07-02-2025 09:00AM EDT
3.84	Condition: Regular	07-02-2025 08:45AM EDT
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71.04	Condition: Regular	07-01-2025 02:00PM EDT
12.48	Condition: Regular	07-01-2025 01:45PM EDT
3.84	Condition: Regular	07-01-2025 01:30PM EDT
48	Condition: Regular	07-01-2025 01:15PM EDT
60.48	Condition: Regular	07-01-2025 01:00PM EDT
54.72	Condition: Regular	07-01-2025 12:45PM EDT
29.76	Condition: Regular	07-01-2025 12:30PM EDT
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44.16	Condition: Regular	07-01-2025 12:00PM EDT
56.64	Condition: Regular	07-01-2025 11:45AM EDT
51.84	Condition: Regular	07-01-2025 11:30AM EDT
56.64	Condition: Regular	07-01-2025 11:15AM EDT
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48	Condition: Regular	07-01-2025 10:15AM EDT
48	Condition: Regular	07-01-2025 10:00AM EDT
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24	Condition: Regular	07-01-2025 08:00AM EDT
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21.12	Condition: Regular	06-30-2025 06:45PM EDT
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71.04	Condition: Regular	06-30-2025 01:30PM EDT
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53.76	Condition: Regular	06-30-2025 01:00PM EDT
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60.48	Condition: Regular	06-30-2025 12:30PM EDT

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19.2	Condition: Regular	06-29-2025 06:30PM EDT
22.08	Condition: Regular	06-29-2025 06:15PM EDT
26.88	Condition: Regular	06-29-2025 06:00PM EDT
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41.28	Condition: Regular	06-29-2025 05:30PM EDT
40.32	Condition: Regular	06-29-2025 05:15PM EDT
47.04	Condition: Regular	06-29-2025 05:00PM EDT
49.92	Condition: Regular	06-29-2025 04:45PM EDT
53.76	Condition: Regular	06-29-2025 04:30PM EDT
56.64	Condition: Regular	06-29-2025 04:15PM EDT
60.48	Condition: Regular	06-29-2025 04:00PM EDT
49.92	Condition: Regular	06-29-2025 03:45PM EDT
42.24	Condition: Regular	06-29-2025 03:30PM EDT
56.64	Condition: Regular	06-29-2025 03:15PM EDT
51.84	Condition: Regular	06-29-2025 03:00PM EDT
71.04	Condition: Regular	06-29-2025 02:45PM EDT
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30.72	Condition: Regular	06-29-2025 02:15PM EDT
25.92	Condition: Regular	06-29-2025 02:00PM EDT
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73.92	Condition: Regular	06-29-2025 12:00PM EDT
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4.8	Condition: Regular	06-28-2025 07:00PM EDT
16.32	Condition: Regular	06-28-2025 06:45PM EDT
18.24	Condition: Regular	06-28-2025 06:30PM EDT
23.04	Condition: Regular	06-28-2025 06:15PM EDT
27.84	Condition: Regular	06-28-2025 06:00PM EDT
34.56	Condition: Regular	06-28-2025 05:45PM EDT
38.4	Condition: Regular	06-28-2025 05:30PM EDT
41.28	Condition: Regular	06-28-2025 05:15PM EDT
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49.92	Condition: Regular	06-28-2025 04:45PM EDT
45.12	Condition: Regular	06-28-2025 04:30PM EDT
54.72	Condition: Regular	06-28-2025 04:15PM EDT
56.64	Condition: Regular	06-28-2025 04:00PM EDT
56.64	Condition: Regular	06-28-2025 03:45PM EDT
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72.96	Condition: Regular	06-28-2025 02:15PM EDT
70.08	Condition: Regular	06-28-2025 02:00PM EDT
67.2	Condition: Regular	06-28-2025 01:45PM EDT
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58.56	Condition: Regular	06-28-2025 12:15PM EDT
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52.8	Condition: Regular	06-28-2025 11:45AM EDT
49.92	Condition: Regular	06-28-2025 11:30AM EDT
44.16	Condition: Regular	06-28-2025 11:15AM EDT
37.44	Condition: Regular	06-28-2025 11:00AM EDT
44.16	Condition: Regular	06-28-2025 10:45AM EDT
42.24	Condition: Regular	06-28-2025 10:30AM EDT
30.72	Condition: Regular	06-28-2025 10:15AM EDT
21.12	Condition: Regular	06-28-2025 10:00AM EDT
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10.56	Condition: Regular	06-28-2025 09:30AM EDT
18.24	Condition: Regular	06-28-2025 09:15AM EDT
18.24	Condition: Regular	06-28-2025 09:00AM EDT
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15.36	Condition: Regular	06-28-2025 08:30AM EDT
7.68	Condition: Regular	06-28-2025 08:15AM EDT
9.6	Condition: Regular	06-28-2025 08:00AM EDT
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9.6	Condition: Regular	06-27-2025 04:45PM EDT
4.8	Condition: Regular	06-27-2025 04:30PM EDT
8.64	Condition: Regular	06-27-2025 04:15PM EDT
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8.64	Condition: Regular	06-27-2025 03:15PM EDT
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4.8	Condition: Regular	06-27-2025 02:30PM EDT
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18.24	Condition: Regular	06-27-2025 01:30PM EDT

6.72	Condition: Regular	06-27-2025 01:15PM EDT
6.72	Condition: Regular	06-27-2025 01:00PM EDT
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3.84	Condition: Regular	06-27-2025 12:15PM EDT
1.92	Condition: Regular	06-27-2025 12:00PM EDT
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68.16	Condition: Regular	06-26-2025 02:30PM EDT
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5.76	Condition: Regular	06-19-2025 03:30PM EDT
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50.88	Condition: Regular	06-19-2025 10:15AM EDT

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16.32	Condition: Regular	06-19-2025 08:00AM EDT
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1.92	Condition: Regular	06-16-2025 09:15AM EDT
1.92	Condition: Regular	06-16-2025 09:00AM EDT
0	Condition: Regular	06-16-2025 08:45AM EDT
0	Condition: Regular	06-16-2025 08:30AM EDT
0	Condition: Regular	06-16-2025 08:15AM EDT
0	Condition: Regular	06-16-2025 08:00AM EDT
0	Condition: Regular	06-16-2025 07:45AM EDT
0	Condition: Regular	06-16-2025 07:30AM EDT
0	Condition: Regular	06-16-2025 07:15AM EDT
0	Condition: Regular	06-16-2025 07:00AM EDT
0	Condition: Regular	06-16-2025 06:45AM EDT
0	Condition: Regular	06-16-2025 06:30AM EDT
0	Condition: Regular	06-16-2025 06:15AM EDT
0	Condition: Regular	06-16-2025 06:00AM EDT
0	Condition: Regular	06-16-2025 05:45AM EDT
0	Condition: Regular	06-16-2025 05:30AM EDT
0	Condition: Regular	06-16-2025 05:15AM EDT
0	Condition: Regular	06-16-2025 05:00AM EDT
0	Condition: Regular	06-16-2025 04:45AM EDT
0	Condition: Regular	06-16-2025 04:30AM EDT
0	Condition: Regular	06-16-2025 04:15AM EDT
0	Condition: Regular	06-16-2025 04:00AM EDT
0	Condition: Regular	06-16-2025 03:45AM EDT
0	Condition: Regular	06-16-2025 03:30AM EDT
0	Condition: Regular	06-16-2025 03:15AM EDT
0	Condition: Regular	06-16-2025 03:00AM EDT
0	Condition: Regular	06-16-2025 02:45AM EDT
0	Condition: Regular	06-16-2025 02:30AM EDT
0	Condition: Regular	06-16-2025 02:15AM EDT
0	Condition: Regular	06-16-2025 02:00AM EDT
0	Condition: Regular	06-16-2025 01:45AM EDT
0	Condition: Regular	06-16-2025 01:30AM EDT
0	Condition: Regular	06-16-2025 01:15AM EDT
0	Condition: Regular	06-16-2025 01:00AM EDT
0	Condition: Regular	06-16-2025 12:45AM EDT
0	Condition: Regular	06-16-2025 12:30AM EDT
0	Condition: Regular	06-16-2025 12:15AM EDT
47,112		

Filters: Measuring Component ID 000963685627, Start Date/Time 2025-06-14-23.00.00, End Date/Time 2025-07-15-23.00.00, Days Prior to Latest Date/Time 45

Measurement kWh - Received	Additional Details	Measurement Date/Time
0	Condition: Regular	07-16-2025 12:00AM EDT
0	Condition: Regular	07-15-2025 11:45PM EDT
0	Condition: Regular	07-15-2025 11:30PM EDT
0	Condition: Regular	07-15-2025 11:15PM EDT
0	Condition: Regular	07-15-2025 11:00PM EDT
0	Condition: Regular	07-15-2025 10:45PM EDT
0	Condition: Regular	07-15-2025 10:30PM EDT
0	Condition: Regular	07-15-2025 10:15PM EDT
0	Condition: Regular	07-15-2025 10:00PM EDT
0	Condition: Regular	07-15-2025 09:45PM EDT
0	Condition: Regular	07-15-2025 09:30PM EDT
0	Condition: Regular	07-15-2025 09:15PM EDT
0	Condition: Regular	07-15-2025 09:00PM EDT
0	Condition: Regular	07-15-2025 08:45PM EDT
0	Condition: Regular	07-15-2025 08:30PM EDT
0	Condition: Regular	07-15-2025 08:15PM EDT
0	Condition: Regular	07-15-2025 08:00PM EDT
2.4	Condition: Regular	07-15-2025 07:45PM EDT
2.4	Condition: Regular	07-15-2025 07:30PM EDT
16.8	Condition: Regular	07-15-2025 07:15PM EDT
43.2	Condition: Regular	07-15-2025 07:00PM EDT
62.4	Condition: Regular	07-15-2025 06:45PM EDT
81.6	Condition: Regular	07-15-2025 06:30PM EDT
96	Condition: Regular	07-15-2025 06:15PM EDT
112.8	Condition: Regular	07-15-2025 06:00PM EDT
122.4	Condition: Regular	07-15-2025 05:45PM EDT
134.4	Condition: Regular	07-15-2025 05:30PM EDT
148.8	Condition: Regular	07-15-2025 05:15PM EDT
146.4	Condition: Regular	07-15-2025 05:00PM EDT
115.2	Condition: Regular	07-15-2025 04:45PM EDT
88.8	Condition: Regular	07-15-2025 04:30PM EDT
160.8	Condition: Regular	07-15-2025 04:15PM EDT
180	Condition: Regular	07-15-2025 04:00PM EDT
170.4	Condition: Regular	07-15-2025 03:45PM EDT
112.8	Condition: Regular	07-15-2025 03:30PM EDT
40.8	Condition: Regular	07-15-2025 03:15PM EDT
182.4	Condition: Regular	07-15-2025 03:00PM EDT
67.2	Condition: Regular	07-15-2025 02:45PM EDT
48	Condition: Regular	07-15-2025 02:30PM EDT
79.2	Condition: Regular	07-15-2025 02:15PM EDT
124.8	Condition: Regular	07-15-2025 02:00PM EDT
91.2	Condition: Regular	07-15-2025 01:45PM EDT
124.8	Condition: Regular	07-15-2025 01:30PM EDT
112.8	Condition: Regular	07-15-2025 01:15PM EDT
84	Condition: Regular	07-15-2025 01:00PM EDT
69.6	Condition: Regular	07-15-2025 12:45PM EDT
52.8	Condition: Regular	07-15-2025 12:30PM EDT
48	Condition: Regular	07-15-2025 12:15PM EDT
57.6	Condition: Regular	07-15-2025 12:00PM EDT
48	Condition: Regular	07-15-2025 11:45AM EDT
31.2	Condition: Regular	07-15-2025 11:30AM EDT
9.6	Condition: Regular	07-15-2025 11:15AM EDT
16.8	Condition: Regular	07-15-2025 11:00AM EDT
33.6	Condition: Regular	07-15-2025 10:45AM EDT
45.6	Condition: Regular	07-15-2025 10:30AM EDT
14.4	Condition: Regular	07-15-2025 10:15AM EDT
12	Condition: Regular	07-15-2025 10:00AM EDT
28.8	Condition: Regular	07-15-2025 09:45AM EDT
33.6	Condition: Regular	07-15-2025 09:30AM EDT
31.2	Condition: Regular	07-15-2025 09:15AM EDT
21.6	Condition: Regular	07-15-2025 09:00AM EDT
19.2	Condition: Regular	07-15-2025 08:45AM EDT
16.8	Condition: Regular	07-15-2025 08:30AM EDT
12	Condition: Regular	07-15-2025 08:15AM EDT
12	Condition: Regular	07-15-2025 08:00AM EDT
2.4	Condition: Regular	07-15-2025 07:45AM EDT
7.2	Condition: Regular	07-15-2025 07:30AM EDT

4.8	Condition: Regular	07-15-2025 07:15AM EDT
0	Condition: Regular	07-15-2025 07:00AM EDT
0	Condition: Regular	07-15-2025 06:45AM EDT
0	Condition: Regular	07-15-2025 06:30AM EDT
0	Condition: Regular	07-15-2025 06:15AM EDT
0	Condition: Regular	07-15-2025 06:00AM EDT
0	Condition: Regular	07-15-2025 05:45AM EDT
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0	Condition: Regular	07-15-2025 04:00AM EDT
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0	Condition: Regular	07-14-2025 08:15PM EDT
0	Condition: Regular	07-14-2025 08:00PM EDT
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0	Condition: Regular	07-14-2025 06:15PM EDT
0	Condition: Regular	07-14-2025 06:00PM EDT
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0	Condition: Regular	07-14-2025 05:30PM EDT
0	Condition: Regular	07-14-2025 05:15PM EDT
0	Condition: Regular	07-14-2025 05:00PM EDT
0	Condition: Regular	07-14-2025 04:45PM EDT
4.8	Condition: Regular	07-14-2025 04:30PM EDT
19.2	Condition: Regular	07-14-2025 04:15PM EDT
120	Condition: Regular	07-14-2025 04:00PM EDT
132	Condition: Regular	07-14-2025 03:45PM EDT
16.8	Condition: Regular	07-14-2025 03:30PM EDT
91.2	Condition: Regular	07-14-2025 03:15PM EDT
139.2	Condition: Regular	07-14-2025 03:00PM EDT
156	Condition: Regular	07-14-2025 02:45PM EDT
160.8	Condition: Regular	07-14-2025 02:30PM EDT
192	Condition: Regular	07-14-2025 02:15PM EDT
112.8	Condition: Regular	07-14-2025 02:00PM EDT
160.8	Condition: Regular	07-14-2025 01:45PM EDT

184.8	Condition: Regular	07-14-2025 01:30PM EDT
189.6	Condition: Regular	07-14-2025 01:15PM EDT
139.2	Condition: Regular	07-14-2025 01:00PM EDT
98.4	Condition: Regular	07-14-2025 12:45PM EDT
146.4	Condition: Regular	07-14-2025 12:30PM EDT
172.8	Condition: Regular	07-14-2025 12:15PM EDT
189.6	Condition: Regular	07-14-2025 12:00PM EDT
105.6	Condition: Regular	07-14-2025 11:45AM EDT
120	Condition: Regular	07-14-2025 11:30AM EDT
76.8	Condition: Regular	07-14-2025 11:15AM EDT
88.8	Condition: Regular	07-14-2025 11:00AM EDT
105.6	Condition: Regular	07-14-2025 10:45AM EDT
100.8	Condition: Regular	07-14-2025 10:30AM EDT
76.8	Condition: Regular	07-14-2025 10:15AM EDT
74.4	Condition: Regular	07-14-2025 10:00AM EDT
72	Condition: Regular	07-14-2025 09:45AM EDT
43.2	Condition: Regular	07-14-2025 09:30AM EDT
21.6	Condition: Regular	07-14-2025 09:15AM EDT
16.8	Condition: Regular	07-14-2025 09:00AM EDT
26.4	Condition: Regular	07-14-2025 08:45AM EDT
38.4	Condition: Regular	07-14-2025 08:30AM EDT
14.4	Condition: Regular	07-14-2025 08:15AM EDT
12	Condition: Regular	07-14-2025 08:00AM EDT
16.8	Condition: Regular	07-14-2025 07:45AM EDT
24	Condition: Regular	07-14-2025 07:30AM EDT
9.6	Condition: Regular	07-14-2025 07:15AM EDT
2.4	Condition: Regular	07-14-2025 07:00AM EDT
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0	Condition: Regular	07-14-2025 06:30AM EDT
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0	Condition: Regular	07-14-2025 05:15AM EDT
0	Condition: Regular	07-14-2025 05:00AM EDT
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0	Condition: Regular	07-14-2025 04:15AM EDT
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0	Condition: Regular	07-13-2025 11:00PM EDT
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0	Condition: Regular	07-13-2025 10:15PM EDT
0	Condition: Regular	07-13-2025 10:00PM EDT
0	Condition: Regular	07-13-2025 09:45PM EDT
0	Condition: Regular	07-13-2025 09:30PM EDT
0	Condition: Regular	07-13-2025 09:15PM EDT
0	Condition: Regular	07-13-2025 09:00PM EDT
0	Condition: Regular	07-13-2025 08:45PM EDT
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0	Condition: Regular	07-13-2025 08:15PM EDT
0	Condition: Regular	07-13-2025 08:00PM EDT

0	Condition: Regular	07-13-2025 07:45PM EDT
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9.6	Condition: Regular	07-13-2025 07:15PM EDT
21.6	Condition: Regular	07-13-2025 07:00PM EDT
16.8	Condition: Regular	07-13-2025 06:45PM EDT
26.4	Condition: Regular	07-13-2025 06:30PM EDT
52.8	Condition: Regular	07-13-2025 06:15PM EDT
64.8	Condition: Regular	07-13-2025 06:00PM EDT
84	Condition: Regular	07-13-2025 05:45PM EDT
69.6	Condition: Regular	07-13-2025 05:30PM EDT
48	Condition: Regular	07-13-2025 05:15PM EDT
45.6	Condition: Regular	07-13-2025 05:00PM EDT
52.8	Condition: Regular	07-13-2025 04:45PM EDT
98.4	Condition: Regular	07-13-2025 04:30PM EDT
62.4	Condition: Regular	07-13-2025 04:15PM EDT
55.2	Condition: Regular	07-13-2025 04:00PM EDT
74.4	Condition: Regular	07-13-2025 03:45PM EDT
180	Condition: Regular	07-13-2025 03:30PM EDT
136.8	Condition: Regular	07-13-2025 03:15PM EDT
117.6	Condition: Regular	07-13-2025 03:00PM EDT
69.6	Condition: Regular	07-13-2025 02:45PM EDT
72	Condition: Regular	07-13-2025 02:30PM EDT
105.6	Condition: Regular	07-13-2025 02:15PM EDT
76.8	Condition: Regular	07-13-2025 02:00PM EDT
180	Condition: Regular	07-13-2025 01:45PM EDT
127.2	Condition: Regular	07-13-2025 01:30PM EDT
112.8	Condition: Regular	07-13-2025 01:15PM EDT
160.8	Condition: Regular	07-13-2025 01:00PM EDT
132	Condition: Regular	07-13-2025 12:45PM EDT
115.2	Condition: Regular	07-13-2025 12:30PM EDT
184.8	Condition: Regular	07-13-2025 12:15PM EDT
175.2	Condition: Regular	07-13-2025 12:00PM EDT
196.8	Condition: Regular	07-13-2025 11:45AM EDT
196.8	Condition: Regular	07-13-2025 11:30AM EDT
132	Condition: Regular	07-13-2025 11:15AM EDT
103.2	Condition: Regular	07-13-2025 11:00AM EDT
127.2	Condition: Regular	07-13-2025 10:45AM EDT
88.8	Condition: Regular	07-13-2025 10:30AM EDT
69.6	Condition: Regular	07-13-2025 10:15AM EDT
62.4	Condition: Regular	07-13-2025 10:00AM EDT
81.6	Condition: Regular	07-13-2025 09:45AM EDT
45.6	Condition: Regular	07-13-2025 09:30AM EDT
55.2	Condition: Regular	07-13-2025 09:15AM EDT
79.2	Condition: Regular	07-13-2025 09:00AM EDT
55.2	Condition: Regular	07-13-2025 08:45AM EDT
74.4	Condition: Regular	07-13-2025 08:30AM EDT
36	Condition: Regular	07-13-2025 08:15AM EDT
33.6	Condition: Regular	07-13-2025 08:00AM EDT
31.2	Condition: Regular	07-13-2025 07:45AM EDT
16.8	Condition: Regular	07-13-2025 07:30AM EDT
9.6	Condition: Regular	07-13-2025 07:15AM EDT
4.8	Condition: Regular	07-13-2025 07:00AM EDT
2.4	Condition: Regular	07-13-2025 06:45AM EDT
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0	Condition: Regular	07-13-2025 06:15AM EDT
0	Condition: Regular	07-13-2025 06:00AM EDT
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0	Condition: Regular	07-13-2025 05:30AM EDT
0	Condition: Regular	07-13-2025 05:15AM EDT
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0	Condition: Regular	07-13-2025 04:15AM EDT
0	Condition: Regular	07-13-2025 04:00AM EDT
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0	Condition: Regular	07-13-2025 03:15AM EDT
0	Condition: Regular	07-13-2025 03:00AM EDT
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0	Condition: Regular	07-13-2025 02:15AM EDT

0	Condition: Regular	07-13-2025 02:00AM EDT
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0	Condition: Regular	07-13-2025 01:00AM EDT
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0	Condition: Regular	07-12-2025 10:15PM EDT
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0	Condition: Regular	07-12-2025 08:30PM EDT
0	Condition: Regular	07-12-2025 08:15PM EDT
0	Condition: Regular	07-12-2025 08:00PM EDT
0	Condition: Regular	07-12-2025 07:45PM EDT
9.6	Condition: Regular	07-12-2025 07:30PM EDT
26.4	Condition: Regular	07-12-2025 07:15PM EDT
31.2	Condition: Regular	07-12-2025 07:00PM EDT
50.4	Condition: Regular	07-12-2025 06:45PM EDT
40.8	Condition: Regular	07-12-2025 06:30PM EDT
38.4	Condition: Regular	07-12-2025 06:15PM EDT
67.2	Condition: Regular	07-12-2025 06:00PM EDT
33.6	Condition: Regular	07-12-2025 05:45PM EDT
86.4	Condition: Regular	07-12-2025 05:30PM EDT
120	Condition: Regular	07-12-2025 05:15PM EDT
38.4	Condition: Regular	07-12-2025 05:00PM EDT
96	Condition: Regular	07-12-2025 04:45PM EDT
146.4	Condition: Regular	07-12-2025 04:30PM EDT
168	Condition: Regular	07-12-2025 04:15PM EDT
96	Condition: Regular	07-12-2025 04:00PM EDT
136.8	Condition: Regular	07-12-2025 03:45PM EDT
182.4	Condition: Regular	07-12-2025 03:30PM EDT
67.2	Condition: Regular	07-12-2025 03:15PM EDT
201.6	Condition: Regular	07-12-2025 03:00PM EDT
204	Condition: Regular	07-12-2025 02:45PM EDT
180	Condition: Regular	07-12-2025 02:30PM EDT
204	Condition: Regular	07-12-2025 02:15PM EDT
206.4	Condition: Regular	07-12-2025 02:00PM EDT
211.2	Condition: Regular	07-12-2025 01:45PM EDT
199.2	Condition: Regular	07-12-2025 01:30PM EDT
196.8	Condition: Regular	07-12-2025 01:15PM EDT
208.8	Condition: Regular	07-12-2025 01:00PM EDT
211.2	Condition: Regular	07-12-2025 12:45PM EDT
187.2	Condition: Regular	07-12-2025 12:30PM EDT
201.6	Condition: Regular	07-12-2025 12:15PM EDT
204	Condition: Regular	07-12-2025 12:00PM EDT
120	Condition: Regular	07-12-2025 11:45AM EDT
170.4	Condition: Regular	07-12-2025 11:30AM EDT
160.8	Condition: Regular	07-12-2025 11:15AM EDT
141.6	Condition: Regular	07-12-2025 11:00AM EDT
192	Condition: Regular	07-12-2025 10:45AM EDT
165.6	Condition: Regular	07-12-2025 10:30AM EDT
105.6	Condition: Regular	07-12-2025 10:15AM EDT
88.8	Condition: Regular	07-12-2025 10:00AM EDT
96	Condition: Regular	07-12-2025 09:45AM EDT
69.6	Condition: Regular	07-12-2025 09:30AM EDT
110.4	Condition: Regular	07-12-2025 09:15AM EDT
98.4	Condition: Regular	07-12-2025 09:00AM EDT
81.6	Condition: Regular	07-12-2025 08:45AM EDT
36	Condition: Regular	07-12-2025 08:30AM EDT

36	Condition: Regular	07-12-2025 08:15AM EDT
26.4	Condition: Regular	07-12-2025 08:00AM EDT
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2.4	Condition: Regular	07-11-2025 07:30PM EDT
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55.2	Condition: Regular	07-11-2025 05:15PM EDT
84	Condition: Regular	07-11-2025 05:00PM EDT
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160.8	Condition: Regular	07-11-2025 04:30PM EDT
132	Condition: Regular	07-11-2025 04:15PM EDT
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172.8	Condition: Regular	07-11-2025 03:45PM EDT
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182.4	Condition: Regular	07-11-2025 03:15PM EDT
182.4	Condition: Regular	07-11-2025 03:00PM EDT
182.4	Condition: Regular	07-11-2025 02:45PM EDT

168	Condition: Regular	07-11-2025 02:30PM EDT
184.8	Condition: Regular	07-11-2025 02:15PM EDT
184.8	Condition: Regular	07-11-2025 02:00PM EDT
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129.6	Condition: Regular	07-10-2025 03:45PM EDT
98.4	Condition: Regular	07-10-2025 03:30PM EDT
88.8	Condition: Regular	07-10-2025 03:15PM EDT
88.8	Condition: Regular	07-10-2025 03:00PM EDT
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81.6	Condition: Regular	07-10-2025 02:30PM EDT
74.4	Condition: Regular	07-10-2025 02:15PM EDT
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110.4	Condition: Regular	07-10-2025 12:30PM EDT
139.2	Condition: Regular	07-10-2025 12:15PM EDT
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148.8	Condition: Regular	07-09-2025 04:00PM EDT
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122.4	Condition: Regular	07-09-2025 10:00AM EDT
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148.8	Condition: Regular	07-06-2025 10:45AM EDT
146.4	Condition: Regular	07-06-2025 10:30AM EDT

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148.8	Condition: Regular	07-05-2025 04:30PM EDT
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177.6	Condition: Regular	07-05-2025 03:30PM EDT
182.4	Condition: Regular	07-05-2025 03:15PM EDT
187.2	Condition: Regular	07-05-2025 03:00PM EDT
187.2	Condition: Regular	07-05-2025 02:45PM EDT
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172.8	Condition: Regular	07-05-2025 02:00PM EDT
168	Condition: Regular	07-05-2025 01:45PM EDT
180	Condition: Regular	07-05-2025 01:30PM EDT
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177.6	Condition: Regular	07-05-2025 12:00PM EDT
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67.2	Condition: Regular	07-03-2025 06:30PM EDT
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88.8	Condition: Regular	07-03-2025 06:00PM EDT
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124.8	Condition: Regular	07-03-2025 05:30PM EDT
124.8	Condition: Regular	07-03-2025 05:15PM EDT
127.2	Condition: Regular	07-03-2025 05:00PM EDT
127.2	Condition: Regular	07-03-2025 04:45PM EDT
141.6	Condition: Regular	07-03-2025 04:30PM EDT
132	Condition: Regular	07-03-2025 04:15PM EDT
146.4	Condition: Regular	07-03-2025 04:00PM EDT
153.6	Condition: Regular	07-03-2025 03:45PM EDT
160.8	Condition: Regular	07-03-2025 03:30PM EDT
163.2	Condition: Regular	07-03-2025 03:15PM EDT
170.4	Condition: Regular	07-03-2025 03:00PM EDT
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172.8	Condition: Regular	07-03-2025 02:30PM EDT
172.8	Condition: Regular	07-03-2025 02:15PM EDT
172.8	Condition: Regular	07-03-2025 02:00PM EDT
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172.8	Condition: Regular	07-03-2025 01:30PM EDT
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184.8	Condition: Regular	07-03-2025 12:30PM EDT
184.8	Condition: Regular	07-03-2025 12:15PM EDT
177.6	Condition: Regular	07-03-2025 12:00PM EDT
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168	Condition: Regular	07-03-2025 11:30AM EDT

163.2	Condition: Regular	07-03-2025 11:15AM EDT
156	Condition: Regular	07-03-2025 11:00AM EDT
148.8	Condition: Regular	07-03-2025 10:45AM EDT
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124.8	Condition: Regular	07-03-2025 10:00AM EDT
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76.8	Condition: Regular	07-02-2025 06:30PM EDT
91.2	Condition: Regular	07-02-2025 06:15PM EDT
93.6	Condition: Regular	07-02-2025 06:00PM EDT
67.2	Condition: Regular	07-02-2025 05:45PM EDT

127.2	Condition: Regular	07-02-2025 05:30PM EDT
139.2	Condition: Regular	07-02-2025 05:15PM EDT
141.6	Condition: Regular	07-02-2025 05:00PM EDT
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160.8	Condition: Regular	07-02-2025 04:30PM EDT
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192	Condition: Regular	07-02-2025 03:15PM EDT
160.8	Condition: Regular	07-02-2025 03:00PM EDT
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160.8	Condition: Regular	07-02-2025 02:00PM EDT
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158.4	Condition: Regular	07-02-2025 01:30PM EDT
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110.4	Condition: Regular	07-02-2025 01:00PM EDT
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98.4	Condition: Regular	07-02-2025 12:00PM EDT
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67.2	Condition: Regular	07-02-2025 10:00AM EDT
57.6	Condition: Regular	07-02-2025 09:45AM EDT
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4.8	Condition: Regular	07-02-2025 09:00AM EDT
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57.6	Condition: Regular	07-01-2025 02:30PM EDT
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175.2	Condition: Regular	07-01-2025 02:00PM EDT
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156	Condition: Regular	07-01-2025 01:00PM EDT
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74.4	Condition: Regular	07-01-2025 12:30PM EDT
112.8	Condition: Regular	07-01-2025 12:15PM EDT
117.6	Condition: Regular	07-01-2025 12:00PM EDT
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127.2	Condition: Regular	07-01-2025 10:00AM EDT
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91.2	Condition: Regular	07-01-2025 09:30AM EDT
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62.4	Condition: Regular	07-01-2025 08:00AM EDT
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117.6	Condition: Regular	06-30-2025 10:00AM EDT
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86.4	Condition: Regular	06-30-2025 09:15AM EDT
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0	Condition: Regular	06-21-2025 08:00PM EDT
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72	Condition: Regular	06-21-2025 06:00PM EDT
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132	Condition: Regular	06-21-2025 04:15PM EDT
120	Condition: Regular	06-21-2025 04:00PM EDT
124.8	Condition: Regular	06-21-2025 03:45PM EDT
160.8	Condition: Regular	06-21-2025 03:30PM EDT

168	Condition: Regular	06-21-2025 03:15PM EDT
192	Condition: Regular	06-21-2025 03:00PM EDT
192	Condition: Regular	06-21-2025 02:45PM EDT
177.6	Condition: Regular	06-21-2025 02:30PM EDT
132	Condition: Regular	06-21-2025 02:15PM EDT
204	Condition: Regular	06-21-2025 02:00PM EDT
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189.6	Condition: Regular	06-21-2025 01:30PM EDT
192	Condition: Regular	06-21-2025 01:15PM EDT
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206.4	Condition: Regular	06-21-2025 12:45PM EDT
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62.4	Condition: Regular	06-20-2025 06:00PM EDT
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184.8	Condition: Regular	06-19-2025 01:30PM EDT
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0	Condition: Regular	06-17-2025 07:30PM EDT
0	Condition: Regular	06-17-2025 07:15PM EDT
2.4	Condition: Regular	06-17-2025 07:00PM EDT
14.4	Condition: Regular	06-17-2025 06:45PM EDT
16.8	Condition: Regular	06-17-2025 06:30PM EDT
14.4	Condition: Regular	06-17-2025 06:15PM EDT
14.4	Condition: Regular	06-17-2025 06:00PM EDT
14.4	Condition: Regular	06-17-2025 05:45PM EDT
19.2	Condition: Regular	06-17-2025 05:30PM EDT
19.2	Condition: Regular	06-17-2025 05:15PM EDT
19.2	Condition: Regular	06-17-2025 05:00PM EDT
16.8	Condition: Regular	06-17-2025 04:45PM EDT
16.8	Condition: Regular	06-17-2025 04:30PM EDT
31.2	Condition: Regular	06-17-2025 04:15PM EDT
24	Condition: Regular	06-17-2025 04:00PM EDT
74.4	Condition: Regular	06-17-2025 03:45PM EDT
146.4	Condition: Regular	06-17-2025 03:30PM EDT
168	Condition: Regular	06-17-2025 03:15PM EDT
88.8	Condition: Regular	06-17-2025 03:00PM EDT
76.8	Condition: Regular	06-17-2025 02:45PM EDT
100.8	Condition: Regular	06-17-2025 02:30PM EDT
103.2	Condition: Regular	06-17-2025 02:15PM EDT
98.4	Condition: Regular	06-17-2025 02:00PM EDT
103.2	Condition: Regular	06-17-2025 01:45PM EDT
110.4	Condition: Regular	06-17-2025 01:30PM EDT
55.2	Condition: Regular	06-17-2025 01:15PM EDT
50.4	Condition: Regular	06-17-2025 01:00PM EDT
36	Condition: Regular	06-17-2025 12:45PM EDT
36	Condition: Regular	06-17-2025 12:30PM EDT
115.2	Condition: Regular	06-17-2025 12:15PM EDT
117.6	Condition: Regular	06-17-2025 12:00PM EDT
129.6	Condition: Regular	06-17-2025 11:45AM EDT
96	Condition: Regular	06-17-2025 11:30AM EDT
74.4	Condition: Regular	06-17-2025 11:15AM EDT
72	Condition: Regular	06-17-2025 11:00AM EDT
31.2	Condition: Regular	06-17-2025 10:45AM EDT
48	Condition: Regular	06-17-2025 10:30AM EDT
52.8	Condition: Regular	06-17-2025 10:15AM EDT
50.4	Condition: Regular	06-17-2025 10:00AM EDT
52.8	Condition: Regular	06-17-2025 09:45AM EDT
28.8	Condition: Regular	06-17-2025 09:30AM EDT
16.8	Condition: Regular	06-17-2025 09:15AM EDT
2.4	Condition: Regular	06-17-2025 09:00AM EDT
2.4	Condition: Regular	06-17-2025 08:45AM EDT
2.4	Condition: Regular	06-17-2025 08:30AM EDT
2.4	Condition: Regular	06-17-2025 08:15AM EDT
0	Condition: Regular	06-17-2025 08:00AM EDT
2.4	Condition: Regular	06-17-2025 07:45AM EDT
0	Condition: Regular	06-17-2025 07:30AM EDT
0	Condition: Regular	06-17-2025 07:15AM EDT
0	Condition: Regular	06-17-2025 07:00AM EDT
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0	Condition: Regular	06-17-2025 05:15AM EDT
0	Condition: Regular	06-17-2025 05:00AM EDT

0	Condition: Regular	06-17-2025 04:45AM EDT
0	Condition: Regular	06-17-2025 04:30AM EDT
0	Condition: Regular	06-17-2025 04:15AM EDT
0	Condition: Regular	06-17-2025 04:00AM EDT
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0	Condition: Regular	06-16-2025 10:45PM EDT
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0	Condition: Regular	06-16-2025 08:15PM EDT
0	Condition: Regular	06-16-2025 08:00PM EDT
0	Condition: Regular	06-16-2025 07:45PM EDT
0	Condition: Regular	06-16-2025 07:30PM EDT
0	Condition: Regular	06-16-2025 07:15PM EDT
2.4	Condition: Regular	06-16-2025 07:00PM EDT
0	Condition: Regular	06-16-2025 06:45PM EDT
2.4	Condition: Regular	06-16-2025 06:30PM EDT
2.4	Condition: Regular	06-16-2025 06:15PM EDT
4.8	Condition: Regular	06-16-2025 06:00PM EDT
9.6	Condition: Regular	06-16-2025 05:45PM EDT
4.8	Condition: Regular	06-16-2025 05:30PM EDT
2.4	Condition: Regular	06-16-2025 05:15PM EDT
4.8	Condition: Regular	06-16-2025 05:00PM EDT
4.8	Condition: Regular	06-16-2025 04:45PM EDT
2.4	Condition: Regular	06-16-2025 04:30PM EDT
9.6	Condition: Regular	06-16-2025 04:15PM EDT
9.6	Condition: Regular	06-16-2025 04:00PM EDT
9.6	Condition: Regular	06-16-2025 03:45PM EDT
12	Condition: Regular	06-16-2025 03:30PM EDT
2.4	Condition: Regular	06-16-2025 03:15PM EDT
7.2	Condition: Regular	06-16-2025 03:00PM EDT
19.2	Condition: Regular	06-16-2025 02:45PM EDT
24	Condition: Regular	06-16-2025 02:30PM EDT
26.4	Condition: Regular	06-16-2025 02:15PM EDT
33.6	Condition: Regular	06-16-2025 02:00PM EDT
38.4	Condition: Regular	06-16-2025 01:45PM EDT
28.8	Condition: Regular	06-16-2025 01:30PM EDT
26.4	Condition: Regular	06-16-2025 01:15PM EDT
24	Condition: Regular	06-16-2025 01:00PM EDT
26.4	Condition: Regular	06-16-2025 12:45PM EDT
21.6	Condition: Regular	06-16-2025 12:30PM EDT
14.4	Condition: Regular	06-16-2025 12:15PM EDT
12	Condition: Regular	06-16-2025 12:00PM EDT
7.2	Condition: Regular	06-16-2025 11:45AM EDT
12	Condition: Regular	06-16-2025 11:30AM EDT
9.6	Condition: Regular	06-16-2025 11:15AM EDT

12	Condition: Regular	06-16-2025 11:00AM EDT
2.4	Condition: Regular	06-16-2025 10:45AM EDT
2.4	Condition: Regular	06-16-2025 10:30AM EDT
2.4	Condition: Regular	06-16-2025 10:15AM EDT
2.4	Condition: Regular	06-16-2025 10:00AM EDT
0	Condition: Regular	06-16-2025 09:45AM EDT
4.8	Condition: Regular	06-16-2025 09:30AM EDT
4.8	Condition: Regular	06-16-2025 09:15AM EDT
2.4	Condition: Regular	06-16-2025 09:00AM EDT
0	Condition: Regular	06-16-2025 08:45AM EDT
0	Condition: Regular	06-16-2025 08:30AM EDT
0	Condition: Regular	06-16-2025 08:15AM EDT
0	Condition: Regular	06-16-2025 08:00AM EDT
0	Condition: Regular	06-16-2025 07:45AM EDT
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0	Condition: Regular	06-16-2025 07:15AM EDT
0	Condition: Regular	06-16-2025 07:00AM EDT
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0	Condition: Regular	06-16-2025 06:15AM EDT
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0	Condition: Regular	06-16-2025 05:15AM EDT
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0	Condition: Regular	06-16-2025 04:15AM EDT
0	Condition: Regular	06-16-2025 04:00AM EDT
0	Condition: Regular	06-16-2025 03:45AM EDT
0	Condition: Regular	06-16-2025 03:30AM EDT
0	Condition: Regular	06-16-2025 03:15AM EDT
0	Condition: Regular	06-16-2025 03:00AM EDT
0	Condition: Regular	06-16-2025 02:45AM EDT
0	Condition: Regular	06-16-2025 02:30AM EDT
0	Condition: Regular	06-16-2025 02:15AM EDT
0	Condition: Regular	06-16-2025 02:00AM EDT
0	Condition: Regular	06-16-2025 01:45AM EDT
0	Condition: Regular	06-16-2025 01:30AM EDT
0	Condition: Regular	06-16-2025 01:15AM EDT
0	Condition: Regular	06-16-2025 01:00AM EDT
0	Condition: Regular	06-16-2025 12:45AM EDT
0	Condition: Regular	06-16-2025 12:30AM EDT
0	Condition: Regular	06-16-2025 12:15AM EDT
126,720		

Filters: Measuring Component ID 718732364927, Start Date/Time 2025-06-14-23.00.00, End Date/Time 2025-07-15-23.00.00, Days Prior to Latest Date/Time 45

Measurement kWh - Delivered	Additional Details	Measurement Date/Time
4.8	Condition: Regular	07-16-2025 12:00AM EDT
4.8	Condition: Regular	07-15-2025 11:45PM EDT
4.8	Condition: Regular	07-15-2025 11:30PM EDT
4.8	Condition: Regular	07-15-2025 11:15PM EDT
4.8	Condition: Regular	07-15-2025 11:00PM EDT
4.8	Condition: Regular	07-15-2025 10:45PM EDT
4.8	Condition: Regular	07-15-2025 10:30PM EDT
4.8	Condition: Regular	07-15-2025 10:15PM EDT
4.8	Condition: Regular	07-15-2025 10:00PM EDT
4.8	Condition: Regular	07-15-2025 09:45PM EDT
4.8	Condition: Regular	07-15-2025 09:30PM EDT
4.8	Condition: Regular	07-15-2025 09:15PM EDT
4.8	Condition: Regular	07-15-2025 09:00PM EDT
4.8	Condition: Regular	07-15-2025 08:45PM EDT
4.8	Condition: Regular	07-15-2025 08:30PM EDT
3.84	Condition: Regular	07-15-2025 08:15PM EDT
3.84	Condition: Regular	07-15-2025 08:00PM EDT
0.96	Condition: Regular	07-15-2025 07:45PM EDT
0.96	Condition: Regular	07-15-2025 07:30PM EDT
0	Condition: Regular	07-15-2025 07:15PM EDT
0	Condition: Regular	07-15-2025 07:00PM EDT
0	Condition: Regular	07-15-2025 06:45PM EDT
0	Condition: Regular	07-15-2025 06:30PM EDT
0	Condition: Regular	07-15-2025 06:15PM EDT
0	Condition: Regular	07-15-2025 06:00PM EDT
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0	Condition: Regular	07-15-2025 05:15PM EDT
0	Condition: Regular	07-15-2025 05:00PM EDT
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0	Condition: Regular	07-15-2025 04:30PM EDT
0	Condition: Regular	07-15-2025 04:15PM EDT
0	Condition: Regular	07-15-2025 04:00PM EDT
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0	Condition: Regular	07-15-2025 03:15PM EDT
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0	Condition: Regular	07-15-2025 02:15PM EDT
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0	Condition: Regular	07-15-2025 12:15PM EDT
0	Condition: Regular	07-15-2025 12:00PM EDT
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0	Condition: Regular	07-15-2025 08:30AM EDT
0	Condition: Regular	07-15-2025 08:15AM EDT
0	Condition: Regular	07-15-2025 08:00AM EDT
0	Condition: Regular	07-15-2025 07:45AM EDT
0	Condition: Regular	07-15-2025 07:30AM EDT
0.96	Condition: Regular	07-15-2025 07:15AM EDT
2.88	Condition: Regular	07-15-2025 07:00AM EDT
3.84	Condition: Regular	07-15-2025 06:45AM EDT
3.84	Condition: Regular	07-15-2025 06:30AM EDT
3.84	Condition: Regular	07-15-2025 06:15AM EDT
4.8	Condition: Regular	07-15-2025 06:00AM EDT
4.8	Condition: Regular	07-15-2025 05:45AM EDT
4.8	Condition: Regular	07-15-2025 05:30AM EDT
4.8	Condition: Regular	07-15-2025 05:15AM EDT
4.8	Condition: Regular	07-15-2025 05:00AM EDT
4.8	Condition: Regular	07-15-2025 04:45AM EDT
4.8	Condition: Regular	07-15-2025 04:30AM EDT
4.8	Condition: Regular	07-15-2025 04:15AM EDT
4.8	Condition: Regular	07-15-2025 04:00AM EDT
4.8	Condition: Regular	07-15-2025 03:45AM EDT
4.8	Condition: Regular	07-15-2025 03:30AM EDT
4.8	Condition: Regular	07-15-2025 03:15AM EDT
4.8	Condition: Regular	07-15-2025 03:00AM EDT
4.8	Condition: Regular	07-15-2025 02:45AM EDT
4.8	Condition: Regular	07-15-2025 02:30AM EDT

4.8	Condition: Regular	07-15-2025 02:15AM EDT
4.8	Condition: Regular	07-15-2025 02:00AM EDT
4.8	Condition: Regular	07-15-2025 01:45AM EDT
4.8	Condition: Regular	07-15-2025 01:30AM EDT
4.8	Condition: Regular	07-15-2025 01:15AM EDT
4.8	Condition: Regular	07-15-2025 01:00AM EDT
4.8	Condition: Regular	07-15-2025 12:45AM EDT
4.8	Condition: Regular	07-15-2025 12:30AM EDT
4.8	Condition: Regular	07-15-2025 12:15AM EDT
4.8	Condition: Regular	07-15-2025 12:00AM EDT
4.8	Condition: Regular	07-14-2025 11:45PM EDT
4.8	Condition: Regular	07-14-2025 11:30PM EDT
4.8	Condition: Regular	07-14-2025 11:15PM EDT
4.8	Condition: Regular	07-14-2025 11:00PM EDT
4.8	Condition: Regular	07-14-2025 10:45PM EDT
4.8	Condition: Regular	07-14-2025 10:30PM EDT
4.8	Condition: Regular	07-14-2025 10:15PM EDT
4.8	Condition: Regular	07-14-2025 10:00PM EDT
4.8	Condition: Regular	07-14-2025 09:45PM EDT
5.76	Condition: Regular	07-14-2025 09:30PM EDT
4.8	Condition: Regular	07-14-2025 09:15PM EDT
4.8	Condition: Regular	07-14-2025 09:00PM EDT
4.8	Condition: Regular	07-14-2025 08:45PM EDT
4.8	Condition: Regular	07-14-2025 08:30PM EDT
4.8	Condition: Regular	07-14-2025 08:15PM EDT
4.8	Condition: Regular	07-14-2025 08:00PM EDT
4.8	Condition: Regular	07-14-2025 07:45PM EDT
4.8	Condition: Regular	07-14-2025 07:30PM EDT
4.8	Condition: Regular	07-14-2025 07:15PM EDT
3.84	Condition: Regular	07-14-2025 07:00PM EDT
2.88	Condition: Regular	07-14-2025 06:45PM EDT
2.88	Condition: Regular	07-14-2025 06:30PM EDT
1.92	Condition: Regular	07-14-2025 06:15PM EDT
1.92	Condition: Regular	07-14-2025 06:00PM EDT
0.96	Condition: Regular	07-14-2025 05:45PM EDT
0.96	Condition: Regular	07-14-2025 05:30PM EDT
1.92	Condition: Regular	07-14-2025 05:15PM EDT
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0	Condition: Regular	07-14-2025 07:15AM EDT
0	Condition: Regular	07-14-2025 07:00AM EDT
2.88	Condition: Regular	07-14-2025 06:45AM EDT
1.92	Condition: Regular	07-14-2025 06:30AM EDT
3.84	Condition: Regular	07-14-2025 06:15AM EDT
3.84	Condition: Regular	07-14-2025 06:00AM EDT
4.8	Condition: Regular	07-14-2025 05:45AM EDT
4.8	Condition: Regular	07-14-2025 05:30AM EDT
4.8	Condition: Regular	07-14-2025 05:15AM EDT
4.8	Condition: Regular	07-14-2025 05:00AM EDT
4.8	Condition: Regular	07-14-2025 04:45AM EDT
4.8	Condition: Regular	07-14-2025 04:30AM EDT
4.8	Condition: Regular	07-14-2025 04:15AM EDT
4.8	Condition: Regular	07-14-2025 04:00AM EDT
4.8	Condition: Regular	07-14-2025 03:45AM EDT

4.8	Condition: Regular	07-14-2025 03:30AM EDT
4.8	Condition: Regular	07-14-2025 03:15AM EDT
4.8	Condition: Regular	07-14-2025 03:00AM EDT
4.8	Condition: Regular	07-14-2025 02:45AM EDT
4.8	Condition: Regular	07-14-2025 02:30AM EDT
4.8	Condition: Regular	07-14-2025 02:15AM EDT
4.8	Condition: Regular	07-14-2025 02:00AM EDT
4.8	Condition: Regular	07-14-2025 01:45AM EDT
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4.8	Condition: Regular	07-14-2025 12:45AM EDT
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4.8	Condition: Regular	07-14-2025 12:15AM EDT
4.8	Condition: Regular	07-14-2025 12:00AM EDT
4.8	Condition: Regular	07-13-2025 11:45PM EDT
4.8	Condition: Regular	07-13-2025 11:30PM EDT
4.8	Condition: Regular	07-13-2025 11:15PM EDT
4.8	Condition: Regular	07-13-2025 11:00PM EDT
4.8	Condition: Regular	07-13-2025 10:45PM EDT
4.8	Condition: Regular	07-13-2025 10:30PM EDT
4.8	Condition: Regular	07-13-2025 10:15PM EDT
4.8	Condition: Regular	07-13-2025 10:00PM EDT
4.8	Condition: Regular	07-13-2025 09:45PM EDT
4.8	Condition: Regular	07-13-2025 09:30PM EDT
4.8	Condition: Regular	07-13-2025 09:15PM EDT
4.8	Condition: Regular	07-13-2025 09:00PM EDT
4.8	Condition: Regular	07-13-2025 08:45PM EDT
4.8	Condition: Regular	07-13-2025 08:30PM EDT
3.84	Condition: Regular	07-13-2025 08:15PM EDT
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3.84	Condition: Regular	07-13-2025 07:45PM EDT
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2.88	Condition: Regular	07-01-2025 06:00PM EDT
2.88	Condition: Regular	07-01-2025 05:45PM EDT
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2.88	Condition: Regular	07-01-2025 05:15PM EDT
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6.72	Condition: Regular	07-01-2025 03:30PM EDT
6.72	Condition: Regular	07-01-2025 03:15PM EDT
3.84	Condition: Regular	07-01-2025 03:00PM EDT
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7,049		

Filters: Measuring Component ID 685117665280, Start Date/Time 2025-06-14-23.00.00, End Date/Time 2025-07-15-23.00.00, Days Prior to Latest Date/Time 45

Measurement	Additional Details	Measurement Date/Time
kWh - Delivered		
9.6	Condition: Regular	07-16-2025 12:00AM EDT
9.6	Condition: Regular	07-15-2025 11:45PM EDT
9.6	Condition: Regular	07-15-2025 11:30PM EDT
9.6	Condition: Regular	07-15-2025 11:15PM EDT
9.6	Condition: Regular	07-15-2025 11:00PM EDT
9.6	Condition: Regular	07-15-2025 10:45PM EDT
9.6	Condition: Regular	07-15-2025 10:30PM EDT
9.6	Condition: Regular	07-15-2025 10:15PM EDT
12	Condition: Regular	07-15-2025 10:00PM EDT
9.6	Condition: Regular	07-15-2025 09:45PM EDT
12	Condition: Regular	07-15-2025 09:30PM EDT
12	Condition: Regular	07-15-2025 09:15PM EDT
12	Condition: Regular	07-15-2025 09:00PM EDT
12	Condition: Regular	07-15-2025 08:45PM EDT
12	Condition: Regular	07-15-2025 08:30PM EDT
9.6	Condition: Regular	07-15-2025 08:15PM EDT
7.2	Condition: Regular	07-15-2025 08:00PM EDT
2.4	Condition: Regular	07-15-2025 07:45PM EDT
0	Condition: Regular	07-15-2025 07:30PM EDT
0	Condition: Regular	07-15-2025 07:15PM EDT
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4.8	Condition: Regular	06-17-2025 01:00AM EDT
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11,681		

July 2025 bill dates - 06/16/25-07/16/25		kWhs
MDM-H020203036-IN		7,049
MDM-H020203034-IN		11,681
MDM-H020227585-OUT		(47,112)
MDM-H019474971-OUT		(126,720)
Generation Supply kWhs		18,730
Renewable Energy Credit for Supply (Generation)	$ (15,479.47)	$ 0.0890
Billed Distribution kWhs		-
Monthly Banked Distribution kWhs		(155,102)

Bill Segment

Main | Read Details | Items | SQ Details | Calc Lines | Financial Details | Bill Segment Messages | Sub Bill Segs

BILL SEG INFO: PECO / Elec - Commercial and Industrial, Frozen, Period: 06-16-2025 - 07-16-2025,1-13,204.08, 9693016266

BILL SEG HDR: 2 of 2

SEQUENCE: 2 START DATE: 06-17-2025 END DATE: 07-16-2025 AMOUNT:

DESC ON BILL: Electric High Tension Service 100kW-500kW RATE VERSION: PECO Electric Commercial High Tension Svc Demand

CALC LINE CHAR	SEQUENCE	DESCRIPTION ON BILL	CALCULATED AMOUNT
	1	Customer Charge (Base)	$371.66
	2	Night Service Meter Charge	$11.45
	4	Customer Charge	$383.13
	5	Distribution Charges [104 kW] [$7.11]	$740.48
	6	Incremental COVID-19 Related Uncollectible Expense	$-5.20
	7	Fiber Affiliate Revenue Surcharge	$-7.28
	8	Electric Recoupment Surcharge	$0.00
	9	Distribution Charges	$752.96
	10	Distribution Charges (Book to GL Post Exemption)	$0.00
	11	Distribution Charges [0.00 kWh] [$-0.0006]	$0.00
	14	Distribution System Improvement Charge (Book to GL Post Exemption)	$0.00
	15	Distribution System Improvement Charge	$0.00
	16	Energy Eff & Nonbypassable Trans [0.00 kW] [$2.51]	$0.00
	17	Energy Efficiency Charge-kW	$0.00
	18	Non-Bypassable Transmission	$0.00
	19	High Voltage Discount (Book to GL Post Exemption)	$-24.96
	20	High Voltage Discount [104 kW] [$-0.24]	$-24.96
	21	PECO Electric Delivery	$1,098.65
	22	Administrative Charge (Book to GL Post Exemption)	$0.56
	23	Administrative Charge [18,730 kWh] [$0.00003]	$0.56
	24	Generation Charges	$727.84
	25	Line Loss for Energy Supply	$18.20
	26	GRT for Energy Supply	$46.78
	27	Generation Charges [18,730 kWh]	$792.82
	28	Peak Load Contribution (Book to GL Post Exemption)	$0.00
	29	Peak Load Contribution [0.00 kW] [$10.34731]	$0.00
	30	Ancillary Charge (Book to GL Post Exemption)	$142.72
	31	Ancillary Charge [18,730 kWh] [$0.00762]	$142.72
	32	Purchased Generation Adj. (Book to GL Post Exemption)	$40.27
	33	Purchased Generation Adj. [18,730 kWh] [$0.00215]	$40.27
	34	Working Capital Charge (Book to GL Post Exemption)	$8.56
	35	Working Capital Charge [18,730 kWh] [$0.00033]	$8.36
	36	Transmission Charges (Book to GL Post Exemption)	$173.76
	37	Transmission Charges [104 kW] [$1.69]	$175.76
	38	Generation Charges Hourly Generation Credit (FCPO)	$-10,026.56
	39	Line Loss Hourly Generation Credit (FCPO)	$-250.66
	40	GRT Hourly Generation Credit (FCPO)	$-644.38
	41	Working Capital Charges Generation Credit (FCPO)	$-60.84
	42	Administrative Charges Generation Credit (FCPO)	$-5.21
	43	Ancillary Charges Generation Credit (FCPO)	$-1,324.60
	44	Purchased Generation Adj Generation Credit (FCPO)	$-373.74
	45	Transmission Charges Generation Credit (FCPO)	$-597.98
	46	Peak Load Contribution Generation Credit (FCPO)	$-2,195.39
	47	Renewable Energy Credit	$-15,479.47
	48	Electric Supply	$-14,320.78
	50	State Tax Adjustment	$0.00
	52	Federal Tax Adjustment	$0.00
	54	Total Current Charge Dollar Amount (FCPO)	$1,257.00
	55	Total Current Charge Cent Amount (FCPO)	$0.34

$ 1,098.65 Distribution charges

$ (15,479.47) Renewable Energy Credit
$ 1,158.69 Generation Supply Charges
$ (14,320.78) Net Generation Supply charge

peco
AN EXELON COMPANY

Name: GREENFIELD MFG CO INC
Account Number: [redacted]
Phone Number: 215-535-4141
Service Address: 9800 Bustleton Ave RS - IN\OUT, Philadelphia

Emergency and Repair
800-841-4141
This is the number to call to report power outages, gas leaks or odors, and safety hazards related to PECO Equipment.

Billing Summary

Bill Date	07/16/2025
Charges/Credits from previous bill	-$7,225.88
Refund to Customer	$7,225.88
Current Period Charges	
Electric	-$13,204.08
Total New Charges	**($13,204.08)**
No Payment is Due	**$0.00**

Your remaining excess credit is $13,204.08

Message Center
From PECO:
5.90% estimated Gross Receipt Tax of $-780.11 included in new charges.

Your estimated electric price to compare adder is $0 per kWh, which includes ancillary charges and the purchased generation adjustment but excludes energy and capacity. This may change in March, June, September and December. For more information and supplier offers visit PAPowerSwitch.com.

Your Previous Banked Distribution kWh is159620. Your Current Change in Banked Distribution kWh is 155101. Your current Adjustment to Banked Distribution kWh due to settlement is 0. Your Remaining Banked Distribution kWh is 314722.

General Information
Next scheduled meter reading: 08/18/2025

800-494-4000
If you have any questions or concerns, please call 800-494-4000 before the due date. Si tiene alguna pregunta, favor de llamar al numero 800-494-4000 antes de la Fecha de vencimiento.

peco.com/service
CustomerSelf Service - Manage Your Account 24/7
Start, stop and move your service

Online: peco.com | In Person: 1301 Market St., Philadelphia, PA 19103 | By Phone: 215-841-6727

Return only this portion with your check made payable to PECO. Please write your account number on your check.

peco
AN EXELON COMPANY
1301 Market Street
Philadelphia, PA 19103-1380

☐ Enroll in Automatic Payment. Complete form on reverse side.
☐ Pledge a donation to MEAF. Complete form on reverse side.

Account # [redacted]
877-432-9384
Pay by phone, a convenience fee will apply.

Pay Today!
peco.com/ebill
Go paperless: receive and pay your bill online.

No Payment is Due	**$0.00**
Payment Amount	$

	56	Sales Tax - Dollar Amount (FCPO)	$135.42		
	57	Sales Tax - Cent Amount (FCPO)	$0.02		
	59	Sales Tax w/ Exemption (FCPO)	$13.54	$ 13.54	
	60	City Tax (FCPO)	$4.51	$ 4.51	
	61	Sales Tax	$18.05		
	62	Taxes & Fees	$18.05		
	63	Total Current Charges	$-11,204.08	$ (13,204.08)	
	64	Estimated Total State Taxes (FCPO)	$-901.84	$ (13,204.08)	$ -
	65	State Gross Receipts Tax (FCPO)	$-740.11		
	66	Price To Compare Value (FCPO)	$0.00		

Filters: Measuring Component ID 000963685627, Start Date/Time 2025-06-14-23.00.00, End Date/Time 2025-07-15-23.00.00, Days Prior to Latest Date/Time 45

Measurement kWh - Received	Additional Details	Measurement Date/Time
0	Condition: Regular	07-16-2025 12:00AM EDT
0	Condition: Regular	07-15-2025 11:45PM EDT
0	Condition: Regular	07-15-2025 11:30PM EDT
0	Condition: Regular	07-15-2025 11:15PM EDT
0	Condition: Regular	07-15-2025 11:00PM EDT
0	Condition: Regular	07-15-2025 10:45PM EDT
0	Condition: Regular	07-15-2025 10:30PM EDT
0	Condition: Regular	07-15-2025 10:15PM EDT
0	Condition: Regular	07-15-2025 10:00PM EDT
0	Condition: Regular	07-15-2025 09:45PM EDT
0	Condition: Regular	07-15-2025 09:30PM EDT
0	Condition: Regular	07-15-2025 09:15PM EDT
0	Condition: Regular	07-15-2025 09:00PM EDT
0	Condition: Regular	07-15-2025 08:45PM EDT
0	Condition: Regular	07-15-2025 08:30PM EDT
0	Condition: Regular	07-15-2025 08:15PM EDT
0	Condition: Regular	07-15-2025 08:00PM EDT
2.4	Condition: Regular	07-15-2025 07:45PM EDT
2.4	Condition: Regular	07-15-2025 07:30PM EDT
18.72	Condition: Regular	07-15-2025 07:15PM EDT
55.68	Condition: Regular	07-15-2025 07:00PM EDT
81.6	Condition: Regular	07-15-2025 06:45PM EDT
106.56	Condition: Regular	07-15-2025 06:30PM EDT
126.72	Condition: Regular	07-15-2025 06:15PM EDT
149.28	Condition: Regular	07-15-2025 06:00PM EDT
164.64	Condition: Regular	07-15-2025 05:45PM EDT
182.4	Condition: Regular	07-15-2025 05:30PM EDT
201.6	Condition: Regular	07-15-2025 05:15PM EDT
199.2	Condition: Regular	07-15-2025 05:00PM EDT
154.56	Condition: Regular	07-15-2025 04:45PM EDT
120.48	Condition: Regular	07-15-2025 04:30PM EDT
214.56	Condition: Regular	07-15-2025 04:15PM EDT
244.32	Condition: Regular	07-15-2025 04:00PM EDT
232.8	Condition: Regular	07-15-2025 03:45PM EDT
156	Condition: Regular	07-15-2025 03:30PM EDT
57.12	Condition: Regular	07-15-2025 03:15PM EDT
262.08	Condition: Regular	07-15-2025 03:00PM EDT
102.72	Condition: Regular	07-15-2025 02:45PM EDT
71.04	Condition: Regular	07-15-2025 02:30PM EDT
106.08	Condition: Regular	07-15-2025 02:15PM EDT
164.16	Condition: Regular	07-15-2025 02:00PM EDT
142.08	Condition: Regular	07-15-2025 01:45PM EDT
167.04	Condition: Regular	07-15-2025 01:30PM EDT
156.96	Condition: Regular	07-15-2025 01:15PM EDT
116.64	Condition: Regular	07-15-2025 01:00PM EDT
97.44	Condition: Regular	07-15-2025 12:45PM EDT
73.92	Condition: Regular	07-15-2025 12:30PM EDT
66.24	Condition: Regular	07-15-2025 12:15PM EDT
81.6	Condition: Regular	07-15-2025 12:00PM EDT
67.2	Condition: Regular	07-15-2025 11:45AM EDT
46.56	Condition: Regular	07-15-2025 11:30AM EDT
16.32	Condition: Regular	07-15-2025 11:15AM EDT
24.48	Condition: Regular	07-15-2025 11:00AM EDT
47.04	Condition: Regular	07-15-2025 10:45AM EDT
64.8	Condition: Regular	07-15-2025 10:30AM EDT
21.12	Condition: Regular	07-15-2025 10:15AM EDT
18.72	Condition: Regular	07-15-2025 10:00AM EDT
41.28	Condition: Regular	07-15-2025 09:45AM EDT
47.04	Condition: Regular	07-15-2025 09:30AM EDT
43.68	Condition: Regular	07-15-2025 09:15AM EDT
30.24	Condition: Regular	07-15-2025 09:00AM EDT
26.88	Condition: Regular	07-15-2025 08:45AM EDT
23.52	Condition: Regular	07-15-2025 08:30AM EDT
16.8	Condition: Regular	07-15-2025 08:15AM EDT
16.8	Condition: Regular	07-15-2025 08:00AM EDT
3.36	Condition: Regular	07-15-2025 07:45AM EDT
9.12	Condition: Regular	07-15-2025 07:30AM EDT

5.76	Condition: Regular	07-15-2025 07:15AM EDT
0	Condition: Regular	07-15-2025 07:00AM EDT
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0	Condition: Regular	07-15-2025 04:00AM EDT
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0	Condition: Regular	07-14-2025 05:15PM EDT
0.96	Condition: Regular	07-14-2025 05:00PM EDT
1.92	Condition: Regular	07-14-2025 04:45PM EDT
8.64	Condition: Regular	07-14-2025 04:30PM EDT
29.76	Condition: Regular	07-14-2025 04:15PM EDT
164.16	Condition: Regular	07-14-2025 04:00PM EDT
183.84	Condition: Regular	07-14-2025 03:45PM EDT
24.48	Condition: Regular	07-14-2025 03:30PM EDT
127.68	Condition: Regular	07-14-2025 03:15PM EDT
189.12	Condition: Regular	07-14-2025 03:00PM EDT
219.36	Condition: Regular	07-14-2025 02:45PM EDT
223.2	Condition: Regular	07-14-2025 02:30PM EDT
263.04	Condition: Regular	07-14-2025 02:15PM EDT
156	Condition: Regular	07-14-2025 02:00PM EDT
220.32	Condition: Regular	07-14-2025 01:45PM EDT

254.88	Condition: Regular	07-14-2025 01:30PM EDT
260.64	Condition: Regular	07-14-2025 01:15PM EDT
192	Condition: Regular	07-14-2025 01:00PM EDT
140.64	Condition: Regular	07-14-2025 12:45PM EDT
199.2	Condition: Regular	07-14-2025 12:30PM EDT
235.2	Condition: Regular	07-14-2025 12:15PM EDT
261.6	Condition: Regular	07-14-2025 12:00PM EDT
147.84	Condition: Regular	07-14-2025 11:45AM EDT
167.04	Condition: Regular	07-14-2025 11:30AM EDT
110.4	Condition: Regular	07-14-2025 11:15AM EDT
128.16	Condition: Regular	07-14-2025 11:00AM EDT
146.88	Condition: Regular	07-14-2025 10:45AM EDT
137.28	Condition: Regular	07-14-2025 10:30AM EDT
105.6	Condition: Regular	07-14-2025 10:15AM EDT
101.28	Condition: Regular	07-14-2025 10:00AM EDT
99.84	Condition: Regular	07-14-2025 09:45AM EDT
59.52	Condition: Regular	07-14-2025 09:30AM EDT
29.28	Condition: Regular	07-14-2025 09:15AM EDT
24.48	Condition: Regular	07-14-2025 09:00AM EDT
36	Condition: Regular	07-14-2025 08:45AM EDT
51.84	Condition: Regular	07-14-2025 08:30AM EDT
20.16	Condition: Regular	07-14-2025 08:15AM EDT
15.84	Condition: Regular	07-14-2025 08:00AM EDT
21.6	Condition: Regular	07-14-2025 07:45AM EDT
30.72	Condition: Regular	07-14-2025 07:30AM EDT
12.48	Condition: Regular	07-14-2025 07:15AM EDT
2.4	Condition: Regular	07-14-2025 07:00AM EDT
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11.52	Condition: Regular	07-13-2025 07:15PM EDT
27.36	Condition: Regular	07-13-2025 07:00PM EDT
21.6	Condition: Regular	07-13-2025 06:45PM EDT
34.08	Condition: Regular	07-13-2025 06:30PM EDT
68.16	Condition: Regular	07-13-2025 06:15PM EDT
84	Condition: Regular	07-13-2025 06:00PM EDT
111.84	Condition: Regular	07-13-2025 05:45PM EDT
90.72	Condition: Regular	07-13-2025 05:30PM EDT
63.36	Condition: Regular	07-13-2025 05:15PM EDT
60.96	Condition: Regular	07-13-2025 05:00PM EDT
69.12	Condition: Regular	07-13-2025 04:45PM EDT
129.12	Condition: Regular	07-13-2025 04:30PM EDT
83.52	Condition: Regular	07-13-2025 04:15PM EDT
73.44	Condition: Regular	07-13-2025 04:00PM EDT
96.48	Condition: Regular	07-13-2025 03:45PM EDT
240.48	Condition: Regular	07-13-2025 03:30PM EDT
186.72	Condition: Regular	07-13-2025 03:15PM EDT
160.8	Condition: Regular	07-13-2025 03:00PM EDT
93.6	Condition: Regular	07-13-2025 02:45PM EDT
96	Condition: Regular	07-13-2025 02:30PM EDT
143.04	Condition: Regular	07-13-2025 02:15PM EDT
101.76	Condition: Regular	07-13-2025 02:00PM EDT
248.16	Condition: Regular	07-13-2025 01:45PM EDT
165.6	Condition: Regular	07-13-2025 01:30PM EDT
151.2	Condition: Regular	07-13-2025 01:15PM EDT
221.28	Condition: Regular	07-13-2025 01:00PM EDT
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155.52	Condition: Regular	07-13-2025 12:30PM EDT
254.88	Condition: Regular	07-13-2025 12:15PM EDT
239.52	Condition: Regular	07-13-2025 12:00PM EDT
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264.96	Condition: Regular	07-13-2025 11:30AM EDT
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137.76	Condition: Regular	07-13-2025 11:00AM EDT
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119.52	Condition: Regular	07-13-2025 10:30AM EDT
93.6	Condition: Regular	07-13-2025 10:15AM EDT
83.52	Condition: Regular	07-13-2025 10:00AM EDT
109.44	Condition: Regular	07-13-2025 09:45AM EDT
60	Condition: Regular	07-13-2025 09:30AM EDT
73.44	Condition: Regular	07-13-2025 09:15AM EDT
106.08	Condition: Regular	07-13-2025 09:00AM EDT
73.44	Condition: Regular	07-13-2025 08:45AM EDT
100.32	Condition: Regular	07-13-2025 08:30AM EDT
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38.88	Condition: Regular	07-13-2025 07:45AM EDT
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88.32	Condition: Regular	07-12-2025 06:00PM EDT
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111.36	Condition: Regular	07-12-2025 05:30PM EDT
162.24	Condition: Regular	07-12-2025 05:15PM EDT
51.84	Condition: Regular	07-12-2025 05:00PM EDT
126.72	Condition: Regular	07-12-2025 04:45PM EDT
197.28	Condition: Regular	07-12-2025 04:30PM EDT
224.64	Condition: Regular	07-12-2025 04:15PM EDT
127.68	Condition: Regular	07-12-2025 04:00PM EDT
182.88	Condition: Regular	07-12-2025 03:45PM EDT
243.84	Condition: Regular	07-12-2025 03:30PM EDT
89.28	Condition: Regular	07-12-2025 03:15PM EDT
271.68	Condition: Regular	07-12-2025 03:00PM EDT
275.04	Condition: Regular	07-12-2025 02:45PM EDT
242.4	Condition: Regular	07-12-2025 02:30PM EDT
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279.36	Condition: Regular	07-12-2025 02:00PM EDT
286.08	Condition: Regular	07-12-2025 01:45PM EDT
268.32	Condition: Regular	07-12-2025 01:30PM EDT
266.88	Condition: Regular	07-12-2025 01:15PM EDT
282.72	Condition: Regular	07-12-2025 01:00PM EDT
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272.64	Condition: Regular	07-12-2025 12:15PM EDT
280.8	Condition: Regular	07-12-2025 12:00PM EDT
161.28	Condition: Regular	07-12-2025 11:45AM EDT
230.88	Condition: Regular	07-12-2025 11:30AM EDT
216.48	Condition: Regular	07-12-2025 11:15AM EDT
191.52	Condition: Regular	07-12-2025 11:00AM EDT
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222.24	Condition: Regular	07-12-2025 10:30AM EDT
142.08	Condition: Regular	07-12-2025 10:15AM EDT
118.56	Condition: Regular	07-12-2025 10:00AM EDT
127.68	Condition: Regular	07-12-2025 09:45AM EDT
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148.8	Condition: Regular	07-12-2025 09:15AM EDT
132	Condition: Regular	07-12-2025 09:00AM EDT
108.48	Condition: Regular	07-12-2025 08:45AM EDT
46.56	Condition: Regular	07-12-2025 08:30AM EDT

46.56	Condition: Regular	07-12-2025 08:15AM EDT
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113.76	Condition: Regular	07-11-2025 06:15PM EDT
131.52	Condition: Regular	07-11-2025 06:00PM EDT
132.96	Condition: Regular	07-11-2025 05:45PM EDT
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111.84	Condition: Regular	07-11-2025 05:00PM EDT
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217.44	Condition: Regular	07-11-2025 04:30PM EDT
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192.96	Condition: Regular	07-11-2025 04:00PM EDT
231.36	Condition: Regular	07-11-2025 03:45PM EDT
247.68	Condition: Regular	07-11-2025 03:30PM EDT
247.68	Condition: Regular	07-11-2025 03:15PM EDT
249.6	Condition: Regular	07-11-2025 03:00PM EDT
249.6	Condition: Regular	07-11-2025 02:45PM EDT

233.28	Condition: Regular	07-11-2025 02:30PM EDT
253.92	Condition: Regular	07-11-2025 02:15PM EDT
254.88	Condition: Regular	07-11-2025 02:00PM EDT
263.04	Condition: Regular	07-11-2025 01:45PM EDT
227.04	Condition: Regular	07-11-2025 01:30PM EDT
255.84	Condition: Regular	07-11-2025 01:15PM EDT
215.04	Condition: Regular	07-11-2025 01:00PM EDT
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214.56	Condition: Regular	07-11-2025 12:30PM EDT
228	Condition: Regular	07-11-2025 12:15PM EDT
168.96	Condition: Regular	07-11-2025 12:00PM EDT
206.4	Condition: Regular	07-11-2025 11:45AM EDT
149.76	Condition: Regular	07-11-2025 11:30AM EDT
193.44	Condition: Regular	07-11-2025 11:15AM EDT
129.6	Condition: Regular	07-11-2025 11:00AM EDT
97.44	Condition: Regular	07-11-2025 10:45AM EDT
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196.32	Condition: Regular	07-11-2025 10:00AM EDT
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25.92	Condition: Regular	07-11-2025 08:00AM EDT
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75.36	Condition: Regular	07-10-2025 06:45PM EDT
98.88	Condition: Regular	07-10-2025 06:30PM EDT
106.56	Condition: Regular	07-10-2025 06:15PM EDT
113.28	Condition: Regular	07-10-2025 06:00PM EDT
70.08	Condition: Regular	07-10-2025 05:45PM EDT
79.2	Condition: Regular	07-10-2025 05:30PM EDT
69.12	Condition: Regular	07-10-2025 05:15PM EDT
48.48	Condition: Regular	07-10-2025 05:00PM EDT
79.2	Condition: Regular	07-10-2025 04:45PM EDT
118.56	Condition: Regular	07-10-2025 04:30PM EDT
184.32	Condition: Regular	07-10-2025 04:15PM EDT
173.28	Condition: Regular	07-10-2025 04:00PM EDT
175.68	Condition: Regular	07-10-2025 03:45PM EDT
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120.48	Condition: Regular	07-10-2025 03:15PM EDT
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112.32	Condition: Regular	07-10-2025 02:30PM EDT
102.24	Condition: Regular	07-10-2025 02:15PM EDT
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193.44	Condition: Regular	07-10-2025 12:45PM EDT
148.8	Condition: Regular	07-10-2025 12:30PM EDT
189.12	Condition: Regular	07-10-2025 12:15PM EDT
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132.48	Condition: Regular	07-10-2025 11:45AM EDT
105.6	Condition: Regular	07-10-2025 11:30AM EDT
120.48	Condition: Regular	07-10-2025 11:15AM EDT
133.92	Condition: Regular	07-10-2025 11:00AM EDT
91.2	Condition: Regular	07-10-2025 10:45AM EDT
52.8	Condition: Regular	07-10-2025 10:30AM EDT
33.6	Condition: Regular	07-10-2025 10:15AM EDT
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39.36	Condition: Regular	07-10-2025 09:45AM EDT
22.56	Condition: Regular	07-10-2025 09:30AM EDT
15.84	Condition: Regular	07-10-2025 09:15AM EDT
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7.68	Condition: Regular	07-10-2025 08:45AM EDT
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21.6	Condition: Regular	07-10-2025 08:00AM EDT
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93.6	Condition: Regular	07-09-2025 05:30PM EDT
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151.68	Condition: Regular	07-09-2025 05:00PM EDT
175.2	Condition: Regular	07-09-2025 04:45PM EDT
182.88	Condition: Regular	07-09-2025 04:30PM EDT
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207.36	Condition: Regular	07-09-2025 04:00PM EDT
220.8	Condition: Regular	07-09-2025 03:45PM EDT
223.2	Condition: Regular	07-09-2025 03:30PM EDT
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206.88	Condition: Regular	07-09-2025 03:00PM EDT
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248.64	Condition: Regular	07-09-2025 02:30PM EDT
174.24	Condition: Regular	07-09-2025 02:15PM EDT
210.24	Condition: Regular	07-09-2025 02:00PM EDT
190.08	Condition: Regular	07-09-2025 01:45PM EDT
144.96	Condition: Regular	07-09-2025 01:30PM EDT
223.68	Condition: Regular	07-09-2025 01:15PM EDT
228.48	Condition: Regular	07-09-2025 01:00PM EDT
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147.84	Condition: Regular	07-09-2025 12:15PM EDT
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201.12	Condition: Regular	07-09-2025 10:45AM EDT
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174.24	Condition: Regular	07-09-2025 10:00AM EDT
154.08	Condition: Regular	07-09-2025 09:45AM EDT
122.88	Condition: Regular	07-09-2025 09:30AM EDT

103.68	Condition: Regular	07-09-2025 09:15AM EDT
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90.24	Condition: Regular	07-09-2025 08:30AM EDT
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24.48	Condition: Regular	07-09-2025 08:00AM EDT
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128.64	Condition: Regular	07-08-2025 04:00PM EDT
206.4	Condition: Regular	07-08-2025 03:45PM EDT

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239.52	Condition: Regular	07-08-2025 03:00PM EDT
246.24	Condition: Regular	07-08-2025 02:45PM EDT
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202.56	Condition: Regular	07-08-2025 02:15PM EDT
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246.24	Condition: Regular	07-08-2025 01:30PM EDT
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240.48	Condition: Regular	07-08-2025 01:00PM EDT
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230.4	Condition: Regular	07-08-2025 12:15PM EDT
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205.92	Condition: Regular	07-08-2025 11:15AM EDT
196.8	Condition: Regular	07-08-2025 11:00AM EDT
199.68	Condition: Regular	07-08-2025 10:45AM EDT
159.84	Condition: Regular	07-08-2025 10:30AM EDT
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163.68	Condition: Regular	07-08-2025 10:00AM EDT
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63.84	Condition: Regular	07-08-2025 08:15AM EDT
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134.88	Condition: Regular	07-07-2025 02:00PM EDT
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73.92	Condition: Regular	07-07-2025 01:30PM EDT
204	Condition: Regular	07-07-2025 01:15PM EDT
200.64	Condition: Regular	07-07-2025 01:00PM EDT
116.64	Condition: Regular	07-07-2025 12:45PM EDT
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98.88	Condition: Regular	07-07-2025 12:15PM EDT
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67.68	Condition: Regular	07-07-2025 11:00AM EDT
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203.04	Condition: Regular	07-06-2025 10:30AM EDT

192.96	Condition: Regular	07-06-2025 10:15AM EDT
182.88	Condition: Regular	07-06-2025 10:00AM EDT
170.4	Condition: Regular	07-06-2025 09:45AM EDT
152.64	Condition: Regular	07-06-2025 09:30AM EDT
136.8	Condition: Regular	07-06-2025 09:15AM EDT
114.24	Condition: Regular	07-06-2025 09:00AM EDT
97.44	Condition: Regular	07-06-2025 08:45AM EDT
86.4	Condition: Regular	07-06-2025 08:30AM EDT
76.32	Condition: Regular	07-06-2025 08:15AM EDT
64.32	Condition: Regular	07-06-2025 08:00AM EDT
50.88	Condition: Regular	07-06-2025 07:45AM EDT
35.04	Condition: Regular	07-06-2025 07:30AM EDT
21.6	Condition: Regular	07-06-2025 07:15AM EDT
13.92	Condition: Regular	07-06-2025 07:00AM EDT
7.2	Condition: Regular	07-06-2025 06:45AM EDT
4.8	Condition: Regular	07-06-2025 06:30AM EDT
0	Condition: Regular	07-06-2025 06:15AM EDT
0	Condition: Regular	07-06-2025 06:00AM EDT
0	Condition: Regular	07-06-2025 05:45AM EDT
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12.96	Condition: Regular	07-05-2025 07:30PM EDT
34.56	Condition: Regular	07-05-2025 07:15PM EDT
52.32	Condition: Regular	07-05-2025 07:00PM EDT
71.52	Condition: Regular	07-05-2025 06:45PM EDT
87.36	Condition: Regular	07-05-2025 06:30PM EDT
103.2	Condition: Regular	07-05-2025 06:15PM EDT
121.92	Condition: Regular	07-05-2025 06:00PM EDT
142.08	Condition: Regular	07-05-2025 05:45PM EDT
155.52	Condition: Regular	07-05-2025 05:30PM EDT
172.32	Condition: Regular	07-05-2025 05:15PM EDT
182.4	Condition: Regular	07-05-2025 05:00PM EDT
198.24	Condition: Regular	07-05-2025 04:45PM EDT

203.52	Condition: Regular	07-05-2025 04:30PM EDT
216.96	Condition: Regular	07-05-2025 04:15PM EDT
226.08	Condition: Regular	07-05-2025 04:00PM EDT
233.76	Condition: Regular	07-05-2025 03:45PM EDT
242.88	Condition: Regular	07-05-2025 03:30PM EDT
249.6	Condition: Regular	07-05-2025 03:15PM EDT
257.28	Condition: Regular	07-05-2025 03:00PM EDT
257.28	Condition: Regular	07-05-2025 02:45PM EDT
250.08	Condition: Regular	07-05-2025 02:30PM EDT
262.08	Condition: Regular	07-05-2025 02:15PM EDT
240	Condition: Regular	07-05-2025 02:00PM EDT
228.48	Condition: Regular	07-05-2025 01:45PM EDT
252	Condition: Regular	07-05-2025 01:30PM EDT
226.08	Condition: Regular	07-05-2025 01:15PM EDT
250.56	Condition: Regular	07-05-2025 01:00PM EDT
248.16	Condition: Regular	07-05-2025 12:45PM EDT
250.56	Condition: Regular	07-05-2025 12:30PM EDT
244.8	Condition: Regular	07-05-2025 12:15PM EDT
245.76	Condition: Regular	07-05-2025 12:00PM EDT
231.36	Condition: Regular	07-05-2025 11:45AM EDT
232.32	Condition: Regular	07-05-2025 11:30AM EDT
225.6	Condition: Regular	07-05-2025 11:15AM EDT
222.24	Condition: Regular	07-05-2025 11:00AM EDT
212.16	Condition: Regular	07-05-2025 10:45AM EDT
196.32	Condition: Regular	07-05-2025 10:30AM EDT
186.24	Condition: Regular	07-05-2025 10:15AM EDT
172.8	Condition: Regular	07-05-2025 10:00AM EDT
166.08	Condition: Regular	07-05-2025 09:45AM EDT
152.64	Condition: Regular	07-05-2025 09:30AM EDT
136.8	Condition: Regular	07-05-2025 09:15AM EDT
116.64	Condition: Regular	07-05-2025 09:00AM EDT
103.2	Condition: Regular	07-05-2025 08:45AM EDT
92.16	Condition: Regular	07-05-2025 08:30AM EDT
84.48	Condition: Regular	07-05-2025 08:15AM EDT
67.68	Condition: Regular	07-05-2025 08:00AM EDT
40.8	Condition: Regular	07-05-2025 07:45AM EDT
27.36	Condition: Regular	07-05-2025 07:30AM EDT
19.68	Condition: Regular	07-05-2025 07:15AM EDT
10.56	Condition: Regular	07-05-2025 07:00AM EDT
7.2	Condition: Regular	07-05-2025 06:45AM EDT
4.8	Condition: Regular	07-05-2025 06:30AM EDT
2.4	Condition: Regular	07-05-2025 06:15AM EDT
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48.96	Condition: Regular	07-04-2025 07:00PM EDT
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86.4	Condition: Regular	07-04-2025 06:30PM EDT
104.16	Condition: Regular	07-04-2025 06:15PM EDT
126.72	Condition: Regular	07-04-2025 06:00PM EDT
148.8	Condition: Regular	07-04-2025 05:45PM EDT
155.52	Condition: Regular	07-04-2025 05:30PM EDT
162.24	Condition: Regular	07-04-2025 05:15PM EDT
172.32	Condition: Regular	07-04-2025 05:00PM EDT
190.08	Condition: Regular	07-04-2025 04:45PM EDT
202.56	Condition: Regular	07-04-2025 04:30PM EDT
215.04	Condition: Regular	07-04-2025 04:15PM EDT
229.44	Condition: Regular	07-04-2025 04:00PM EDT
232.8	Condition: Regular	07-04-2025 03:45PM EDT
245.28	Condition: Regular	07-04-2025 03:30PM EDT
249.6	Condition: Regular	07-04-2025 03:15PM EDT
238.08	Condition: Regular	07-04-2025 03:00PM EDT
272.64	Condition: Regular	07-04-2025 02:45PM EDT
193.92	Condition: Regular	07-04-2025 02:30PM EDT
266.88	Condition: Regular	07-04-2025 02:15PM EDT
264.96	Condition: Regular	07-04-2025 02:00PM EDT
271.68	Condition: Regular	07-04-2025 01:45PM EDT
272.64	Condition: Regular	07-04-2025 01:30PM EDT
271.68	Condition: Regular	07-04-2025 01:15PM EDT
272.64	Condition: Regular	07-04-2025 01:00PM EDT
272.64	Condition: Regular	07-04-2025 12:45PM EDT
270.72	Condition: Regular	07-04-2025 12:30PM EDT
265.92	Condition: Regular	07-04-2025 12:15PM EDT
262.56	Condition: Regular	07-04-2025 12:00PM EDT
255.84	Condition: Regular	07-04-2025 11:45AM EDT
252.48	Condition: Regular	07-04-2025 11:30AM EDT
245.76	Condition: Regular	07-04-2025 11:15AM EDT
233.28	Condition: Regular	07-04-2025 11:00AM EDT
225.6	Condition: Regular	07-04-2025 10:45AM EDT
215.52	Condition: Regular	07-04-2025 10:30AM EDT
205.44	Condition: Regular	07-04-2025 10:15AM EDT
195.36	Condition: Regular	07-04-2025 10:00AM EDT
184.32	Condition: Regular	07-04-2025 09:45AM EDT
167.04	Condition: Regular	07-04-2025 09:30AM EDT
152.64	Condition: Regular	07-04-2025 09:15AM EDT
134.4	Condition: Regular	07-04-2025 09:00AM EDT
116.64	Condition: Regular	07-04-2025 08:45AM EDT
99.84	Condition: Regular	07-04-2025 08:30AM EDT
82.08	Condition: Regular	07-04-2025 08:15AM EDT
66.24	Condition: Regular	07-04-2025 08:00AM EDT
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13.92	Condition: Regular	07-03-2025 07:15PM EDT
38.88	Condition: Regular	07-03-2025 07:00PM EDT
70.56	Condition: Regular	07-03-2025 06:45PM EDT
87.36	Condition: Regular	07-03-2025 06:30PM EDT
105.6	Condition: Regular	07-03-2025 06:15PM EDT
116.64	Condition: Regular	07-03-2025 06:00PM EDT
148.8	Condition: Regular	07-03-2025 05:45PM EDT
169.92	Condition: Regular	07-03-2025 05:30PM EDT
168.96	Condition: Regular	07-03-2025 05:15PM EDT
174.24	Condition: Regular	07-03-2025 05:00PM EDT
174.24	Condition: Regular	07-03-2025 04:45PM EDT
195.36	Condition: Regular	07-03-2025 04:30PM EDT
182.88	Condition: Regular	07-03-2025 04:15PM EDT
204	Condition: Regular	07-03-2025 04:00PM EDT
214.08	Condition: Regular	07-03-2025 03:45PM EDT
223.2	Condition: Regular	07-03-2025 03:30PM EDT
227.52	Condition: Regular	07-03-2025 03:15PM EDT
236.64	Condition: Regular	07-03-2025 03:00PM EDT
237.6	Condition: Regular	07-03-2025 02:45PM EDT
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241.92	Condition: Regular	07-03-2025 02:15PM EDT
241.92	Condition: Regular	07-03-2025 02:00PM EDT
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243.84	Condition: Regular	07-03-2025 01:30PM EDT
252.48	Condition: Regular	07-03-2025 01:15PM EDT
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259.68	Condition: Regular	07-03-2025 12:45PM EDT
254.88	Condition: Regular	07-03-2025 12:30PM EDT
252.96	Condition: Regular	07-03-2025 12:15PM EDT
245.76	Condition: Regular	07-03-2025 12:00PM EDT
238.08	Condition: Regular	07-03-2025 11:45AM EDT
232.32	Condition: Regular	07-03-2025 11:30AM EDT

224.64	Condition: Regular	07-03-2025 11:15AM EDT
215.52	Condition: Regular	07-03-2025 11:00AM EDT
205.44	Condition: Regular	07-03-2025 10:45AM EDT
152.64	Condition: Regular	07-03-2025 10:30AM EDT
156	Condition: Regular	07-03-2025 10:15AM EDT
173.76	Condition: Regular	07-03-2025 10:00AM EDT
162.72	Condition: Regular	07-03-2025 09:45AM EDT
147.84	Condition: Regular	07-03-2025 09:30AM EDT
134.4	Condition: Regular	07-03-2025 09:15AM EDT
117.6	Condition: Regular	07-03-2025 09:00AM EDT
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85.92	Condition: Regular	07-03-2025 08:30AM EDT
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48.96	Condition: Regular	07-03-2025 08:00AM EDT
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28.8	Condition: Regular	07-03-2025 07:30AM EDT
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2.4	Condition: Regular	07-02-2025 08:00PM EDT
9.6	Condition: Regular	07-02-2025 07:45PM EDT
26.88	Condition: Regular	07-02-2025 07:30PM EDT
40.32	Condition: Regular	07-02-2025 07:15PM EDT
58.56	Condition: Regular	07-02-2025 07:00PM EDT
60.48	Condition: Regular	07-02-2025 06:45PM EDT
97.92	Condition: Regular	07-02-2025 06:30PM EDT
116.16	Condition: Regular	07-02-2025 06:15PM EDT
121.44	Condition: Regular	07-02-2025 06:00PM EDT
89.28	Condition: Regular	07-02-2025 05:45PM EDT

170.4	Condition: Regular	07-02-2025 05:30PM EDT
186.24	Condition: Regular	07-02-2025 05:15PM EDT
189.6	Condition: Regular	07-02-2025 05:00PM EDT
201.6	Condition: Regular	07-02-2025 04:45PM EDT
214.56	Condition: Regular	07-02-2025 04:30PM EDT
239.04	Condition: Regular	07-02-2025 04:15PM EDT
211.68	Condition: Regular	07-02-2025 04:00PM EDT
241.92	Condition: Regular	07-02-2025 03:45PM EDT
120.96	Condition: Regular	07-02-2025 03:30PM EDT
262.08	Condition: Regular	07-02-2025 03:15PM EDT
219.36	Condition: Regular	07-02-2025 03:00PM EDT
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153.12	Condition: Regular	07-02-2025 02:15PM EDT
219.36	Condition: Regular	07-02-2025 02:00PM EDT
200.16	Condition: Regular	07-02-2025 01:45PM EDT
217.92	Condition: Regular	07-02-2025 01:30PM EDT
191.52	Condition: Regular	07-02-2025 01:15PM EDT
152.64	Condition: Regular	07-02-2025 01:00PM EDT
132.48	Condition: Regular	07-02-2025 12:45PM EDT
122.88	Condition: Regular	07-02-2025 12:30PM EDT
136.32	Condition: Regular	07-02-2025 12:15PM EDT
134.88	Condition: Regular	07-02-2025 12:00PM EDT
101.28	Condition: Regular	07-02-2025 11:45AM EDT
120.48	Condition: Regular	07-02-2025 11:30AM EDT
123.84	Condition: Regular	07-02-2025 11:15AM EDT
84	Condition: Regular	07-02-2025 11:00AM EDT
63.84	Condition: Regular	07-02-2025 10:45AM EDT
44.64	Condition: Regular	07-02-2025 10:30AM EDT
63.84	Condition: Regular	07-02-2025 10:15AM EDT
92.16	Condition: Regular	07-02-2025 10:00AM EDT
79.68	Condition: Regular	07-02-2025 09:45AM EDT
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0	Condition: Regular	07-01-2025 03:00PM EDT
14.4	Condition: Regular	07-01-2025 02:45PM EDT
77.76	Condition: Regular	07-01-2025 02:30PM EDT
240.48	Condition: Regular	07-01-2025 02:15PM EDT
246.24	Condition: Regular	07-01-2025 02:00PM EDT
36.48	Condition: Regular	07-01-2025 01:45PM EDT
13.44	Condition: Regular	07-01-2025 01:30PM EDT
168	Condition: Regular	07-01-2025 01:15PM EDT
216.48	Condition: Regular	07-01-2025 01:00PM EDT
189.12	Condition: Regular	07-01-2025 12:45PM EDT
104.16	Condition: Regular	07-01-2025 12:30PM EDT
156.96	Condition: Regular	07-01-2025 12:15PM EDT
161.76	Condition: Regular	07-01-2025 12:00PM EDT
203.04	Condition: Regular	07-01-2025 11:45AM EDT
191.04	Condition: Regular	07-01-2025 11:30AM EDT
200.64	Condition: Regular	07-01-2025 11:15AM EDT
145.92	Condition: Regular	07-01-2025 11:00AM EDT
196.32	Condition: Regular	07-01-2025 10:45AM EDT
187.2	Condition: Regular	07-01-2025 10:30AM EDT
175.2	Condition: Regular	07-01-2025 10:15AM EDT
175.2	Condition: Regular	07-01-2025 10:00AM EDT
104.16	Condition: Regular	07-01-2025 09:45AM EDT
126.72	Condition: Regular	07-01-2025 09:30AM EDT
117.6	Condition: Regular	07-01-2025 09:15AM EDT
83.04	Condition: Regular	07-01-2025 09:00AM EDT
43.68	Condition: Regular	07-01-2025 08:45AM EDT
70.56	Condition: Regular	07-01-2025 08:30AM EDT
79.68	Condition: Regular	07-01-2025 08:15AM EDT
86.4	Condition: Regular	07-01-2025 08:00AM EDT
51.84	Condition: Regular	07-01-2025 07:45AM EDT
21.6	Condition: Regular	07-01-2025 07:30AM EDT
5.76	Condition: Regular	07-01-2025 07:15AM EDT
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19.68	Condition: Regular	06-30-2025 04:30PM EDT
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36.96	Condition: Regular	06-30-2025 03:00PM EDT
76.32	Condition: Regular	06-30-2025 02:45PM EDT
48	Condition: Regular	06-30-2025 02:30PM EDT
92.16	Condition: Regular	06-30-2025 02:15PM EDT
192.48	Condition: Regular	06-30-2025 02:00PM EDT
260.64	Condition: Regular	06-30-2025 01:45PM EDT
265.44	Condition: Regular	06-30-2025 01:30PM EDT
194.88	Condition: Regular	06-30-2025 01:15PM EDT
195.36	Condition: Regular	06-30-2025 01:00PM EDT
252.96	Condition: Regular	06-30-2025 12:45PM EDT
223.68	Condition: Regular	06-30-2025 12:30PM EDT

153.12	Condition: Regular	06-30-2025 12:15PM EDT
224.64	Condition: Regular	06-30-2025 12:00PM EDT
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165.12	Condition: Regular	06-30-2025 11:30AM EDT
213.12	Condition: Regular	06-30-2025 11:15AM EDT
173.76	Condition: Regular	06-30-2025 11:00AM EDT
187.2	Condition: Regular	06-30-2025 10:45AM EDT
131.04	Condition: Regular	06-30-2025 10:30AM EDT
190.56	Condition: Regular	06-30-2025 10:15AM EDT
162.72	Condition: Regular	06-30-2025 10:00AM EDT
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132.48	Condition: Regular	06-30-2025 09:30AM EDT
120.96	Condition: Regular	06-30-2025 09:15AM EDT
84	Condition: Regular	06-30-2025 09:00AM EDT
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18.24	Condition: Regular	06-30-2025 07:30AM EDT
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22.08	Condition: Regular	06-29-2025 07:30PM EDT
36.96	Condition: Regular	06-29-2025 07:15PM EDT
56.16	Condition: Regular	06-29-2025 07:00PM EDT
76.32	Condition: Regular	06-29-2025 06:45PM EDT

91.2	Condition: Regular	06-29-2025 06:30PM EDT
98.88	Condition: Regular	06-29-2025 06:15PM EDT
122.88	Condition: Regular	06-29-2025 06:00PM EDT
116.64	Condition: Regular	06-29-2025 05:45PM EDT
166.08	Condition: Regular	06-29-2025 05:30PM EDT
165.12	Condition: Regular	06-29-2025 05:15PM EDT
188.64	Condition: Regular	06-29-2025 05:00PM EDT
198.72	Condition: Regular	06-29-2025 04:45PM EDT
214.56	Condition: Regular	06-29-2025 04:30PM EDT
224.64	Condition: Regular	06-29-2025 04:15PM EDT
238.08	Condition: Regular	06-29-2025 04:00PM EDT
196.32	Condition: Regular	06-29-2025 03:45PM EDT
167.04	Condition: Regular	06-29-2025 03:30PM EDT
219.84	Condition: Regular	06-29-2025 03:15PM EDT
200.64	Condition: Regular	06-29-2025 03:00PM EDT
272.64	Condition: Regular	06-29-2025 02:45PM EDT
164.64	Condition: Regular	06-29-2025 02:30PM EDT
121.92	Condition: Regular	06-29-2025 02:15PM EDT
102.72	Condition: Regular	06-29-2025 02:00PM EDT
208.8	Condition: Regular	06-29-2025 01:45PM EDT
215.04	Condition: Regular	06-29-2025 01:30PM EDT
240.96	Condition: Regular	06-29-2025 01:15PM EDT
291.36	Condition: Regular	06-29-2025 01:00PM EDT
220.32	Condition: Regular	06-29-2025 12:45PM EDT
257.28	Condition: Regular	06-29-2025 12:30PM EDT
265.92	Condition: Regular	06-29-2025 12:15PM EDT
277.92	Condition: Regular	06-29-2025 12:00PM EDT
247.68	Condition: Regular	06-29-2025 11:45AM EDT
185.76	Condition: Regular	06-29-2025 11:30AM EDT
171.36	Condition: Regular	06-29-2025 11:15AM EDT
181.44	Condition: Regular	06-29-2025 11:00AM EDT
250.08	Condition: Regular	06-29-2025 10:45AM EDT
230.88	Condition: Regular	06-29-2025 10:30AM EDT
208.32	Condition: Regular	06-29-2025 10:15AM EDT
194.88	Condition: Regular	06-29-2025 10:00AM EDT
175.68	Condition: Regular	06-29-2025 09:45AM EDT
159.84	Condition: Regular	06-29-2025 09:30AM EDT
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130.56	Condition: Regular	06-29-2025 09:00AM EDT
113.76	Condition: Regular	06-29-2025 08:45AM EDT
99.36	Condition: Regular	06-29-2025 08:30AM EDT
81.12	Condition: Regular	06-29-2025 08:15AM EDT
64.32	Condition: Regular	06-29-2025 08:00AM EDT
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39.84	Condition: Regular	06-29-2025 07:30AM EDT
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76.32	Condition: Regular	06-28-2025 06:45PM EDT
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104.64	Condition: Regular	06-28-2025 06:15PM EDT
119.04	Condition: Regular	06-28-2025 06:00PM EDT
140.16	Condition: Regular	06-28-2025 05:45PM EDT
156	Condition: Regular	06-28-2025 05:30PM EDT
166.08	Condition: Regular	06-28-2025 05:15PM EDT
184.32	Condition: Regular	06-28-2025 05:00PM EDT
196.32	Condition: Regular	06-28-2025 04:45PM EDT
184.32	Condition: Regular	06-28-2025 04:30PM EDT
217.92	Condition: Regular	06-28-2025 04:15PM EDT
222.24	Condition: Regular	06-28-2025 04:00PM EDT
222.24	Condition: Regular	06-28-2025 03:45PM EDT
244.8	Condition: Regular	06-28-2025 03:30PM EDT
254.88	Condition: Regular	06-28-2025 03:15PM EDT
264	Condition: Regular	06-28-2025 03:00PM EDT
276	Condition: Regular	06-28-2025 02:45PM EDT
278.4	Condition: Regular	06-28-2025 02:30PM EDT
279.36	Condition: Regular	06-28-2025 02:15PM EDT
266.88	Condition: Regular	06-28-2025 02:00PM EDT
252	Condition: Regular	06-28-2025 01:45PM EDT
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246.72	Condition: Regular	06-28-2025 01:15PM EDT
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267.84	Condition: Regular	06-28-2025 12:45PM EDT
271.2	Condition: Regular	06-28-2025 12:30PM EDT
221.76	Condition: Regular	06-28-2025 12:15PM EDT
177.12	Condition: Regular	06-28-2025 12:00PM EDT
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173.76	Condition: Regular	06-28-2025 11:15AM EDT
150.24	Condition: Regular	06-28-2025 11:00AM EDT
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75.84	Condition: Regular	06-28-2025 09:00AM EDT
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68.16	Condition: Regular	06-28-2025 08:30AM EDT
38.88	Condition: Regular	06-28-2025 08:15AM EDT
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13.92	Condition: Regular	06-28-2025 07:45AM EDT
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2.4	Condition: Regular	06-28-2025 07:15AM EDT

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33.12	Condition: Regular	06-27-2025 05:00PM EDT
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24	Condition: Regular	06-27-2025 04:30PM EDT
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22.56	Condition: Regular	06-27-2025 04:00PM EDT
25.92	Condition: Regular	06-27-2025 03:45PM EDT
36	Condition: Regular	06-27-2025 03:30PM EDT
35.04	Condition: Regular	06-27-2025 03:15PM EDT
29.28	Condition: Regular	06-27-2025 03:00PM EDT
14.88	Condition: Regular	06-27-2025 02:45PM EDT
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50.88	Condition: Regular	06-27-2025 02:15PM EDT
42.72	Condition: Regular	06-27-2025 02:00PM EDT
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66.24	Condition: Regular	06-27-2025 01:30PM EDT

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21.12	Condition: Regular	06-27-2025 01:00PM EDT
17.76	Condition: Regular	06-27-2025 12:45PM EDT
15.84	Condition: Regular	06-27-2025 12:30PM EDT
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31.68	Condition: Regular	06-27-2025 10:00AM EDT
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148.8	Condition: Regular	06-26-2025 05:30PM EDT
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174.72	Condition: Regular	06-26-2025 05:00PM EDT
185.76	Condition: Regular	06-26-2025 04:45PM EDT
197.28	Condition: Regular	06-26-2025 04:30PM EDT
209.76	Condition: Regular	06-26-2025 04:15PM EDT
219.84	Condition: Regular	06-26-2025 04:00PM EDT
227.52	Condition: Regular	06-26-2025 03:45PM EDT
236.64	Condition: Regular	06-26-2025 03:30PM EDT
243.36	Condition: Regular	06-26-2025 03:15PM EDT
247.68	Condition: Regular	06-26-2025 03:00PM EDT
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224.16	Condition: Regular	06-26-2025 02:30PM EDT
146.88	Condition: Regular	06-26-2025 02:15PM EDT
152.64	Condition: Regular	06-26-2025 02:00PM EDT
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252	Condition: Regular	06-26-2025 01:15PM EDT
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229.92	Condition: Regular	06-26-2025 12:45PM EDT
211.2	Condition: Regular	06-26-2025 12:30PM EDT
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226.56	Condition: Regular	06-26-2025 12:00PM EDT
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239.04	Condition: Regular	06-26-2025 11:30AM EDT
208.8	Condition: Regular	06-26-2025 11:15AM EDT
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2.4	Condition: Regular	06-25-2025 07:30PM EDT
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36.96	Condition: Regular	06-25-2025 07:00PM EDT
80.16	Condition: Regular	06-25-2025 06:45PM EDT
79.2	Condition: Regular	06-25-2025 06:30PM EDT
99.36	Condition: Regular	06-25-2025 06:15PM EDT
46.08	Condition: Regular	06-25-2025 06:00PM EDT
104.64	Condition: Regular	06-25-2025 05:45PM EDT
155.04	Condition: Regular	06-25-2025 05:30PM EDT
115.2	Condition: Regular	06-25-2025 05:15PM EDT
115.2	Condition: Regular	06-25-2025 05:00PM EDT
124.32	Condition: Regular	06-25-2025 04:45PM EDT
31.68	Condition: Regular	06-25-2025 04:30PM EDT
44.64	Condition: Regular	06-25-2025 04:15PM EDT
130.56	Condition: Regular	06-25-2025 04:00PM EDT
106.56	Condition: Regular	06-25-2025 03:45PM EDT
200.16	Condition: Regular	06-25-2025 03:30PM EDT
216	Condition: Regular	06-25-2025 03:15PM EDT
152.64	Condition: Regular	06-25-2025 03:00PM EDT
137.28	Condition: Regular	06-25-2025 02:45PM EDT
203.52	Condition: Regular	06-25-2025 02:30PM EDT
138.72	Condition: Regular	06-25-2025 02:15PM EDT
152.16	Condition: Regular	06-25-2025 02:00PM EDT
197.76	Condition: Regular	06-25-2025 01:45PM EDT
225.6	Condition: Regular	06-25-2025 01:30PM EDT
221.28	Condition: Regular	06-25-2025 01:15PM EDT
228	Condition: Regular	06-25-2025 01:00PM EDT
220.32	Condition: Regular	06-25-2025 12:45PM EDT
238.08	Condition: Regular	06-25-2025 12:30PM EDT
235.68	Condition: Regular	06-25-2025 12:15PM EDT
229.92	Condition: Regular	06-25-2025 12:00PM EDT
225.6	Condition: Regular	06-25-2025 11:45AM EDT
219.84	Condition: Regular	06-25-2025 11:30AM EDT
213.12	Condition: Regular	06-25-2025 11:15AM EDT
206.4	Condition: Regular	06-25-2025 11:00AM EDT
196.32	Condition: Regular	06-25-2025 10:45AM EDT
184.8	Condition: Regular	06-25-2025 10:30AM EDT
172.32	Condition: Regular	06-25-2025 10:15AM EDT
159.84	Condition: Regular	06-25-2025 10:00AM EDT
149.76	Condition: Regular	06-25-2025 09:45AM EDT
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80.16	Condition: Regular	06-25-2025 08:30AM EDT
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77.76	Condition: Regular	06-24-2025 05:30PM EDT
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89.28	Condition: Regular	06-24-2025 05:00PM EDT
88.8	Condition: Regular	06-24-2025 04:45PM EDT
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105.12	Condition: Regular	06-24-2025 04:00PM EDT
110.4	Condition: Regular	06-24-2025 03:45PM EDT
111.36	Condition: Regular	06-24-2025 03:30PM EDT
120.48	Condition: Regular	06-24-2025 03:15PM EDT
113.28	Condition: Regular	06-24-2025 03:00PM EDT
116.64	Condition: Regular	06-24-2025 02:45PM EDT
123.84	Condition: Regular	06-24-2025 02:30PM EDT

133.44	Condition: Regular	06-24-2025 02:15PM EDT
136.8	Condition: Regular	06-24-2025 02:00PM EDT
177.6	Condition: Regular	06-24-2025 01:45PM EDT
238.56	Condition: Regular	06-24-2025 01:30PM EDT
237.6	Condition: Regular	06-24-2025 01:15PM EDT
237.6	Condition: Regular	06-24-2025 01:00PM EDT
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236.64	Condition: Regular	06-24-2025 12:15PM EDT
230.88	Condition: Regular	06-24-2025 12:00PM EDT
225.12	Condition: Regular	06-24-2025 11:45AM EDT
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219.84	Condition: Regular	06-24-2025 11:15AM EDT
212.16	Condition: Regular	06-24-2025 11:00AM EDT
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2.4	Condition: Regular	06-23-2025 07:45PM EDT
10.56	Condition: Regular	06-23-2025 07:30PM EDT
23.04	Condition: Regular	06-23-2025 07:15PM EDT
33.12	Condition: Regular	06-23-2025 07:00PM EDT
43.2	Condition: Regular	06-23-2025 06:45PM EDT
58.08	Condition: Regular	06-23-2025 06:30PM EDT
79.68	Condition: Regular	06-23-2025 06:15PM EDT
100.8	Condition: Regular	06-23-2025 06:00PM EDT
118.56	Condition: Regular	06-23-2025 05:45PM EDT
124.32	Condition: Regular	06-23-2025 05:30PM EDT
126.24	Condition: Regular	06-23-2025 05:15PM EDT
134.88	Condition: Regular	06-23-2025 05:00PM EDT
144	Condition: Regular	06-23-2025 04:45PM EDT
136.8	Condition: Regular	06-23-2025 04:30PM EDT
133.44	Condition: Regular	06-23-2025 04:15PM EDT
174.24	Condition: Regular	06-23-2025 04:00PM EDT
195.36	Condition: Regular	06-23-2025 03:45PM EDT
199.68	Condition: Regular	06-23-2025 03:30PM EDT
174.24	Condition: Regular	06-23-2025 03:15PM EDT
207.84	Condition: Regular	06-23-2025 03:00PM EDT
222.24	Condition: Regular	06-23-2025 02:45PM EDT
237.6	Condition: Regular	06-23-2025 02:30PM EDT
220.32	Condition: Regular	06-23-2025 02:15PM EDT
228.96	Condition: Regular	06-23-2025 02:00PM EDT
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246.72	Condition: Regular	06-23-2025 01:30PM EDT
242.4	Condition: Regular	06-23-2025 01:15PM EDT
239.04	Condition: Regular	06-23-2025 01:00PM EDT
230.4	Condition: Regular	06-23-2025 12:45PM EDT
235.68	Condition: Regular	06-23-2025 12:30PM EDT
232.32	Condition: Regular	06-23-2025 12:15PM EDT
223.2	Condition: Regular	06-23-2025 12:00PM EDT
222.24	Condition: Regular	06-23-2025 11:45AM EDT
225.6	Condition: Regular	06-23-2025 11:30AM EDT
213.12	Condition: Regular	06-23-2025 11:15AM EDT
206.4	Condition: Regular	06-23-2025 11:00AM EDT
60.48	Condition: Regular	06-23-2025 10:45AM EDT
184.8	Condition: Regular	06-23-2025 10:30AM EDT
177.12	Condition: Regular	06-23-2025 10:15AM EDT
161.28	Condition: Regular	06-23-2025 10:00AM EDT
148.8	Condition: Regular	06-23-2025 09:45AM EDT
135.36	Condition: Regular	06-23-2025 09:30AM EDT
120.48	Condition: Regular	06-23-2025 09:15AM EDT
106.08	Condition: Regular	06-23-2025 09:00AM EDT
95.04	Condition: Regular	06-23-2025 08:45AM EDT
79.2	Condition: Regular	06-23-2025 08:30AM EDT
67.2	Condition: Regular	06-23-2025 08:15AM EDT
50.4	Condition: Regular	06-23-2025 08:00AM EDT
36.96	Condition: Regular	06-23-2025 07:45AM EDT
23.52	Condition: Regular	06-23-2025 07:30AM EDT
11.04	Condition: Regular	06-23-2025 07:15AM EDT
3.36	Condition: Regular	06-23-2025 07:00AM EDT
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0	Condition: Regular	06-23-2025 03:15AM EDT
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2.4	Condition: Regular	06-22-2025 08:00PM EDT
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35.04	Condition: Regular	06-22-2025 07:15PM EDT
49.44	Condition: Regular	06-22-2025 07:00PM EDT
68.64	Condition: Regular	06-22-2025 06:45PM EDT
87.84	Condition: Regular	06-22-2025 06:30PM EDT
106.08	Condition: Regular	06-22-2025 06:15PM EDT
125.28	Condition: Regular	06-22-2025 06:00PM EDT
144	Condition: Regular	06-22-2025 05:45PM EDT
166.56	Condition: Regular	06-22-2025 05:30PM EDT
191.04	Condition: Regular	06-22-2025 05:15PM EDT
130.08	Condition: Regular	06-22-2025 05:00PM EDT
100.8	Condition: Regular	06-22-2025 04:45PM EDT
106.56	Condition: Regular	06-22-2025 04:30PM EDT
129.12	Condition: Regular	06-22-2025 04:15PM EDT
152.64	Condition: Regular	06-22-2025 04:00PM EDT
136.8	Condition: Regular	06-22-2025 03:45PM EDT
116.64	Condition: Regular	06-22-2025 03:30PM EDT
107.52	Condition: Regular	06-22-2025 03:15PM EDT
117.6	Condition: Regular	06-22-2025 03:00PM EDT
96.48	Condition: Regular	06-22-2025 02:45PM EDT
90.72	Condition: Regular	06-22-2025 02:30PM EDT
94.08	Condition: Regular	06-22-2025 02:15PM EDT
88.32	Condition: Regular	06-22-2025 02:00PM EDT
61.44	Condition: Regular	06-22-2025 01:45PM EDT
48.96	Condition: Regular	06-22-2025 01:30PM EDT
30.72	Condition: Regular	06-22-2025 01:15PM EDT
22.08	Condition: Regular	06-22-2025 01:00PM EDT
20.64	Condition: Regular	06-22-2025 12:45PM EDT
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2.4	Condition: Regular	06-22-2025 12:15PM EDT
2.4	Condition: Regular	06-22-2025 12:00PM EDT
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4.8	Condition: Regular	06-22-2025 11:30AM EDT
4.8	Condition: Regular	06-22-2025 11:15AM EDT
4.8	Condition: Regular	06-22-2025 11:00AM EDT
4.8	Condition: Regular	06-22-2025 10:45AM EDT
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110.88	Condition: Regular	06-22-2025 09:45AM EDT
135.36	Condition: Regular	06-22-2025 09:30AM EDT
100.8	Condition: Regular	06-22-2025 09:15AM EDT

101.76	Condition: Regular	06-22-2025 09:00AM EDT
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46.56	Condition: Regular	06-22-2025 08:15AM EDT
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29.76	Condition: Regular	06-22-2025 07:30AM EDT
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12.96	Condition: Regular	06-22-2025 07:00AM EDT
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72.96	Condition: Regular	06-21-2025 07:00PM EDT
75.36	Condition: Regular	06-21-2025 06:45PM EDT
75.36	Condition: Regular	06-21-2025 06:30PM EDT
86.4	Condition: Regular	06-21-2025 06:15PM EDT
92.16	Condition: Regular	06-21-2025 06:00PM EDT
106.56	Condition: Regular	06-21-2025 05:45PM EDT
163.2	Condition: Regular	06-21-2025 05:30PM EDT
190.08	Condition: Regular	06-21-2025 05:15PM EDT
148.32	Condition: Regular	06-21-2025 05:00PM EDT
138.24	Condition: Regular	06-21-2025 04:45PM EDT
159.36	Condition: Regular	06-21-2025 04:30PM EDT
174.24	Condition: Regular	06-21-2025 04:15PM EDT
161.28	Condition: Regular	06-21-2025 04:00PM EDT
163.2	Condition: Regular	06-21-2025 03:45PM EDT
214.56	Condition: Regular	06-21-2025 03:30PM EDT

225.6	Condition: Regular	06-21-2025 03:15PM EDT
254.4	Condition: Regular	06-21-2025 03:00PM EDT
260.16	Condition: Regular	06-21-2025 02:45PM EDT
239.04	Condition: Regular	06-21-2025 02:30PM EDT
175.2	Condition: Regular	06-21-2025 02:15PM EDT
273.12	Condition: Regular	06-21-2025 02:00PM EDT
287.52	Condition: Regular	06-21-2025 01:45PM EDT
256.8	Condition: Regular	06-21-2025 01:30PM EDT
259.2	Condition: Regular	06-21-2025 01:15PM EDT
276.48	Condition: Regular	06-21-2025 01:00PM EDT
278.4	Condition: Regular	06-21-2025 12:45PM EDT
269.28	Condition: Regular	06-21-2025 12:30PM EDT
268.32	Condition: Regular	06-21-2025 12:15PM EDT
264.96	Condition: Regular	06-21-2025 12:00PM EDT
258.24	Condition: Regular	06-21-2025 11:45AM EDT
254.88	Condition: Regular	06-21-2025 11:30AM EDT
245.76	Condition: Regular	06-21-2025 11:15AM EDT
239.04	Condition: Regular	06-21-2025 11:00AM EDT
228.96	Condition: Regular	06-21-2025 10:45AM EDT
218.88	Condition: Regular	06-21-2025 10:30AM EDT
209.76	Condition: Regular	06-21-2025 10:15AM EDT
197.28	Condition: Regular	06-21-2025 10:00AM EDT
183.84	Condition: Regular	06-21-2025 09:45AM EDT
171.36	Condition: Regular	06-21-2025 09:30AM EDT
155.52	Condition: Regular	06-21-2025 09:15AM EDT
138.72	Condition: Regular	06-21-2025 09:00AM EDT
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111.84	Condition: Regular	06-21-2025 08:30AM EDT
92.64	Condition: Regular	06-21-2025 08:15AM EDT
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4.8	Condition: Regular	06-20-2025 08:00PM EDT
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66.24	Condition: Regular	06-20-2025 06:30PM EDT
116.16	Condition: Regular	06-20-2025 06:15PM EDT
81.6	Condition: Regular	06-20-2025 06:00PM EDT
135.84	Condition: Regular	06-20-2025 05:45PM EDT
155.04	Condition: Regular	06-20-2025 05:30PM EDT
198.72	Condition: Regular	06-20-2025 05:15PM EDT
165.6	Condition: Regular	06-20-2025 05:00PM EDT
76.8	Condition: Regular	06-20-2025 04:45PM EDT
164.64	Condition: Regular	06-20-2025 04:30PM EDT
197.28	Condition: Regular	06-20-2025 04:15PM EDT
231.84	Condition: Regular	06-20-2025 04:00PM EDT
260.16	Condition: Regular	06-20-2025 03:45PM EDT
216	Condition: Regular	06-20-2025 03:30PM EDT
262.08	Condition: Regular	06-20-2025 03:15PM EDT
201.12	Condition: Regular	06-20-2025 03:00PM EDT
263.04	Condition: Regular	06-20-2025 02:45PM EDT
210.72	Condition: Regular	06-20-2025 02:30PM EDT
238.08	Condition: Regular	06-20-2025 02:15PM EDT
262.08	Condition: Regular	06-20-2025 02:00PM EDT
237.6	Condition: Regular	06-20-2025 01:45PM EDT
232.8	Condition: Regular	06-20-2025 01:30PM EDT
275.52	Condition: Regular	06-20-2025 01:15PM EDT
273.12	Condition: Regular	06-20-2025 01:00PM EDT
270.72	Condition: Regular	06-20-2025 12:45PM EDT
264	Condition: Regular	06-20-2025 12:30PM EDT
269.76	Condition: Regular	06-20-2025 12:15PM EDT
260.64	Condition: Regular	06-20-2025 12:00PM EDT
254.88	Condition: Regular	06-20-2025 11:45AM EDT
248.16	Condition: Regular	06-20-2025 11:30AM EDT
242.4	Condition: Regular	06-20-2025 11:15AM EDT
233.28	Condition: Regular	06-20-2025 11:00AM EDT
224.64	Condition: Regular	06-20-2025 10:45AM EDT
215.52	Condition: Regular	06-20-2025 10:30AM EDT
203.04	Condition: Regular	06-20-2025 10:15AM EDT
189.6	Condition: Regular	06-20-2025 10:00AM EDT
181.92	Condition: Regular	06-20-2025 09:45AM EDT
63.36	Condition: Regular	06-20-2025 09:30AM EDT
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172.32	Condition: Regular	06-19-2025 04:30PM EDT
211.68	Condition: Regular	06-19-2025 04:15PM EDT
237.6	Condition: Regular	06-19-2025 04:00PM EDT
160.32	Condition: Regular	06-19-2025 03:45PM EDT
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254.88	Condition: Regular	06-19-2025 01:00PM EDT
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217.44	Condition: Regular	06-19-2025 12:00PM EDT
222.24	Condition: Regular	06-19-2025 11:45AM EDT
232.32	Condition: Regular	06-19-2025 11:30AM EDT
217.44	Condition: Regular	06-19-2025 11:15AM EDT
215.52	Condition: Regular	06-19-2025 11:00AM EDT
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192.96	Condition: Regular	06-19-2025 10:30AM EDT
182.88	Condition: Regular	06-19-2025 10:15AM EDT

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157.92	Condition: Regular	06-19-2025 09:45AM EDT
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27.84	Condition: Regular	06-18-2025 04:30PM EDT

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239.04	Condition: Regular	06-18-2025 03:15PM EDT
210.24	Condition: Regular	06-18-2025 03:00PM EDT
112.32	Condition: Regular	06-18-2025 02:45PM EDT
200.16	Condition: Regular	06-18-2025 02:30PM EDT
161.76	Condition: Regular	06-18-2025 02:15PM EDT
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181.92	Condition: Regular	06-18-2025 11:30AM EDT
96.48	Condition: Regular	06-18-2025 11:15AM EDT
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229.44	Condition: Regular	06-17-2025 03:15PM EDT
120.48	Condition: Regular	06-17-2025 03:00PM EDT
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0	Condition: Regular	06-16-2025 04:30AM EDT
0	Condition: Regular	06-16-2025 04:15AM EDT
0	Condition: Regular	06-16-2025 04:00AM EDT
0	Condition: Regular	06-16-2025 03:45AM EDT
0	Condition: Regular	06-16-2025 03:30AM EDT
0	Condition: Regular	06-16-2025 03:15AM EDT
0	Condition: Regular	06-16-2025 03:00AM EDT
0	Condition: Regular	06-16-2025 02:45AM EDT
0	Condition: Regular	06-16-2025 02:30AM EDT
0	Condition: Regular	06-16-2025 02:15AM EDT
0	Condition: Regular	06-16-2025 02:00AM EDT
0	Condition: Regular	06-16-2025 01:45AM EDT
0	Condition: Regular	06-16-2025 01:30AM EDT
0	Condition: Regular	06-16-2025 01:15AM EDT
0	Condition: Regular	06-16-2025 01:00AM EDT
0	Condition: Regular	06-16-2025 12:45AM EDT
0	Condition: Regular	06-16-2025 12:30AM EDT
0	Condition: Regular	06-16-2025 12:15AM EDT
173,832		

2877	0	Condition: Regular	06-16-2025 01:00AM EDT	0
2873	0	Condition: Regular	06-16-2025 02:00AM EDT	0
2869	0	Condition: Regular	06-16-2025 03:00AM EDT	0
2865	0	Condition: Regular	06-16-2025 04:00AM EDT	0
2861	0	Condition: Regular	06-16-2025 05:00AM EDT	0
2857	0	Condition: Regular	06-16-2025 06:00AM EDT	0
2853	0	Condition: Regular	06-16-2025 07:00AM EDT	0
2849	0	Condition: Regular	06-16-2025 08:00AM EDT	0
2845	4.32	Condition: Regular	06-16-2025 09:00AM EDT	4.32
2841	4.32	Condition: Regular	06-16-2025 10:00AM EDT	17.76
2837	16.8	Condition: Regular	06-16-2025 11:00AM EDT	31.68
2833	17.76	Condition: Regular	06-16-2025 12:00PM EDT	62.88
2829	34.56	Condition: Regular	06-16-2025 01:00PM EDT	120.96
2825	47.04	Condition: Regular	06-16-2025 02:00PM EDT	177.12
2821	10.08	Condition: Regular	06-16-2025 03:00PM EDT	107.52
2817	13.44	Condition: Regular	06-16-2025 04:00PM EDT	47.04
2813	7.68	Condition: Regular	06-16-2025 05:00PM EDT	33.12
2809	5.76	Condition: Regular	06-16-2025 06:00PM EDT	26.4
2805	2.4	Condition: Regular	06-16-2025 07:00PM EDT	7.2
2801	0	Condition: Regular	06-16-2025 08:00PM EDT	0
2797	0	Condition: Regular	06-16-2025 09:00PM EDT	0
2793	0	Condition: Regular	06-16-2025 10:00PM EDT	0
2789	0	Condition: Regular	06-16-2025 11:00PM EDT	0
2785	0	Condition: Regular	06-17-2025 12:00AM EDT	0
2781	0	Condition: Regular	06-17-2025 01:00AM EDT	0
2777	0	Condition: Regular	06-17-2025 02:00AM EDT	0
2773	0	Condition: Regular	06-17-2025 03:00AM EDT	0
2769	0	Condition: Regular	06-17-2025 04:00AM EDT	0
2765	0	Condition: Regular	06-17-2025 05:00AM EDT	0
2761	0	Condition: Regular	06-17-2025 06:00AM EDT	0
2757	0	Condition: Regular	06-17-2025 07:00AM EDT	0
2753	0.96	Condition: Regular	06-17-2025 08:00AM EDT	3.36
2749	3.36	Condition: Regular	06-17-2025 09:00AM EDT	14.4
2745	68.64	Condition: Regular	06-17-2025 10:00AM EDT	203.52
2741	99.84	Condition: Regular	06-17-2025 11:00AM EDT	279.84
2737	157.92	Condition: Regular	06-17-2025 12:00PM EDT	566.4
2733	91.68	Condition: Regular	06-17-2025 01:00PM EDT	374.88
2729	130.08	Condition: Regular	06-17-2025 02:00PM EDT	499.68
2725	120.48	Condition: Regular	06-17-2025 03:00PM EDT	501.12
2721	33.6	Condition: Regular	06-17-2025 04:00PM EDT	561.6
2717	24.96	Condition: Regular	06-17-2025 05:00PM EDT	113.76
2713	16.32	Condition: Regular	06-17-2025 06:00PM EDT	80.64
2709	2.4	Condition: Regular	06-17-2025 07:00PM EDT	55.68
2705	0	Condition: Regular	06-17-2025 08:00PM EDT	0
2701	0	Condition: Regular	06-17-2025 09:00PM EDT	0
2697	0	Condition: Regular	06-17-2025 10:00PM EDT	0
2693	0	Condition: Regular	06-17-2025 11:00PM EDT	0

2689	0	Condition: Regular	06-18-2025 12:00AM EDT	0
2685	0	Condition: Regular	06-18-2025 01:00AM EDT	0
2681	0	Condition: Regular	06-18-2025 02:00AM EDT	0
2677	0	Condition: Regular	06-18-2025 03:00AM EDT	0
2673	0	Condition: Regular	06-18-2025 04:00AM EDT	0
2669	0	Condition: Regular	06-18-2025 05:00AM EDT	0
2665	0	Condition: Regular	06-18-2025 06:00AM EDT	0
2661	3.36	Condition: Regular	06-18-2025 07:00AM EDT	3.36
2657	0	Condition: Regular	06-18-2025 08:00AM EDT	3.36
2653	43.68	Condition: Regular	06-18-2025 09:00AM EDT	89.76
2649	72	Condition: Regular	06-18-2025 10:00AM EDT	247.2
2645	103.68	Condition: Regular	06-18-2025 11:00AM EDT	339.84
2641	102.24	Condition: Regular	06-18-2025 12:00PM EDT	485.28
2637	217.92	Condition: Regular	06-18-2025 01:00PM EDT	824.16
2633	176.16	Condition: Regular	06-18-2025 02:00PM EDT	832.32
2629	210.24	Condition: Regular	06-18-2025 03:00PM EDT	684.48
2625	85.44	Condition: Regular	06-18-2025 04:00PM EDT	597.12
2621	0.96	Condition: Regular	06-18-2025 05:00PM EDT	96.96
2617	11.52	Condition: Regular	06-18-2025 06:00PM EDT	31.68
2613	29.76	Condition: Regular	06-18-2025 07:00PM EDT	66.72
2609	4.8	Condition: Regular	06-18-2025 08:00PM EDT	103.68
2605	0	Condition: Regular	06-18-2025 09:00PM EDT	0
2601	0	Condition: Regular	06-18-2025 10:00PM EDT	0
2597	0	Condition: Regular	06-18-2025 11:00PM EDT	0
2593	0	Condition: Regular	06-19-2025 12:00AM EDT	0
2589	0	Condition: Regular	06-19-2025 01:00AM EDT	0
2585	0	Condition: Regular	06-19-2025 02:00AM EDT	0
2581	0	Condition: Regular	06-19-2025 03:00AM EDT	0
2577	0	Condition: Regular	06-19-2025 04:00AM EDT	0
2573	0	Condition: Regular	06-19-2025 05:00AM EDT	0
2569	0	Condition: Regular	06-19-2025 06:00AM EDT	0
2565	4.32	Condition: Regular	06-19-2025 07:00AM EDT	9.12
2561	57.12	Condition: Regular	06-19-2025 08:00AM EDT	139.68
2557	115.2	Condition: Regular	06-19-2025 09:00AM EDT	374.4
2553	170.4	Condition: Regular	06-19-2025 10:00AM EDT	607.2
2549	215.52	Condition: Regular	06-19-2025 11:00AM EDT	794.4
2545	217.44	Condition: Regular	06-19-2025 12:00PM EDT	889.44
2541	254.88	Condition: Regular	06-19-2025 01:00PM EDT	1004.64
2537	235.2	Condition: Regular	06-19-2025 02:00PM EDT	1011.84
2533	167.04	Condition: Regular	06-19-2025 03:00PM EDT	858.72
2529	237.6	Condition: Regular	06-19-2025 04:00PM EDT	424.32
2525	168.96	Condition: Regular	06-19-2025 05:00PM EDT	722.88
2521	0	Condition: Regular	06-19-2025 06:00PM EDT	108.48
2517	0	Condition: Regular	06-19-2025 07:00PM EDT	0
2513	0	Condition: Regular	06-19-2025 08:00PM EDT	0
2509	0	Condition: Regular	06-19-2025 09:00PM EDT	0
2505	0	Condition: Regular	06-19-2025 10:00PM EDT	0

2501	0	Condition: Regular	06-19-2025 11:00PM EDT	0
2497	0	Condition: Regular	06-20-2025 12:00AM EDT	0
2493	0	Condition: Regular	06-20-2025 01:00AM EDT	0
2489	0	Condition: Regular	06-20-2025 02:00AM EDT	0
2485	0	Condition: Regular	06-20-2025 03:00AM EDT	0
2481	0	Condition: Regular	06-20-2025 04:00AM EDT	0
2477	0	Condition: Regular	06-20-2025 05:00AM EDT	0
2473	0	Condition: Regular	06-20-2025 06:00AM EDT	0
2469	0	Condition: Regular	06-20-2025 07:00AM EDT	0
2465	0	Condition: Regular	06-20-2025 08:00AM EDT	0
2461	0	Condition: Regular	06-20-2025 09:00AM EDT	0
2457	189.6	Condition: Regular	06-20-2025 10:00AM EDT	434.88
2453	233.28	Condition: Regular	06-20-2025 11:00AM EDT	876.48
2449	260.64	Condition: Regular	06-20-2025 12:00PM EDT	1006.08
2445	273.12	Condition: Regular	06-20-2025 01:00PM EDT	1077.6
2441	262.08	Condition: Regular	06-20-2025 02:00PM EDT	1008
2437	201.12	Condition: Regular	06-20-2025 03:00PM EDT	912.96
2433	231.84	Condition: Regular	06-20-2025 04:00PM EDT	970.08
2429	165.6	Condition: Regular	06-20-2025 05:00PM EDT	604.32
2425	81.6	Condition: Regular	06-20-2025 06:00PM EDT	571.2
2421	33.12	Condition: Regular	06-20-2025 07:00PM EDT	266.88
2417	4.8	Condition: Regular	06-20-2025 08:00PM EDT	94.08
2413	0	Condition: Regular	06-20-2025 09:00PM EDT	0
2409	0	Condition: Regular	06-20-2025 10:00PM EDT	0
2405	0	Condition: Regular	06-20-2025 11:00PM EDT	0
2401	0	Condition: Regular	06-21-2025 12:00AM EDT	0
2397	0	Condition: Regular	06-21-2025 01:00AM EDT	0
2393	0	Condition: Regular	06-21-2025 02:00AM EDT	0
2389	0	Condition: Regular	06-21-2025 03:00AM EDT	0
2385	0	Condition: Regular	06-21-2025 04:00AM EDT	0
2381	0	Condition: Regular	06-21-2025 05:00AM EDT	0
2377	0	Condition: Regular	06-21-2025 06:00AM EDT	0
2373	10.56	Condition: Regular	06-21-2025 07:00AM EDT	10.56
2369	43.2	Condition: Regular	06-21-2025 08:00AM EDT	130.56
2365	138.72	Condition: Regular	06-21-2025 09:00AM EDT	471.84
2361	197.28	Condition: Regular	06-21-2025 10:00AM EDT	708
2357	239.04	Condition: Regular	06-21-2025 11:00AM EDT	896.64
2353	264.96	Condition: Regular	06-21-2025 12:00PM EDT	1023.84
2349	276.48	Condition: Regular	06-21-2025 01:00PM EDT	1092.48
2345	273.12	Condition: Regular	06-21-2025 02:00PM EDT	1076.64
2341	254.4	Condition: Regular	06-21-2025 03:00PM EDT	928.8
2337	161.28	Condition: Regular	06-21-2025 04:00PM EDT	764.64
2333	148.32	Condition: Regular	06-21-2025 05:00PM EDT	620.16
2329	92.16	Condition: Regular	06-21-2025 06:00PM EDT	552
2325	72.96	Condition: Regular	06-21-2025 07:00PM EDT	310.08
2321	0	Condition: Regular	06-21-2025 08:00PM EDT	75.84
2317	0	Condition: Regular	06-21-2025 09:00PM EDT	0

2313	0	Condition: Regular	06-21-2025 10:00PM EDT	0
2309	0	Condition: Regular	06-21-2025 11:00PM EDT	0
2305	0	Condition: Regular	06-22-2025 12:00AM EDT	0
2301	0	Condition: Regular	06-22-2025 01:00AM EDT	0
2297	0	Condition: Regular	06-22-2025 02:00AM EDT	0
2293	0	Condition: Regular	06-22-2025 03:00AM EDT	0
2289	0	Condition: Regular	06-22-2025 04:00AM EDT	0
2285	0	Condition: Regular	06-22-2025 05:00AM EDT	0
2281	0	Condition: Regular	06-22-2025 06:00AM EDT	0
2277	12.96	Condition: Regular	06-22-2025 07:00AM EDT	20.16
2273	45.6	Condition: Regular	06-22-2025 08:00AM EDT	134.88
2269	101.76	Condition: Regular	06-22-2025 09:00AM EDT	270.72
2265	80.64	Condition: Regular	06-22-2025 10:00AM EDT	427.68
2261	4.8	Condition: Regular	06-22-2025 11:00AM EDT	65.76
2257	2.4	Condition: Regular	06-22-2025 12:00PM EDT	16.8
2253	22.08	Condition: Regular	06-22-2025 01:00PM EDT	47.52
2249	88.32	Condition: Regular	06-22-2025 02:00PM EDT	229.44
2245	117.6	Condition: Regular	06-22-2025 03:00PM EDT	398.88
2241	152.64	Condition: Regular	06-22-2025 04:00PM EDT	513.6
2237	130.08	Condition: Regular	06-22-2025 05:00PM EDT	466.56
2233	125.28	Condition: Regular	06-22-2025 06:00PM EDT	626.88
2229	49.44	Condition: Regular	06-22-2025 07:00PM EDT	312
2225	2.4	Condition: Regular	06-22-2025 08:00PM EDT	68.16
2221	0	Condition: Regular	06-22-2025 09:00PM EDT	2.4
2217	0	Condition: Regular	06-22-2025 10:00PM EDT	0
2213	0	Condition: Regular	06-22-2025 11:00PM EDT	0
2209	0	Condition: Regular	06-23-2025 12:00AM EDT	0
2205	0	Condition: Regular	06-23-2025 01:00AM EDT	0
2201	0	Condition: Regular	06-23-2025 02:00AM EDT	0
2197	0	Condition: Regular	06-23-2025 03:00AM EDT	0
2193	0	Condition: Regular	06-23-2025 04:00AM EDT	0
2189	0	Condition: Regular	06-23-2025 05:00AM EDT	0
2185	0	Condition: Regular	06-23-2025 06:00AM EDT	0
2181	3.36	Condition: Regular	06-23-2025 07:00AM EDT	5.76
2177	50.4	Condition: Regular	06-23-2025 08:00AM EDT	121.92
2173	106.08	Condition: Regular	06-23-2025 09:00AM EDT	347.52
2169	161.28	Condition: Regular	06-23-2025 10:00AM EDT	565.92
2165	206.4	Condition: Regular	06-23-2025 11:00AM EDT	628.8
2161	223.2	Condition: Regular	06-23-2025 12:00PM EDT	884.16
2157	239.04	Condition: Regular	06-23-2025 01:00PM EDT	937.44
2153	228.96	Condition: Regular	06-23-2025 02:00PM EDT	958.08
2149	207.84	Condition: Regular	06-23-2025 03:00PM EDT	888
2145	174.24	Condition: Regular	06-23-2025 04:00PM EDT	743.52
2141	134.88	Condition: Regular	06-23-2025 05:00PM EDT	549.12
2137	100.8	Condition: Regular	06-23-2025 06:00PM EDT	469.92
2133	33.12	Condition: Regular	06-23-2025 07:00PM EDT	214.08
2129	0	Condition: Regular	06-23-2025 08:00PM EDT	36

2125	0	Condition: Regular	06-23-2025 09:00PM EDT	0
2121	0	Condition: Regular	06-23-2025 10:00PM EDT	0
2117	0	Condition: Regular	06-23-2025 11:00PM EDT	0
2113	0	Condition: Regular	06-24-2025 12:00AM EDT	0
2109	0	Condition: Regular	06-24-2025 01:00AM EDT	0
2105	0	Condition: Regular	06-24-2025 02:00AM EDT	0
2101	0	Condition: Regular	06-24-2025 03:00AM EDT	0
2097	0	Condition: Regular	06-24-2025 04:00AM EDT	0
2093	0	Condition: Regular	06-24-2025 05:00AM EDT	0
2089	0	Condition: Regular	06-24-2025 06:00AM EDT	0
2085	0.96	Condition: Regular	06-24-2025 07:00AM EDT	0.96
2081	52.32	Condition: Regular	06-24-2025 08:00AM EDT	116.16
2077	112.8	Condition: Regular	06-24-2025 09:00AM EDT	357.6
2073	170.4	Condition: Regular	06-24-2025 10:00AM EDT	601.44
2069	212.16	Condition: Regular	06-24-2025 11:00AM EDT	785.28
2065	230.88	Condition: Regular	06-24-2025 12:00PM EDT	899.04
2061	237.6	Condition: Regular	06-24-2025 01:00PM EDT	957.6
2057	136.8	Condition: Regular	06-24-2025 02:00PM EDT	790.56
2053	113.28	Condition: Regular	06-24-2025 03:00PM EDT	487.2
2049	105.12	Condition: Regular	06-24-2025 04:00PM EDT	447.36
2045	89.28	Condition: Regular	06-24-2025 05:00PM EDT	376.32
2041	62.88	Condition: Regular	06-24-2025 06:00PM EDT	298.08
2037	21.12	Condition: Regular	06-24-2025 07:00PM EDT	148.32
2033	0	Condition: Regular	06-24-2025 08:00PM EDT	13.44
2029	0	Condition: Regular	06-24-2025 09:00PM EDT	0
2025	0	Condition: Regular	06-24-2025 10:00PM EDT	0
2021	0	Condition: Regular	06-24-2025 11:00PM EDT	0
2017	0	Condition: Regular	06-25-2025 12:00AM EDT	0
2013	0	Condition: Regular	06-25-2025 01:00AM EDT	0
2009	0	Condition: Regular	06-25-2025 02:00AM EDT	0
2005	0	Condition: Regular	06-25-2025 03:00AM EDT	0
2001	0	Condition: Regular	06-25-2025 04:00AM EDT	0
1997	0	Condition: Regular	06-25-2025 05:00AM EDT	0
1993	0	Condition: Regular	06-25-2025 06:00AM EDT	0
1989	0	Condition: Regular	06-25-2025 07:00AM EDT	0
1985	49.92	Condition: Regular	06-25-2025 08:00AM EDT	105.6
1981	117.6	Condition: Regular	06-25-2025 09:00AM EDT	363.84
1977	159.84	Condition: Regular	06-25-2025 10:00AM EDT	585.12
1973	206.4	Condition: Regular	06-25-2025 11:00AM EDT	759.84
1969	229.92	Condition: Regular	06-25-2025 12:00PM EDT	888.48
1965	228	Condition: Regular	06-25-2025 01:00PM EDT	922.08
1961	152.16	Condition: Regular	06-25-2025 02:00PM EDT	796.8
1957	152.64	Condition: Regular	06-25-2025 03:00PM EDT	632.16
1953	130.56	Condition: Regular	06-25-2025 04:00PM EDT	653.28
1949	115.2	Condition: Regular	06-25-2025 05:00PM EDT	315.84
1945	46.08	Condition: Regular	06-25-2025 06:00PM EDT	420.96
1941	36.96	Condition: Regular	06-25-2025 07:00PM EDT	295.68

1937	0	Condition: Regular	06-25-2025 08:00PM EDT	9.12
1933	0	Condition: Regular	06-25-2025 09:00PM EDT	0
1929	0	Condition: Regular	06-25-2025 10:00PM EDT	0
1925	0	Condition: Regular	06-25-2025 11:00PM EDT	0
1921	0	Condition: Regular	06-26-2025 12:00AM EDT	0
1917	0	Condition: Regular	06-26-2025 01:00AM EDT	0
1913	0	Condition: Regular	06-26-2025 02:00AM EDT	0
1909	0	Condition: Regular	06-26-2025 03:00AM EDT	0
1905	0	Condition: Regular	06-26-2025 04:00AM EDT	0
1901	0	Condition: Regular	06-26-2025 05:00AM EDT	0
1897	0	Condition: Regular	06-26-2025 06:00AM EDT	0
1893	1.92	Condition: Regular	06-26-2025 07:00AM EDT	1.92
1889	48.96	Condition: Regular	06-26-2025 08:00AM EDT	108.48
1885	110.88	Condition: Regular	06-26-2025 09:00AM EDT	352.32
1881	160.8	Condition: Regular	06-26-2025 10:00AM EDT	546.72
1877	199.68	Condition: Regular	06-26-2025 11:00AM EDT	707.04
1873	226.56	Condition: Regular	06-26-2025 12:00PM EDT	844.32
1869	223.2	Condition: Regular	06-26-2025 01:00PM EDT	919.2
1865	152.64	Condition: Regular	06-26-2025 02:00PM EDT	842.88
1861	247.68	Condition: Regular	06-26-2025 03:00PM EDT	871.68
1857	219.84	Condition: Regular	06-26-2025 04:00PM EDT	927.36
1853	174.72	Condition: Regular	06-26-2025 05:00PM EDT	767.52
1849	115.68	Condition: Regular	06-26-2025 06:00PM EDT	557.76
1845	0	Condition: Regular	06-26-2025 07:00PM EDT	127.68
1841	0	Condition: Regular	06-26-2025 08:00PM EDT	0
1837	0	Condition: Regular	06-26-2025 09:00PM EDT	0
1833	0	Condition: Regular	06-26-2025 10:00PM EDT	0
1829	0	Condition: Regular	06-26-2025 11:00PM EDT	0
1825	0	Condition: Regular	06-27-2025 12:00AM EDT	0
1821	0	Condition: Regular	06-27-2025 01:00AM EDT	0
1817	0	Condition: Regular	06-27-2025 02:00AM EDT	0
1813	0	Condition: Regular	06-27-2025 03:00AM EDT	0
1809	0	Condition: Regular	06-27-2025 04:00AM EDT	0
1805	0	Condition: Regular	06-27-2025 05:00AM EDT	0
1801	0	Condition: Regular	06-27-2025 06:00AM EDT	0
1797	0	Condition: Regular	06-27-2025 07:00AM EDT	0
1793	0	Condition: Regular	06-27-2025 08:00AM EDT	0
1789	4.32	Condition: Regular	06-27-2025 09:00AM EDT	4.32
1785	31.68	Condition: Regular	06-27-2025 10:00AM EDT	64.32
1781	36.96	Condition: Regular	06-27-2025 11:00AM EDT	156.48
1777	4.32	Condition: Regular	06-27-2025 12:00PM EDT	55.2
1773	21.12	Condition: Regular	06-27-2025 01:00PM EDT	68.16
1769	42.72	Condition: Regular	06-27-2025 02:00PM EDT	188.64
1765	29.28	Condition: Regular	06-27-2025 03:00PM EDT	116.64
1761	22.56	Condition: Regular	06-27-2025 04:00PM EDT	119.52
1757	33.12	Condition: Regular	06-27-2025 05:00PM EDT	135.36
1753	7.2	Condition: Regular	06-27-2025 06:00PM EDT	72.48

1749	0	Condition: Regular	06-27-2025 07:00PM EDT	7.2
1745	0	Condition: Regular	06-27-2025 08:00PM EDT	0
1741	0	Condition: Regular	06-27-2025 09:00PM EDT	0
1737	0	Condition: Regular	06-27-2025 10:00PM EDT	0
1733	0	Condition: Regular	06-27-2025 11:00PM EDT	0
1729	0	Condition: Regular	06-28-2025 12:00AM EDT	0
1725	0	Condition: Regular	06-28-2025 01:00AM EDT	0
1721	0	Condition: Regular	06-28-2025 02:00AM EDT	0
1717	0	Condition: Regular	06-28-2025 03:00AM EDT	0
1713	0	Condition: Regular	06-28-2025 04:00AM EDT	0
1709	0	Condition: Regular	06-28-2025 05:00AM EDT	0
1705	0	Condition: Regular	06-28-2025 06:00AM EDT	0
1701	0	Condition: Regular	06-28-2025 07:00AM EDT	0
1697	45.6	Condition: Regular	06-28-2025 08:00AM EDT	69.12
1693	75.84	Condition: Regular	06-28-2025 09:00AM EDT	246.24
1689	88.32	Condition: Regular	06-28-2025 10:00AM EDT	281.28
1685	150.24	Condition: Regular	06-28-2025 11:00AM EDT	617.76
1681	177.12	Condition: Regular	06-28-2025 12:00PM EDT	753.6
1677	260.16	Condition: Regular	06-28-2025 01:00PM EDT	1020.96
1673	266.88	Condition: Regular	06-28-2025 02:00PM EDT	995.04
1669	264	Condition: Regular	06-28-2025 03:00PM EDT	1097.76
1665	222.24	Condition: Regular	06-28-2025 04:00PM EDT	944.16
1661	184.32	Condition: Regular	06-28-2025 05:00PM EDT	782.88
1657	119.04	Condition: Regular	06-28-2025 06:00PM EDT	581.28
1653	28.8	Condition: Regular	06-28-2025 07:00PM EDT	295.2
1649	0	Condition: Regular	06-28-2025 08:00PM EDT	0
1645	0	Condition: Regular	06-28-2025 09:00PM EDT	0
1641	0	Condition: Regular	06-28-2025 10:00PM EDT	0
1637	0	Condition: Regular	06-28-2025 11:00PM EDT	0
1633	0	Condition: Regular	06-29-2025 12:00AM EDT	0
1629	0	Condition: Regular	06-29-2025 01:00AM EDT	0
1625	0	Condition: Regular	06-29-2025 02:00AM EDT	0
1621	0	Condition: Regular	06-29-2025 03:00AM EDT	0
1617	0	Condition: Regular	06-29-2025 04:00AM EDT	0
1613	0	Condition: Regular	06-29-2025 05:00AM EDT	0
1609	0	Condition: Regular	06-29-2025 06:00AM EDT	0
1605	13.92	Condition: Regular	06-29-2025 07:00AM EDT	26.88
1601	64.32	Condition: Regular	06-29-2025 08:00AM EDT	181.44
1597	130.56	Condition: Regular	06-29-2025 09:00AM EDT	424.8
1593	194.88	Condition: Regular	06-29-2025 10:00AM EDT	674.4
1589	181.44	Condition: Regular	06-29-2025 11:00AM EDT	870.72
1585	277.92	Condition: Regular	06-29-2025 12:00PM EDT	882.72
1581	291.36	Condition: Regular	06-29-2025 01:00PM EDT	1034.88
1577	102.72	Condition: Regular	06-29-2025 02:00PM EDT	767.52
1573	200.64	Condition: Regular	06-29-2025 03:00PM EDT	759.84
1569	238.08	Condition: Regular	06-29-2025 04:00PM EDT	821.28
1565	188.64	Condition: Regular	06-29-2025 05:00PM EDT	826.56

1561	122.88	Condition: Regular	06-29-2025 06:00PM EDT	570.72
1557	56.16	Condition: Regular	06-29-2025 07:00PM EDT	322.56
1553	0	Condition: Regular	06-29-2025 08:00PM EDT	66.24
1549	0	Condition: Regular	06-29-2025 09:00PM EDT	0
1545	0	Condition: Regular	06-29-2025 10:00PM EDT	0
1541	0	Condition: Regular	06-29-2025 11:00PM EDT	0
1537	0	Condition: Regular	06-30-2025 12:00AM EDT	0
1533	0	Condition: Regular	06-30-2025 01:00AM EDT	0
1529	0	Condition: Regular	06-30-2025 02:00AM EDT	0
1525	0	Condition: Regular	06-30-2025 03:00AM EDT	0
1521	0	Condition: Regular	06-30-2025 04:00AM EDT	0
1517	0	Condition: Regular	06-30-2025 05:00AM EDT	0
1513	0	Condition: Regular	06-30-2025 06:00AM EDT	0
1509	3.36	Condition: Regular	06-30-2025 07:00AM EDT	9.12
1505	57.12	Condition: Regular	06-30-2025 08:00AM EDT	124.32
1501	84	Condition: Regular	06-30-2025 09:00AM EDT	348.48
1497	162.72	Condition: Regular	06-30-2025 10:00AM EDT	559.68
1493	173.76	Condition: Regular	06-30-2025 11:00AM EDT	682.56
1489	224.64	Condition: Regular	06-30-2025 12:00PM EDT	837.6
1485	195.36	Condition: Regular	06-30-2025 01:00PM EDT	825.12
1481	192.48	Condition: Regular	06-30-2025 02:00PM EDT	913.44
1477	36.96	Condition: Regular	06-30-2025 03:00PM EDT	253.44
1473	0.96	Condition: Regular	06-30-2025 04:00PM EDT	0.96
1469	0	Condition: Regular	06-30-2025 05:00PM EDT	40.32
1465	3.36	Condition: Regular	06-30-2025 06:00PM EDT	3.36
1461	30.72	Condition: Regular	06-30-2025 07:00PM EDT	230.88
1457	0	Condition: Regular	06-30-2025 08:00PM EDT	9.12
1453	0	Condition: Regular	06-30-2025 09:00PM EDT	0
1449	0	Condition: Regular	06-30-2025 10:00PM EDT	0
1445	0	Condition: Regular	06-30-2025 11:00PM EDT	0
1441	0	Condition: Regular	07-01-2025 12:00AM EDT	0
1437	0	Condition: Regular	07-01-2025 01:00AM EDT	0
1433	0	Condition: Regular	07-01-2025 02:00AM EDT	0
1429	0	Condition: Regular	07-01-2025 03:00AM EDT	0
1425	0	Condition: Regular	07-01-2025 04:00AM EDT	0
1421	0	Condition: Regular	07-01-2025 05:00AM EDT	0
1417	0	Condition: Regular	07-01-2025 06:00AM EDT	0
1413	0	Condition: Regular	07-01-2025 07:00AM EDT	0
1409	86.4	Condition: Regular	07-01-2025 08:00AM EDT	165.6
1405	83.04	Condition: Regular	07-01-2025 09:00AM EDT	276.96
1401	175.2	Condition: Regular	07-01-2025 10:00AM EDT	523.68
1397	145.92	Condition: Regular	07-01-2025 11:00AM EDT	704.64
1393	161.76	Condition: Regular	07-01-2025 12:00PM EDT	756.48
1389	216.48	Condition: Regular	07-01-2025 01:00PM EDT	666.72
1385	246.24	Condition: Regular	07-01-2025 02:00PM EDT	464.16
1381	0	Condition: Regular	07-01-2025 03:00PM EDT	332.64
1377	4.32	Condition: Regular	07-01-2025 04:00PM EDT	4.32

1373	0.96	Condition: Regular	07-01-2025 05:00PM EDT	16.32
1369	0	Condition: Regular	07-01-2025 06:00PM EDT	0
1365	0	Condition: Regular	07-01-2025 07:00PM EDT	0
1361	0	Condition: Regular	07-01-2025 08:00PM EDT	0
1357	0	Condition: Regular	07-01-2025 09:00PM EDT	0
1353	0	Condition: Regular	07-01-2025 10:00PM EDT	0
1349	0	Condition: Regular	07-01-2025 11:00PM EDT	0
1345	0	Condition: Regular	07-02-2025 12:00AM EDT	0
1341	0	Condition: Regular	07-02-2025 01:00AM EDT	0
1337	0	Condition: Regular	07-02-2025 02:00AM EDT	0
1333	0	Condition: Regular	07-02-2025 03:00AM EDT	0
1329	0	Condition: Regular	07-02-2025 04:00AM EDT	0
1325	0	Condition: Regular	07-02-2025 05:00AM EDT	0
1321	0	Condition: Regular	07-02-2025 06:00AM EDT	0
1317	0	Condition: Regular	07-02-2025 07:00AM EDT	0
1313	0	Condition: Regular	07-02-2025 08:00AM EDT	0
1309	8.64	Condition: Regular	07-02-2025 09:00AM EDT	14.88
1305	92.16	Condition: Regular	07-02-2025 10:00AM EDT	210.24
1301	84	Condition: Regular	07-02-2025 11:00AM EDT	256.32
1297	134.88	Condition: Regular	07-02-2025 12:00PM EDT	480.48
1293	152.64	Condition: Regular	07-02-2025 01:00PM EDT	544.32
1289	219.36	Condition: Regular	07-02-2025 02:00PM EDT	828.96
1285	219.36	Condition: Regular	07-02-2025 03:00PM EDT	794.88
1281	211.68	Condition: Regular	07-02-2025 04:00PM EDT	836.64
1277	189.6	Condition: Regular	07-02-2025 05:00PM EDT	844.8
1273	121.44	Condition: Regular	07-02-2025 06:00PM EDT	567.36
1269	58.56	Condition: Regular	07-02-2025 07:00PM EDT	333.12
1265	2.4	Condition: Regular	07-02-2025 08:00PM EDT	79.2
1261	0	Condition: Regular	07-02-2025 09:00PM EDT	0
1257	0	Condition: Regular	07-02-2025 10:00PM EDT	0
1253	0	Condition: Regular	07-02-2025 11:00PM EDT	0
1249	0	Condition: Regular	07-03-2025 12:00AM EDT	0
1245	0	Condition: Regular	07-03-2025 01:00AM EDT	0
1241	0	Condition: Regular	07-03-2025 02:00AM EDT	0
1237	0	Condition: Regular	07-03-2025 03:00AM EDT	0
1233	0	Condition: Regular	07-03-2025 04:00AM EDT	0
1229	0	Condition: Regular	07-03-2025 05:00AM EDT	0
1225	0	Condition: Regular	07-03-2025 06:00AM EDT	0
1221	1.92	Condition: Regular	07-03-2025 07:00AM EDT	1.92
1217	48.96	Condition: Regular	07-03-2025 08:00AM EDT	120.96
1213	117.6	Condition: Regular	07-03-2025 09:00AM EDT	366.24
1209	173.76	Condition: Regular	07-03-2025 10:00AM EDT	618.72
1205	215.52	Condition: Regular	07-03-2025 11:00AM EDT	729.6
1201	245.76	Condition: Regular	07-03-2025 12:00PM EDT	940.8
1197	258.24	Condition: Regular	07-03-2025 01:00PM EDT	1025.76
1193	241.92	Condition: Regular	07-03-2025 02:00PM EDT	981.12
1189	236.64	Condition: Regular	07-03-2025 03:00PM EDT	957.12

1185	204	Condition: Regular	07-03-2025 04:00PM EDT	868.8
1181	174.24	Condition: Regular	07-03-2025 05:00PM EDT	726.72
1177	116.64	Condition: Regular	07-03-2025 06:00PM EDT	604.32
1173	38.88	Condition: Regular	07-03-2025 07:00PM EDT	302.4
1169	0	Condition: Regular	07-03-2025 08:00PM EDT	13.92
1165	0	Condition: Regular	07-03-2025 09:00PM EDT	0
1161	0	Condition: Regular	07-03-2025 10:00PM EDT	0
1157	0	Condition: Regular	07-03-2025 11:00PM EDT	0
1153	0	Condition: Regular	07-04-2025 12:00AM EDT	0
1149	0	Condition: Regular	07-04-2025 01:00AM EDT	0
1145	0	Condition: Regular	07-04-2025 02:00AM EDT	0
1141	0	Condition: Regular	07-04-2025 03:00AM EDT	0
1137	0	Condition: Regular	07-04-2025 04:00AM EDT	0
1133	0	Condition: Regular	07-04-2025 05:00AM EDT	0
1129	0	Condition: Regular	07-04-2025 06:00AM EDT	0
1125	10.56	Condition: Regular	07-04-2025 07:00AM EDT	17.76
1121	66.24	Condition: Regular	07-04-2025 08:00AM EDT	166.56
1117	134.4	Condition: Regular	07-04-2025 09:00AM EDT	432.96
1113	195.36	Condition: Regular	07-04-2025 10:00AM EDT	699.36
1109	233.28	Condition: Regular	07-04-2025 11:00AM EDT	879.84
1105	262.56	Condition: Regular	07-04-2025 12:00PM EDT	1016.64
1101	272.64	Condition: Regular	07-04-2025 01:00PM EDT	1081.92
1097	264.96	Condition: Regular	07-04-2025 02:00PM EDT	1080.96
1093	238.08	Condition: Regular	07-04-2025 03:00PM EDT	971.52
1089	229.44	Condition: Regular	07-04-2025 04:00PM EDT	957.12
1085	172.32	Condition: Regular	07-04-2025 05:00PM EDT	780
1081	126.72	Condition: Regular	07-04-2025 06:00PM EDT	593.28
1077	48.96	Condition: Regular	07-04-2025 07:00PM EDT	307.68
1073	0	Condition: Regular	07-04-2025 08:00PM EDT	59.04
1069	0	Condition: Regular	07-04-2025 09:00PM EDT	0
1065	0	Condition: Regular	07-04-2025 10:00PM EDT	0
1061	0	Condition: Regular	07-04-2025 11:00PM EDT	0
1057	0	Condition: Regular	07-05-2025 12:00AM EDT	0
1053	0	Condition: Regular	07-05-2025 01:00AM EDT	0
1049	0	Condition: Regular	07-05-2025 02:00AM EDT	0
1045	0	Condition: Regular	07-05-2025 03:00AM EDT	0
1041	0	Condition: Regular	07-05-2025 04:00AM EDT	0
1037	0	Condition: Regular	07-05-2025 05:00AM EDT	0
1033	0	Condition: Regular	07-05-2025 06:00AM EDT	0
1029	10.56	Condition: Regular	07-05-2025 07:00AM EDT	24.96
1025	67.68	Condition: Regular	07-05-2025 08:00AM EDT	155.52
1021	116.64	Condition: Regular	07-05-2025 09:00AM EDT	396.48
1017	172.8	Condition: Regular	07-05-2025 10:00AM EDT	628.32
1013	222.24	Condition: Regular	07-05-2025 11:00AM EDT	816.96
1009	245.76	Condition: Regular	07-05-2025 12:00PM EDT	935.04
1005	250.56	Condition: Regular	07-05-2025 01:00PM EDT	994.08
1001	240	Condition: Regular	07-05-2025 02:00PM EDT	946.56

997	257.28	Condition: Regular	07-05-2025 03:00PM EDT	1026.72
993	226.08	Condition: Regular	07-05-2025 04:00PM EDT	952.32
989	182.4	Condition: Regular	07-05-2025 05:00PM EDT	801.12
985	121.92	Condition: Regular	07-05-2025 06:00PM EDT	591.84
981	52.32	Condition: Regular	07-05-2025 07:00PM EDT	314.4
977	0	Condition: Regular	07-05-2025 08:00PM EDT	49.92
973	0	Condition: Regular	07-05-2025 09:00PM EDT	0
969	0	Condition: Regular	07-05-2025 10:00PM EDT	0
965	0	Condition: Regular	07-05-2025 11:00PM EDT	0
961	0	Condition: Regular	07-06-2025 12:00AM EDT	0
957	0	Condition: Regular	07-06-2025 01:00AM EDT	0
953	0	Condition: Regular	07-06-2025 02:00AM EDT	0
949	0	Condition: Regular	07-06-2025 03:00AM EDT	0
945	0	Condition: Regular	07-06-2025 04:00AM EDT	0
941	0	Condition: Regular	07-06-2025 05:00AM EDT	0
937	0	Condition: Regular	07-06-2025 06:00AM EDT	0
933	13.92	Condition: Regular	07-06-2025 07:00AM EDT	25.92
929	64.32	Condition: Regular	07-06-2025 08:00AM EDT	171.84
925	114.24	Condition: Regular	07-06-2025 09:00AM EDT	374.4
921	182.88	Condition: Regular	07-06-2025 10:00AM EDT	642.72
917	187.68	Condition: Regular	07-06-2025 11:00AM EDT	789.12
913	0	Condition: Regular	07-06-2025 12:00PM EDT	0
909	0	Condition: Regular	07-06-2025 01:00PM EDT	0
905	0	Condition: Regular	07-06-2025 02:00PM EDT	0
901	0	Condition: Regular	07-06-2025 03:00PM EDT	0
897	0	Condition: Regular	07-06-2025 04:00PM EDT	0
893	0	Condition: Regular	07-06-2025 05:00PM EDT	0
889	0	Condition: Regular	07-06-2025 06:00PM EDT	0
885	0	Condition: Regular	07-06-2025 07:00PM EDT	0
881	0	Condition: Regular	07-06-2025 08:00PM EDT	0
877	0	Condition: Regular	07-06-2025 09:00PM EDT	0
873	0	Condition: Regular	07-06-2025 10:00PM EDT	0
869	0	Condition: Regular	07-06-2025 11:00PM EDT	0
865	0	Condition: Regular	07-07-2025 12:00AM EDT	0
861	0	Condition: Regular	07-07-2025 01:00AM EDT	0
857	0	Condition: Regular	07-07-2025 02:00AM EDT	0
853	0	Condition: Regular	07-07-2025 03:00AM EDT	0
849	0	Condition: Regular	07-07-2025 04:00AM EDT	0
845	0	Condition: Regular	07-07-2025 05:00AM EDT	0
841	0	Condition: Regular	07-07-2025 06:00AM EDT	0
837	0	Condition: Regular	07-07-2025 07:00AM EDT	0
833	25.44	Condition: Regular	07-07-2025 08:00AM EDT	26.4
829	74.4	Condition: Regular	07-07-2025 09:00AM EDT	196.8
825	57.12	Condition: Regular	07-07-2025 10:00AM EDT	241.44
821	67.68	Condition: Regular	07-07-2025 11:00AM EDT	372
817	109.44	Condition: Regular	07-07-2025 12:00PM EDT	684.48
813	200.64	Condition: Regular	07-07-2025 01:00PM EDT	542.88

809	134.88	Condition: Regular	07-07-2025 02:00PM EDT	587.04
805	197.28	Condition: Regular	07-07-2025 03:00PM EDT	419.52
801	7.68	Condition: Regular	07-07-2025 04:00PM EDT	260.16
797	0	Condition: Regular	07-07-2025 05:00PM EDT	0
793	6.72	Condition: Regular	07-07-2025 06:00PM EDT	15.84
789	0	Condition: Regular	07-07-2025 07:00PM EDT	2.4
785	0	Condition: Regular	07-07-2025 08:00PM EDT	0
781	0	Condition: Regular	07-07-2025 09:00PM EDT	0
777	0	Condition: Regular	07-07-2025 10:00PM EDT	0
773	0	Condition: Regular	07-07-2025 11:00PM EDT	0
769	0	Condition: Regular	07-08-2025 12:00AM EDT	0
765	0	Condition: Regular	07-08-2025 01:00AM EDT	0
761	0	Condition: Regular	07-08-2025 02:00AM EDT	0
757	0	Condition: Regular	07-08-2025 03:00AM EDT	0
753	0	Condition: Regular	07-08-2025 04:00AM EDT	0
749	0	Condition: Regular	07-08-2025 05:00AM EDT	0
745	0	Condition: Regular	07-08-2025 06:00AM EDT	0
741	3.36	Condition: Regular	07-08-2025 07:00AM EDT	3.36
737	48	Condition: Regular	07-08-2025 08:00AM EDT	117.12
733	107.52	Condition: Regular	07-08-2025 09:00AM EDT	345.6
729	163.68	Condition: Regular	07-08-2025 10:00AM EDT	581.76
725	196.8	Condition: Regular	07-08-2025 11:00AM EDT	676.32
721	223.68	Condition: Regular	07-08-2025 12:00PM EDT	857.76
717	240.48	Condition: Regular	07-08-2025 01:00PM EDT	928.32
713	237.12	Condition: Regular	07-08-2025 02:00PM EDT	959.04
709	239.52	Condition: Regular	07-08-2025 03:00PM EDT	859.2
705	128.64	Condition: Regular	07-08-2025 04:00PM EDT	759.36
701	6.72	Condition: Regular	07-08-2025 05:00PM EDT	432.96
697	0	Condition: Regular	07-08-2025 06:00PM EDT	20.16
693	0	Condition: Regular	07-08-2025 07:00PM EDT	0
689	0	Condition: Regular	07-08-2025 08:00PM EDT	0
685	0	Condition: Regular	07-08-2025 09:00PM EDT	0
681	0	Condition: Regular	07-08-2025 10:00PM EDT	0
677	0	Condition: Regular	07-08-2025 11:00PM EDT	0
673	0	Condition: Regular	07-09-2025 12:00AM EDT	0
669	0	Condition: Regular	07-09-2025 01:00AM EDT	0
665	0	Condition: Regular	07-09-2025 02:00AM EDT	0
661	0	Condition: Regular	07-09-2025 03:00AM EDT	0
657	0	Condition: Regular	07-09-2025 04:00AM EDT	0
653	0	Condition: Regular	07-09-2025 05:00AM EDT	0
649	0	Condition: Regular	07-09-2025 06:00AM EDT	0
645	9.12	Condition: Regular	07-09-2025 07:00AM EDT	14.88
641	24.48	Condition: Regular	07-09-2025 08:00AM EDT	78.24
637	110.4	Condition: Regular	07-09-2025 09:00AM EDT	365.76
633	174.24	Condition: Regular	07-09-2025 10:00AM EDT	554.88
629	222.72	Condition: Regular	07-09-2025 11:00AM EDT	772.8
625	172.32	Condition: Regular	07-09-2025 12:00PM EDT	676.8

621	228.48	Condition: Regular	07-09-2025 01:00PM EDT	712.8
617	210.24	Condition: Regular	07-09-2025 02:00PM EDT	768.96
613	206.88	Condition: Regular	07-09-2025 03:00PM EDT	850.08
609	207.36	Condition: Regular	07-09-2025 04:00PM EDT	868.8
605	151.68	Condition: Regular	07-09-2025 05:00PM EDT	709.44
601	42.72	Condition: Regular	07-09-2025 06:00PM EDT	286.56
597	2.4	Condition: Regular	07-09-2025 07:00PM EDT	86.88
593	0	Condition: Regular	07-09-2025 08:00PM EDT	0
589	0	Condition: Regular	07-09-2025 09:00PM EDT	0
585	0	Condition: Regular	07-09-2025 10:00PM EDT	0
581	0	Condition: Regular	07-09-2025 11:00PM EDT	0
577	0	Condition: Regular	07-10-2025 12:00AM EDT	0
573	0	Condition: Regular	07-10-2025 01:00AM EDT	0
569	0	Condition: Regular	07-10-2025 02:00AM EDT	0
565	0	Condition: Regular	07-10-2025 03:00AM EDT	0
561	0	Condition: Regular	07-10-2025 04:00AM EDT	0
557	0	Condition: Regular	07-10-2025 05:00AM EDT	0
553	0	Condition: Regular	07-10-2025 06:00AM EDT	0
549	0	Condition: Regular	07-10-2025 07:00AM EDT	0
545	21.6	Condition: Regular	07-10-2025 08:00AM EDT	49.44
541	9.12	Condition: Regular	07-10-2025 09:00AM EDT	36
537	31.2	Condition: Regular	07-10-2025 10:00AM EDT	108.96
533	133.92	Condition: Regular	07-10-2025 11:00AM EDT	311.52
529	155.04	Condition: Regular	07-10-2025 12:00PM EDT	513.6
525	164.16	Condition: Regular	07-10-2025 01:00PM EDT	695.52
521	86.4	Condition: Regular	07-10-2025 02:00PM EDT	478.56
517	121.44	Condition: Regular	07-10-2025 03:00PM EDT	448.32
513	173.28	Condition: Regular	07-10-2025 04:00PM EDT	604.32
509	48.48	Condition: Regular	07-10-2025 05:00PM EDT	430.56
505	113.28	Condition: Regular	07-10-2025 06:00PM EDT	331.68
501	51.36	Condition: Regular	07-10-2025 07:00PM EDT	332.16
497	0	Condition: Regular	07-10-2025 08:00PM EDT	34.08
493	0	Condition: Regular	07-10-2025 09:00PM EDT	0
489	0	Condition: Regular	07-10-2025 10:00PM EDT	0
485	0	Condition: Regular	07-10-2025 11:00PM EDT	0
481	0	Condition: Regular	07-11-2025 12:00AM EDT	0
477	0	Condition: Regular	07-11-2025 01:00AM EDT	0
473	0	Condition: Regular	07-11-2025 02:00AM EDT	0
469	0	Condition: Regular	07-11-2025 03:00AM EDT	0
465	0	Condition: Regular	07-11-2025 04:00AM EDT	0
461	0	Condition: Regular	07-11-2025 05:00AM EDT	0
457	0	Condition: Regular	07-11-2025 06:00AM EDT	0
453	0	Condition: Regular	07-11-2025 07:00AM EDT	0
449	25.92	Condition: Regular	07-11-2025 08:00AM EDT	43.68
445	52.8	Condition: Regular	07-11-2025 09:00AM EDT	155.52
441	196.32	Condition: Regular	07-11-2025 10:00AM EDT	463.2
437	129.6	Condition: Regular	07-11-2025 11:00AM EDT	563.04

433	168.96	Condition: Regular	07-11-2025 12:00PM EDT	718.56
429	215.04	Condition: Regular	07-11-2025 01:00PM EDT	893.28
425	254.88	Condition: Regular	07-11-2025 02:00PM EDT	1000.8
421	249.6	Condition: Regular	07-11-2025 03:00PM EDT	986.4
417	192.96	Condition: Regular	07-11-2025 04:00PM EDT	919.68
413	111.84	Condition: Regular	07-11-2025 05:00PM EDT	724.8
409	131.52	Condition: Regular	07-11-2025 06:00PM EDT	442.08
405	58.08	Condition: Regular	07-11-2025 07:00PM EDT	347.04
401	0	Condition: Regular	07-11-2025 08:00PM EDT	24.48
397	0	Condition: Regular	07-11-2025 09:00PM EDT	0
393	0	Condition: Regular	07-11-2025 10:00PM EDT	0
389	0	Condition: Regular	07-11-2025 11:00PM EDT	0
385	0	Condition: Regular	07-12-2025 12:00AM EDT	0
381	0	Condition: Regular	07-12-2025 01:00AM EDT	0
377	0	Condition: Regular	07-12-2025 02:00AM EDT	0
373	0	Condition: Regular	07-12-2025 03:00AM EDT	0
369	0	Condition: Regular	07-12-2025 04:00AM EDT	0
365	0	Condition: Regular	07-12-2025 05:00AM EDT	0
361	0	Condition: Regular	07-12-2025 06:00AM EDT	0
357	0	Condition: Regular	07-12-2025 07:00AM EDT	0
353	33.12	Condition: Regular	07-12-2025 08:00AM EDT	69.12
349	132	Condition: Regular	07-12-2025 09:00AM EDT	333.6
345	118.56	Condition: Regular	07-12-2025 10:00AM EDT	488.64
341	191.52	Condition: Regular	07-12-2025 11:00AM EDT	815.04
337	280.8	Condition: Regular	07-12-2025 12:00PM EDT	889.44
333	282.72	Condition: Regular	07-12-2025 01:00PM EDT	1094.88
329	279.36	Condition: Regular	07-12-2025 02:00PM EDT	1100.64
325	271.68	Condition: Regular	07-12-2025 03:00PM EDT	1063.2
321	127.68	Condition: Regular	07-12-2025 04:00PM EDT	643.68
317	51.84	Condition: Regular	07-12-2025 05:00PM EDT	600.48
313	88.32	Condition: Regular	07-12-2025 06:00PM EDT	405.12
309	38.88	Condition: Regular	07-12-2025 07:00PM EDT	202.08
305	0	Condition: Regular	07-12-2025 08:00PM EDT	43.68
301	0	Condition: Regular	07-12-2025 09:00PM EDT	0
297	0	Condition: Regular	07-12-2025 10:00PM EDT	0
293	0	Condition: Regular	07-12-2025 11:00PM EDT	0
289	0	Condition: Regular	07-13-2025 12:00AM EDT	0
285	0	Condition: Regular	07-13-2025 01:00AM EDT	0
281	0	Condition: Regular	07-13-2025 02:00AM EDT	0
277	0	Condition: Regular	07-13-2025 03:00AM EDT	0
273	0	Condition: Regular	07-13-2025 04:00AM EDT	0
269	0	Condition: Regular	07-13-2025 05:00AM EDT	0
265	0	Condition: Regular	07-13-2025 06:00AM EDT	0
261	4.8	Condition: Regular	07-13-2025 07:00AM EDT	7.2
257	43.2	Condition: Regular	07-13-2025 08:00AM EDT	113.28
253	106.08	Condition: Regular	07-13-2025 09:00AM EDT	325.44
249	83.52	Condition: Regular	07-13-2025 10:00AM EDT	326.4

245	137.76	Condition: Regular	07-13-2025 11:00AM EDT	520.32
241	239.52	Condition: Regular	07-13-2025 12:00PM EDT	948.48
237	221.28	Condition: Regular	07-13-2025 01:00PM EDT	811.68
233	101.76	Condition: Regular	07-13-2025 02:00PM EDT	666.72
229	160.8	Condition: Regular	07-13-2025 03:00PM EDT	493.44
225	73.44	Condition: Regular	07-13-2025 04:00PM EDT	597.12
221	60.96	Condition: Regular	07-13-2025 05:00PM EDT	342.72
217	84	Condition: Regular	07-13-2025 06:00PM EDT	349.92
213	27.36	Condition: Regular	07-13-2025 07:00PM EDT	151.2
209	0	Condition: Regular	07-13-2025 08:00PM EDT	11.52
205	0	Condition: Regular	07-13-2025 09:00PM EDT	0
201	0	Condition: Regular	07-13-2025 10:00PM EDT	0
197	0	Condition: Regular	07-13-2025 11:00PM EDT	0
193	0	Condition: Regular	07-14-2025 12:00AM EDT	0
189	0	Condition: Regular	07-14-2025 01:00AM EDT	0
185	0	Condition: Regular	07-14-2025 02:00AM EDT	0
181	0	Condition: Regular	07-14-2025 03:00AM EDT	0
177	0	Condition: Regular	07-14-2025 04:00AM EDT	0
173	0	Condition: Regular	07-14-2025 05:00AM EDT	0
169	0	Condition: Regular	07-14-2025 06:00AM EDT	0
165	2.4	Condition: Regular	07-14-2025 07:00AM EDT	2.4
161	15.84	Condition: Regular	07-14-2025 08:00AM EDT	80.64
157	24.48	Condition: Regular	07-14-2025 09:00AM EDT	132.48
153	101.28	Condition: Regular	07-14-2025 10:00AM EDT	289.92
149	128.16	Condition: Regular	07-14-2025 11:00AM EDT	517.92
145	261.6	Condition: Regular	07-14-2025 12:00PM EDT	686.88
141	192	Condition: Regular	07-14-2025 01:00PM EDT	767.04
137	156	Condition: Regular	07-14-2025 02:00PM EDT	891.84
133	189.12	Condition: Regular	07-14-2025 03:00PM EDT	894.72
129	164.16	Condition: Regular	07-14-2025 04:00PM EDT	500.16
125	0.96	Condition: Regular	07-14-2025 05:00PM EDT	41.28
121	0	Condition: Regular	07-14-2025 06:00PM EDT	0
117	0	Condition: Regular	07-14-2025 07:00PM EDT	0
113	0	Condition: Regular	07-14-2025 08:00PM EDT	0
109	0	Condition: Regular	07-14-2025 09:00PM EDT	0
105	0	Condition: Regular	07-14-2025 10:00PM EDT	0
101	0	Condition: Regular	07-14-2025 11:00PM EDT	0
97	0	Condition: Regular	07-15-2025 12:00AM EDT	0
93	0	Condition: Regular	07-15-2025 01:00AM EDT	0
89	0	Condition: Regular	07-15-2025 02:00AM EDT	0
85	0	Condition: Regular	07-15-2025 03:00AM EDT	0
81	0	Condition: Regular	07-15-2025 04:00AM EDT	0
77	0	Condition: Regular	07-15-2025 05:00AM EDT	0
73	0	Condition: Regular	07-15-2025 06:00AM EDT	0
69	0	Condition: Regular	07-15-2025 07:00AM EDT	0
65	16.8	Condition: Regular	07-15-2025 08:00AM EDT	35.04
61	30.24	Condition: Regular	07-15-2025 09:00AM EDT	97.44

57	18.72	Condition: Regular	07-15-2025 10:00AM EDT	150.72
53	24.48	Condition: Regular	07-15-2025 11:00AM EDT	157.44
49	81.6	Condition: Regular	07-15-2025 12:00PM EDT	211.68
45	116.64	Condition: Regular	07-15-2025 01:00PM EDT	354.24
41	164.16	Condition: Regular	07-15-2025 02:00PM EDT	630.24
37	262.08	Condition: Regular	07-15-2025 03:00PM EDT	541.92
33	244.32	Condition: Regular	07-15-2025 04:00PM EDT	690.24
29	199.2	Condition: Regular	07-15-2025 05:00PM EDT	688.8
25	149.28	Condition: Regular	07-15-2025 06:00PM EDT	697.92
21	55.68	Condition: Regular	07-15-2025 07:00PM EDT	370.56
17	0	Condition: Regular	07-15-2025 08:00PM EDT	23.52
13	0	Condition: Regular	07-15-2025 09:00PM EDT	0
9	0	Condition: Regular	07-15-2025 10:00PM EDT	0
5	0	Condition: Regular	07-15-2025 11:00PM EDT	0
1	0	Condition: Regular	07-16-2025 12:00AM EDT	0
				173,832

				Excess Generation	VALUE	DATE	TIME	LMPs Pricing	
2877	0	Condition: Regular	06-16-2025 01 00AM EDT	0	0.01195	2025/06/16	01 00:00	$	-
2873	0	Condition: Regular	06-16-2025 02 00AM EDT	0	0.01205	2025/06/16	02 00:00	$	-
2869	0	Condition: Regular	06-16-2025 03 00AM EDT	0	0.01133	2025/06/16	03 00:00	$	-
2865	0	Condition: Regular	06-16-2025 04 00AM EDT	0	0.01111	2025/06/16	04 00:00	$	-
2861	0	Condition: Regular	06-16-2025 05 00AM EDT	0	0.01125	2025/06/16	05 00:00	$	-
2857	0	Condition: Regular	06-16-2025 06 00AM EDT	0	0.01401	2025/06/16	06 00:00	$	-
2853	0	Condition: Regular	06-16-2025 07 00AM EDT	0	0.01701	2025/06/16	07 00:00	$	-
2849	0	Condition: Regular	06-16-2025 08 00AM EDT	0	0.02051	2025/06/16	08 00:00	$	-
2845	4.32	Condition: Regular	06-16-2025 09 00AM EDT	4.32	0.02450	2025/06/16	09 00:00	$	0.11
2841	4.32	Condition: Regular	06-16-2025 10 00AM EDT	17.76	0.02739	2025/06/16	10 00:00	$	0.49
2837	16.8	Condition: Regular	06-16-2025 11 00AM EDT	31.68	0.02718	2025/06/16	11 00:00	$	0.86
2833	17.76	Condition: Regular	06-16-2025 12 00PM EDT	62.88	0.02440	2025/06/16	12 00:00	$	1.53
2829	34.56	Condition: Regular	06-16-2025 01 00PM EDT	120.96	0.02749	2025/06/16	13 00:00	$	3.33
2825	47.04	Condition: Regular	06-16-2025 02 00PM EDT	177.12	0.02276	2025/06/16	14 00:00	$	4.03
2821	10.08	Condition: Regular	06-16-2025 03 00PM EDT	107.52	0.01723	2025/06/16	15 00:00	$	1.85
2817	13.44	Condition: Regular	06-16-2025 04 00PM EDT	47.04	0.01778	2025/06/16	16 00:00	$	0.84
2813	7.68	Condition: Regular	06-16-2025 05 00PM EDT	33.12	0.01728	2025/06/16	17 00:00	$	0.57
2809	5.76	Condition: Regular	06-16-2025 06 00PM EDT	26.4	0.01949	2025/06/16	18 00:00	$	0.51
2805	2.4	Condition: Regular	06-16-2025 07 00PM EDT	7.2	0.01980	2025/06/16	19 00:00	$	0.14
2801	0	Condition: Regular	06-16-2025 08 00PM EDT	0	0.02193	2025/06/16	20 00:00	$	-
2797	0	Condition: Regular	06-16-2025 09 00PM EDT	0	0.02896	2025/06/16	21 00:00	$	-
2793	0	Condition: Regular	06-16-2025 10 00PM EDT	0	0.03292	2025/06/16	22 00:00	$	-
2789	0	Condition: Regular	06-16-2025 11 00PM EDT	0	0.02494	2025/06/16	23 00:00	$	-
2785	0	Condition: Regular	06-17-2025 12 00AM EDT	0	0.02434	2025/06/16	24 00:00	$	-
2781	0	Condition: Regular	06-17-2025 01 00AM EDT	0	0.01614	2025/06/17	01 00:00	$	-
2777	0	Condition: Regular	06-17-2025 02 00AM EDT	0	0.01398	2025/06/17	02 00:00	$	-
2773	0	Condition: Regular	06-17-2025 03 00AM EDT	0	0.01201	2025/06/17	03 00:00	$	-
2769	0	Condition: Regular	06-17-2025 04 00AM EDT	0	0.01198	2025/06/17	04 00:00	$	-
2765	0	Condition: Regular	06-17-2025 05 00AM EDT	0	0.01184	2025/06/17	05 00:00	$	-
2761	0	Condition: Regular	06-17-2025 06 00AM EDT	0	0.01632	2025/06/17	06 00:00	$	-
2757	0	Condition: Regular	06-17-2025 07 00AM EDT	0	0.01980	2025/06/17	07 00:00	$	-
2753	0.96	Condition: Regular	06-17-2025 08 00AM EDT	3.36	0.02285	2025/06/17	08 00:00	$	0.08
2749	3.36	Condition: Regular	06-17-2025 09 00AM EDT	14.4	0.02633	2025/06/17	09 00:00	$	0.38
2745	68.64	Condition: Regular	06-17-2025 10 00AM EDT	203.52	0.02473	2025/06/17	10 00:00	$	5.03
2741	99.84	Condition: Regular	06-17-2025 11 00AM EDT	279.84	0.02561	2025/06/17	11 00:00	$	7.17
2737	157.92	Condition: Regular	06-17-2025 12 00PM EDT	566.4	0.02361	2025/06/17	12 00:00	$	13.37
2733	91.68	Condition: Regular	06-17-2025 01 00PM EDT	374.88	0.02130	2025/06/17	13 00:00	$	7.98
2729	130.08	Condition: Regular	06-17-2025 02 00PM EDT	499.68	0.02109	2025/06/17	14 00:00	$	10.54
2725	120.48	Condition: Regular	06-17-2025 03 00PM EDT	501.12	0.01877	2025/06/17	15 00:00	$	9.41
2721	33.6	Condition: Regular	06-17-2025 04 00PM EDT	561.6	0.02022	2025/06/17	16 00:00	$	11.36
2717	24.96	Condition: Regular	06-17-2025 05 00PM EDT	113.76	0.02051	2025/06/17	17 00:00	$	2.33
2713	16.32	Condition: Regular	06-17-2025 06 00PM EDT	80.64	0.02570	2025/06/17	18 00:00	$	2.07
2709	2.4	Condition: Regular	06-17-2025 07 00PM EDT	55.68	0.02471	2025/06/17	19 00:00	$	1.38
2705	0	Condition: Regular	06-17-2025 08 00PM EDT	0	0.02017	2025/06/17	20 00:00	$	-
2701	0	Condition: Regular	06-17-2025 09 00PM EDT	0	0.01837	2025/06/17	21 00:00	$	-
2697	0	Condition: Regular	06-17-2025 10 00PM EDT	0	0.02406	2025/06/17	22 00:00	$	-
2693	0	Condition: Regular	06-17-2025 11 00PM EDT	0	0.02152	2025/06/17	23 00:00	$	-
2689	0	Condition: Regular	06-18-2025 12 00AM EDT	0	0.02096	2025/06/17	24 00:00	$	-
2685	0	Condition: Regular	06-18-2025 01 00AM EDT	0	0.02357	2025/06/18	01 00:00	$	-
2681	0	Condition: Regular	06-18-2025 02 00AM EDT	0	0.02219	2025/06/18	02 00:00	$	-
2677	0	Condition: Regular	06-18-2025 03 00AM EDT	0	0.01977	2025/06/18	03 00:00	$	-
2673	0	Condition: Regular	06-18-2025 04 00AM EDT	0	0.01807	2025/06/18	04 00:00	$	-
2669	0	Condition: Regular	06-18-2025 05 00AM EDT	0	0.02032	2025/06/18	05 00:00	$	-
2665	0	Condition: Regular	06-18-2025 06 00AM EDT	0	0.02293	2025/06/18	06 00:00	$	-
2661	3.36	Condition: Regular	06-18-2025 07 00AM EDT	3.36	0.02870	2025/06/18	07 00:00	$	0.10
2657	0	Condition: Regular	06-18-2025 08 00AM EDT	3.36	0.02932	2025/06/18	08 00:00	$	0.10
2653	43.68	Condition: Regular	06-18-2025 09 00AM EDT	89.76	0.03024	2025/06/18	09 00:00	$	2.71
2649	72	Condition: Regular	06-18-2025 10 00AM EDT	247.2	0.03062	2025/06/18	10 00:00	$	7.57
2645	103.68	Condition: Regular	06-18-2025 11 00AM EDT	339.84	0.03321	2025/06/18	11 00:00	$	11.29
2641	102.24	Condition: Regular	06-18-2025 12 00PM EDT	485.28	0.03379	2025/06/18	12 00:00	$	16.40
2637	217.92	Condition: Regular	06-18-2025 01 00PM EDT	824.16	0.03535	2025/06/18	13 00:00	$	29.13
2633	176.16	Condition: Regular	06-18-2025 02 00PM EDT	832.32	0.03876	2025/06/18	14 00:00	$	32.26
2629	210.24	Condition: Regular	06-18-2025 03 00PM EDT	684.48	0.04034	2025/06/18	15 00:00	$	27.61
2625	85.44	Condition: Regular	06-18-2025 04 00PM EDT	597.12	0.04596	2025/06/18	16 00:00	$	27.44
2621	0.96	Condition: Regular	06-18-2025 05 00PM EDT	96.96	0.05371	2025/06/18	17 00:00	$	5.21
2617	11.52	Condition: Regular	06-18-2025 06 00PM EDT	31.68	0.06109	2025/06/18	18 00:00	$	1.94
2613	29.76	Condition: Regular	06-18-2025 07 00PM EDT	66.72	0.05694	2025/06/18	19 00:00	$	3.80
2609	4.8	Condition: Regular	06-18-2025 08 00PM EDT	103.68	0.04476	2025/06/18	20 00:00	$	4.64
2605	0	Condition: Regular	06-18-2025 09 00PM EDT	0	0.03858	2025/06/18	21 00:00	$	-
2601	0	Condition: Regular	06-18-2025 10 00PM EDT	0	0.03885	2025/06/18	22 00:00	$	-
2597	0	Condition: Regular	06-18-2025 11 00PM EDT	0	0.03572	2025/06/18	23 00:00	$	-
2593	0	Condition: Regular	06-19-2025 12 00AM EDT	0	0.03318	2025/06/18	24 00:00	$	-
2589	0	Condition: Regular	06-19-2025 01 00AM EDT	0	0.02805	2025/06/19	01 00:00	$	-
2585	0	Condition: Regular	06-19-2025 02 00AM EDT	0	0.02430	2025/06/19	02 00:00	$	-
2581	0	Condition: Regular	06-19-2025 03 00AM EDT	0	0.02126	2025/06/19	03 00:00	$	-
2577	0	Condition: Regular	06-19-2025 04 00AM EDT	0	0.01924	2025/06/19	04 00:00	$	-
2573	0	Condition: Regular	06-19-2025 05 00AM EDT	0	0.01942	2025/06/19	05 00:00	$	-
2569	0	Condition: Regular	06-19-2025 06 00AM EDT	0	0.02242	2025/06/19	06 00:00	$	-
2565	4.32	Condition: Regular	06-19-2025 07 00AM EDT	9.12	0.02439	2025/06/19	07 00:00	$	0.22
2561	57.12	Condition: Regular	06-19-2025 08 00AM EDT	139.68	0.02589	2025/06/19	08 00:00	$	3.62
2557	115.2	Condition: Regular	06-19-2025 09 00AM EDT	374.4	0.02907	2025/06/19	09 00:00	$	10.88
2553	170.4	Condition: Regular	06-19-2025 10 00AM EDT	607.2	0.03311	2025/06/19	10 00:00	$	20.10
2549	215.52	Condition: Regular	06-19-2025 11 00AM EDT	794.4	0.03547	2025/06/19	11 00:00	$	28.18
2545	217.44	Condition: Regular	06-19-2025 12 00PM EDT	889.44	0.03695	2025/06/19	12 00:00	$	32.86
2541	254.88	Condition: Regular	06-19-2025 01 00PM EDT	1004.64	0.03871	2025/06/19	13 00:00	$	38.89
2537	235.2	Condition: Regular	06-19-2025 02 00PM EDT	1011.84	0.04603	2025/06/19	14 00:00	$	46.57
2533	167.04	Condition: Regular	06-19-2025 03 00PM EDT	858.72	0.04631	2025/06/19	15 00:00	$	39.77
2529	237.6	Condition: Regular	06-19-2025 04 00PM EDT	424.32	0.04816	2025/06/19	16 00:00	$	20.44
2525	168.96	Condition: Regular	06-19-2025 05 00PM EDT	722.88	0.05926	2025/06/19	17 00:00	$	42.84
2521	0	Condition: Regular	06-19-2025 06 00PM EDT	108.48	0.06762	2025/06/19	18 00:00	$	7.34
2517	0	Condition: Regular	06-19-2025 07 00PM EDT	0	0.05644	2025/06/19	19 00:00	$	-
2513	0	Condition: Regular	06-19-2025 08 00PM EDT	0	0.04794	2025/06/19	20 00:00	$	-
2509	0	Condition: Regular	06-19-2025 09 00PM EDT	0	0.04399	2025/06/19	21 00:00	$	-
2505	0	Condition: Regular	06-19-2025 10 00PM EDT	0	0.03803	2025/06/19	22 00:00	$	-
2501	0	Condition: Regular	06-19-2025 11 00PM EDT	0	0.03467	2025/06/19	23 00:00	$	-
2497	0	Condition: Regular	06-20-2025 12 00AM EDT	0	0.03329	2025/06/19	24 00:00	$	-
2493	0	Condition: Regular	06-20-2025 01 00AM EDT	0	0.02762	2025/06/20	01 00:00	$	-
2489	0	Condition: Regular	06-20-2025 02 00AM EDT	0	0.02589	2025/06/20	02 00:00	$	-
2485	0	Condition: Regular	06-20-2025 03 00AM EDT	0	0.02272	2025/06/20	03 00:00	$	-
2481	0	Condition: Regular	06-20-2025 04 00AM EDT	0	0.02181	2025/06/20	04 00:00	$	-
2477	0	Condition: Regular	06-20-2025 05 00AM EDT	0	0.02160	2025/06/20	05 00:00	$	-
2473	0	Condition: Regular	06-20-2025 06 00AM EDT	0	0.02201	2025/06/20	06 00:00	$	-
2469	0	Condition: Regular	06-20-2025 07 00AM EDT	0	0.02313	2025/06/20	07 00:00	$	-
2465	0	Condition: Regular	06-20-2025 08 00AM EDT	0	0.02479	2025/06/20	08 00:00	$	-
2461	0	Condition: Regular	06-20-2025 09 00AM EDT	0	0.02460	2025/06/20	09 00:00	$	-
2457	189.6	Condition: Regular	06-20-2025 10 00AM EDT	434.88	0.02524	2025/06/20	10 00:00	$	10.98
2453	233.28	Condition: Regular	06-20-2025 11 00AM EDT	876.48	0.02752	2025/06/20	11 00:00	$	24.12
2449	260.64	Condition: Regular	06-20-2025 12 00PM EDT	1006.08	0.03115	2025/06/20	12 00:00	$	31.34
2445	273.12	Condition: Regular	06-20-2025 01 00PM EDT	1077.6	0.03204	2025/06/20	13 00:00	$	34.53
2441	262.08	Condition: Regular	06-20-2025 02 00PM EDT	1008	0.03344	2025/06/20	14 00:00	$	33.71
2437	201.12	Condition: Regular	06-20-2025 03 00PM EDT	912.96	0.03410	2025/06/20	15 00:00	$	31.13
2433	231.84	Condition: Regular	06-20-2025 04 00PM EDT	970.08	0.03608	2025/06/20	16 00:00	$	35.00
2429	165.6	Condition: Regular	06-20-2025 05 00PM EDT	604.32	0.03730	2025/06/20	17 00:00	$	22.54
2425	81.6	Condition: Regular	06-20-2025 06 00PM EDT	571.2	0.04382	2025/06/20	18 00:00	$	25.03
2421	33.12	Condition: Regular	06-20-2025 07 00PM EDT	266.88	0.04535	2025/06/20	19 00:00	$	12.10
2417	4.8	Condition: Regular	06-20-2025 08 00PM EDT	94.08	0.04517	2025/06/20	20 00:00	$	4.25
2413	0	Condition: Regular	06-20-2025 09 00PM EDT	0	0.03233	2025/06/20	21 00:00	$	-
2409	0	Condition: Regular	06-20-2025 10 00PM EDT	0	0.03391	2025/06/20	22 00:00	$	-
2405	0	Condition: Regular	06-20-2025 11 00PM EDT	0	0.03252	2025/06/20	23 00:00	$	-
2401	0	Condition: Regular	06-21-2025 12 00AM EDT	0	0.02820	2025/06/20	24 00:00	$	-
2397	0	Condition: Regular	06-21-2025 01 00AM EDT	0	0.02261	2025/06/21	01 00:00	$	-
2393	0	Condition: Regular	06-21-2025 02 00AM EDT	0	0.02130	2025/06/21	02 00:00	$	-
2389	0	Condition: Regular	06-21-2025 03 00AM EDT	0	0.01948	2025/06/21	03 00:00	$	-
2385	0	Condition: Regular	06-21-2025 04 00AM EDT	0	0.01855	2025/06/21	04 00:00	$	-
2381	0	Condition: Regular	06-21-2025 05 00AM EDT	0	0.01798	2025/06/21	05 00:00	$	-
2377	0	Condition: Regular	06-21-2025 06 00AM EDT	0	0.01694	2025/06/21	06 00:00	$	-
2373	10.56	Condition: Regular	06-21-2025 07 00AM EDT	10.56	0.01778	2025/06/21	07 00:00	$	0.19
2369	43.2	Condition: Regular	06-21-2025 08 00AM EDT	130.56	0.01733	2025/06/21	08 00:00	$	2.26
2365	138.72	Condition: Regular	06-21-2025 09 00AM EDT	471.84	0.01977	2025/06/21	09 00:00	$	9.33
2361	197.28	Condition: Regular	06-21-2025 10 00AM EDT	708	0.02190	2025/06/21	10 00:00	$	15.51
2357	239.04	Condition: Regular	06-21-2025 11 00AM EDT	896.64	0.02591	2025/06/21	11 00:00	$	23.23
2353	264.96	Condition: Regular	06-21-2025 12 00PM EDT	1023.84	0.02953	2025/06/21	12 00:00	$	30.23
2349	276.48	Condition: Regular	06-21-2025 01 00PM EDT	1092.48	0.03174	2025/06/21	13 00:00	$	34.68
2345	273.12	Condition: Regular	06-21-2025 02 00PM EDT	1076.64	0.03311	2025/06/21	14 00:00	$	35.65
2341	254.4	Condition: Regular	06-21-2025 03 00PM EDT	928.8	0.03434	2025/06/21	15 00:00	$	31.89
2337	161.28	Condition: Regular	06-21-2025 04 00PM EDT	764.64	0.03490	2025/06/21	16 00:00	$	26.69
2333	148.32	Condition: Regular	06-21-2025 05 00PM EDT	620.16	0.03872	2025/06/21	17 00:00	$	24.01
2329	92.16	Condition: Regular	06-21-2025 06 00PM EDT	552	0.04557	2025/06/21	18 00:00	$	25.15
2325	72.96	Condition: Regular	06-21-2025 07 00PM EDT	310.08	0.04615	2025/06/21	19 00:00	$	14.31
2321	0	Condition: Regular	06-21-2025 08 00PM EDT	75.84	0.04610	2025/06/21	20 00:00	$	3.50
2317	0	Condition: Regular	06-21-2025 09 00PM EDT	0	0.03885	2025/06/21	21 00:00	$	-
2313	0	Condition: Regular	06-21-2025 10 00PM EDT	0	0.03781	2025/06/21	22 00:00	$	-
2309	0	Condition: Regular	06-21-2025 11 00PM EDT	0	0.03477	2025/06/21	23 00:00	$	-
2305	0	Condition: Regular	06-22-2025 12 00AM EDT	0	0.03029	2025/06/21	24 00:00	$	-

2301	0	Condition: Regular	06-22-2025 01 00AM EDT	0	0.03609	2025/06/22	01 00:00	$	-
2297	0	Condition: Regular	06-22-2025 02 00AM EDT	0	0.02229	2025/06/22	02 00:00	$	-
2293	0	Condition: Regular	06-22-2025 03 00AM EDT	0	0.01989	2025/06/22	03 00:00	$	-
2289	0	Condition: Regular	06-22-2025 04 00AM EDT	0	0.01864	2025/06/22	04 00:00	$	-
2285	0	Condition: Regular	06-22-2025 05 00AM EDT	0	0.01738	2025/06/22	05 00:00	$	-
2281	0	Condition: Regular	06-22-2025 06 00AM EDT	0	0.01649	2025/06/22	06 00:00	$	-
2277	12.96	Condition: Regular	06-22-2025 07 00AM EDT	20.16	0.01677	2025/06/22	07 00:00	$	0.34
2273	45.6	Condition: Regular	06-22-2025 08 00AM EDT	134.88	0.01837	2025/06/22	08 00:00	$	2.48
2269	101.76	Condition: Regular	06-22-2025 09 00AM EDT	270.72	0.02130	2025/06/22	09 00:00	$	5.77
2265	80.64	Condition: Regular	06-22-2025 10 00AM EDT	427.68	0.02573	2025/06/22	10 00:00	$	11.00
2261	4.8	Condition: Regular	06-22-2025 11 00AM EDT	65.76	0.03305	2025/06/22	11 00:00	$	2.17
2257	2.4	Condition: Regular	06-22-2025 12 00PM EDT	16 8	0.03700	2025/06/22	12 00:00	$	0.62
2253	22.08	Condition: Regular	06-22-2025 01 00PM EDT	47.52	0.04007	2025/06/22	13 00:00	$	1.90
2249	88.32	Condition: Regular	06-22-2025 02 00PM EDT	229.44	0.04582	2025/06/22	14 00:00	$	10.51
2245	117.6	Condition: Regular	06-22-2025 03 00PM EDT	398.88	0.05460	2025/06/22	15 00:00	$	21.78
2241	152.64	Condition: Regular	06-22-2025 04 00PM EDT	513.6	0.05870	2025/06/22	16 00:00	$	30.15
2237	130.08	Condition: Regular	06-22-2025 05 00PM EDT	466.56	0.08767	2025/06/22	17 00:00	$	40.90
2233	125.28	Condition: Regular	06-22-2025 06 00PM EDT	626.88	0.11184	2025/06/22	18 00:00	$	70.11
2229	49.44	Condition: Regular	06-22-2025 07 00PM EDT	312	0.12595	2025/06/22	19 00:00	$	39.30
2225	2.4	Condition: Regular	06-22-2025 08 00PM EDT	68.16	0.10565	2025/06/22	20 00:00	$	7.20
2221	0	Condition: Regular	06-22-2025 09 00PM EDT	2.4	0.07865	2025/06/22	21 00:00	$	0.19
2217	0	Condition: Regular	06-22-2025 10 00PM EDT	0	0.05695	2025/06/22	22 00:00	$	-
2213	0	Condition: Regular	06-22-2025 11 00PM EDT	0	0.04694	2025/06/22	23 00:00	$	-
2209	0	Condition: Regular	06-23-2025 12 00AM EDT	0	0.03700	2025/06/22	24 00:00	$	-
2205	0	Condition: Regular	06-23-2025 01 00AM EDT	0	0.03305	2025/06/23	01 00:00	$	-
2201	0	Condition: Regular	06-23-2025 02 00AM EDT	0	0.02929	2025/06/23	02 00:00	$	-
2197	0	Condition: Regular	06-23-2025 03 00AM EDT	0	0.02614	2025/06/23	03 00:00	$	-
2193	0	Condition: Regular	06-23-2025 04 00AM EDT	0	0.02283	2025/06/23	04 00:00	$	-
2189	0	Condition: Regular	06-23-2025 05 00AM EDT	0	0.02160	2025/06/23	05 00:00	$	-
2185	0	Condition: Regular	06-23-2025 06 00AM EDT	0	0.02652	2025/06/23	06 00:00	$	-
2181	3.36	Condition: Regular	06-23-2025 07 00AM EDT	5.76	0.02999	2025/06/23	07 00:00	$	0.17
2177	50.4	Condition: Regular	06-23-2025 08 00AM EDT	121.92	0.03287	2025/06/23	08 00:00	$	4.01
2173	106.08	Condition: Regular	06-23-2025 09 00AM EDT	347.52	0.03834	2025/06/23	09 00:00	$	13.32
2169	161.28	Condition: Regular	06-23-2025 10 00AM EDT	565.92	0.04058	2025/06/23	10 00:00	$	22.97
2165	206.4	Condition: Regular	06-23-2025 11 00AM EDT	628.8	0.05898	2025/06/23	11 00:00	$	37.09
2161	223.2	Condition: Regular	06-23-2025 12 00PM EDT	884.16	0.07624	2025/06/23	12 00:00	$	67.41
2157	239.04	Condition: Regular	06-23-2025 01 00PM EDT	937.44	0.08922	2025/06/23	13 00:00	$	83.64
2153	228.96	Condition: Regular	06-23-2025 02 00PM EDT	958.08	0.10783	2025/06/23	14 00:00	$	103.31
2149	207.84	Condition: Regular	06-23-2025 03 00PM EDT	888	0.15034	2025/06/23	15 00:00	$	133.50
2145	174.24	Condition: Regular	06-23-2025 04 00PM EDT	743.52	0.18389	2025/06/23	16 00:00	$	136.73
2141	134.88	Condition: Regular	06-23-2025 05 00PM EDT	549.12	0.25518	2025/06/23	17 00:00	$	140.12
2137	100.8	Condition: Regular	06-23-2025 06 00PM EDT	469.92	0.27703	2025/06/23	18 00:00	$	130.18
2133	33.12	Condition: Regular	06-23-2025 07 00PM EDT	214.08	0.28332	2025/06/23	19 00:00	$	60.65
2129	0	Condition: Regular	06-23-2025 08 00PM EDT	36	0.23674	2025/06/23	20 00:00	$	8.52
2125	0	Condition: Regular	06-23-2025 09 00PM EDT	0	0.15074	2025/06/23	21 00:00	$	-
2121	0	Condition: Regular	06-23-2025 10 00PM EDT	0	0.08314	2025/06/23	22 00:00	$	-
2117	0	Condition: Regular	06-23-2025 11 00PM EDT	0	0.05630	2025/06/23	23 00:00	$	-
2113	0	Condition: Regular	06-24-2025 12 00AM EDT	0	0.05336	2025/06/23	24 00:00	$	-
2109	0	Condition: Regular	06-24-2025 01 00AM EDT	0	0.04977	2025/06/24	01 00:00	$	-
2105	0	Condition: Regular	06-24-2025 02 00AM EDT	0	0.04110	2025/06/24	02 00:00	$	-
2101	0	Condition: Regular	06-24-2025 03 00AM EDT	0	0.03484	2025/06/24	03 00:00	$	-
2097	0	Condition: Regular	06-24-2025 04 00AM EDT	0	0.03231	2025/06/24	04 00:00	$	-
2093	0	Condition: Regular	06-24-2025 05 00AM EDT	0	0.03123	2025/06/24	05 00:00	$	-
2089	0	Condition: Regular	06-24-2025 06 00AM EDT	0	0.03356	2025/06/24	06 00:00	$	-
2085	0.96	Condition: Regular	06-24-2025 07 00AM EDT	0.96	0.03887	2025/06/24	07 00:00	$	0.04
2081	52.32	Condition: Regular	06-24-2025 08 00AM EDT	116.16	0.04663	2025/06/24	08 00:00	$	5.42
2077	112.8	Condition: Regular	06-24-2025 09 00AM EDT	357.6	0.05378	2025/06/24	09 00:00	$	19.23
2073	170.4	Condition: Regular	06-24-2025 10 00AM EDT	601.44	0.08482	2025/06/24	10 00:00	$	51.01
2069	212.16	Condition: Regular	06-24-2025 11 00AM EDT	785.28	0.07550	2025/06/24	11 00:00	$	59.29
2065	230.88	Condition: Regular	06-24-2025 12 00PM EDT	899.04	0.09149	2025/06/24	12 00:00	$	82.25
2061	237.6	Condition: Regular	06-24-2025 01 00PM EDT	957.6	0.12314	2025/06/24	13 00:00	$	117.92
2057	136.8	Condition: Regular	06-24-2025 02 00PM EDT	790.56	0.16722	2025/06/24	14 00:00	$	132.20
2053	113.28	Condition: Regular	06-24-2025 03 00PM EDT	487.2	0.21970	2025/06/24	15 00:00	$	107.04
2049	105.12	Condition: Regular	06-24-2025 04 00PM EDT	447.36	0.27106	2025/06/24	16 00:00	$	121.26
2045	89.28	Condition: Regular	06-24-2025 05 00PM EDT	376.32	0.35422	2025/06/24	17 00:00	$	133.30
2041	62.88	Condition: Regular	06-24-2025 06 00PM EDT	298.08	0.43648	2025/06/24	18 00:00	$	130.11
2037	21.12	Condition: Regular	06-24-2025 07 00PM EDT	148.32	0.42067	2025/06/24	19 00:00	$	62.39
2033	0	Condition: Regular	06-24-2025 08 00PM EDT	13.44	0.40253	2025/06/24	20 00:00	$	5.41
2029	0	Condition: Regular	06-24-2025 09 00PM EDT	0	0.25976	2025/06/24	21 00:00	$	-
2025	0	Condition: Regular	06-24-2025 10 00PM EDT	0	0.14637	2025/06/24	22 00:00	$	-
2021	0	Condition: Regular	06-24-2025 11 00PM EDT	0	0.08438	2025/06/24	23 00:00	$	-
2017	0	Condition: Regular	06-25-2025 12 00AM EDT	0	0.05559	2025/06/24	24 00:00	$	-
2013	0	Condition: Regular	06-25-2025 01 00AM EDT	0	0.05496	2025/06/25	01 00:00	$	-
2009	0	Condition: Regular	06-25-2025 02 00AM EDT	0	0.04485	2025/06/25	02 00:00	$	-
2005	0	Condition: Regular	06-25-2025 03 00AM EDT	0	0.03654	2025/06/25	03 00:00	$	-
2001	0	Condition: Regular	06-25-2025 04 00AM EDT	0	0.03405	2025/06/25	04 00:00	$	-
1997	0	Condition: Regular	06-25-2025 05 00AM EDT	0	0.03344	2025/06/25	05 00:00	$	-
1993	0	Condition: Regular	06-25-2025 06 00AM EDT	0	0.03566	2025/06/25	06 00:00	$	-
1989	0	Condition: Regular	06-25-2025 07 00AM EDT	0	0.04259	2025/06/25	07 00:00	$	-
1985	49.92	Condition: Regular	06-25-2025 08 00AM EDT	105.6	0.05228	2025/06/25	08 00:00	$	5.52
1981	117.6	Condition: Regular	06-25-2025 09 00AM EDT	363.84	0.05812	2025/06/25	09 00:00	$	21.15
1977	159.84	Condition: Regular	06-25-2025 10 00AM EDT	585.12	0.07598	2025/06/25	10 00:00	$	44.46
1973	206.4	Condition: Regular	06-25-2025 11 00AM EDT	759.84	0.08117	2025/06/25	11 00:00	$	61.68
1969	229.92	Condition: Regular	06-25-2025 12 00PM EDT	888.48	0.10293	2025/06/25	12 00:00	$	91.44
1965	228	Condition: Regular	06-25-2025 01 00PM EDT	922.08	0.12574	2025/06/25	13 00:00	$	115.94
1961	152.16	Condition: Regular	06-25-2025 02 00PM EDT	796 8	0.15444	2025/06/25	14 00:00	$	123.06
1957	152.64	Condition: Regular	06-25-2025 03 00PM EDT	632.16	0.16690	2025/06/25	15 00:00	$	105.51
1953	130.56	Condition: Regular	06-25-2025 04 00PM EDT	653.28	0.19328	2025/06/25	16 00:00	$	126.27
1949	115.2	Condition: Regular	06-25-2025 05 00PM EDT	315.84	0.22893	2025/06/25	17 00:00	$	72.31
1945	46.08	Condition: Regular	06-25-2025 06 00PM EDT	420.96	0.29425	2025/06/25	18 00:00	$	123.87
1941	36.96	Condition: Regular	06-25-2025 07 00PM EDT	295.68	0.25240	2025/06/25	19 00:00	$	74.63
1937	0	Condition: Regular	06-25-2025 08 00PM EDT	9.12	0.24034	2025/06/25	20 00:00	$	2.19
1933	0	Condition: Regular	06-25-2025 09 00PM EDT	0	0.14783	2025/06/25	21 00:00	$	-
1929	0	Condition: Regular	06-25-2025 10 00PM EDT	0	0.08775	2025/06/25	22 00:00	$	-
1925	0	Condition: Regular	06-25-2025 11 00PM EDT	0	0.06474	2025/06/25	23 00:00	$	-
1921	0	Condition: Regular	06-26-2025 12 00AM EDT	0	0.05161	2025/06/25	24 00:00	$	-
1917	0	Condition: Regular	06-26-2025 01 00AM EDT	0	0.05432	2025/06/26	01 00:00	$	-
1913	0	Condition: Regular	06-26-2025 02 00AM EDT	0	0.04497	2025/06/26	02 00:00	$	-
1909	0	Condition: Regular	06-26-2025 03 00AM EDT	0	0.03327	2025/06/26	03 00:00	$	-
1905	0	Condition: Regular	06-26-2025 04 00AM EDT	0	0.02958	2025/06/26	04 00:00	$	-
1901	0	Condition: Regular	06-26-2025 05 00AM EDT	0	0.02961	2025/06/26	05 00:00	$	-
1897	0	Condition: Regular	06-26-2025 06 00AM EDT	0	0.03473	2025/06/26	06 00:00	$	-
1893	1.92	Condition: Regular	06-26-2025 07 00AM EDT	1.92	0.03886	2025/06/26	07 00:00	$	0.07
1889	48.96	Condition: Regular	06-26-2025 08 00AM EDT	108.48	0.03917	2025/06/26	08 00:00	$	4.25
1885	110.88	Condition: Regular	06-26-2025 09 00AM EDT	352.32	0.04432	2025/06/26	09 00:00	$	15.61
1881	160.8	Condition: Regular	06-26-2025 10 00AM EDT	546.72	0.04860	2025/06/26	10 00:00	$	26.57
1877	199.68	Condition: Regular	06-26-2025 11 00AM EDT	707.04	0.05418	2025/06/26	11 00:00	$	38.31
1873	226.56	Condition: Regular	06-26-2025 12 00PM EDT	844.32	0.05202	2025/06/26	12 00:00	$	43.92
1869	223.2	Condition: Regular	06-26-2025 01 00PM EDT	919 2	0.03742	2025/06/26	13 00:00	$	34.40
1865	152.64	Condition: Regular	06-26-2025 02 00PM EDT	842.88	0.03539	2025/06/26	14 00:00	$	29.83
1861	247.68	Condition: Regular	06-26-2025 03 00PM EDT	871.68	0.02946	2025/06/26	15 00:00	$	25.68
1857	219.84	Condition: Regular	06-26-2025 04 00PM EDT	927.36	0.02484	2025/06/26	16 00:00	$	23.04
1853	174.72	Condition: Regular	06-26-2025 05 00PM EDT	767.52	0.03220	2025/06/26	17 00:00	$	24.71
1849	115.68	Condition: Regular	06-26-2025 06 00PM EDT	557.76	0.02746	2025/06/26	18 00:00	$	15.32
1845	0	Condition: Regular	06-26-2025 07 00PM EDT	127.68	0.02671	2025/06/26	19 00:00	$	3.41
1841	0	Condition: Regular	06-26-2025 08 00PM EDT	0	0.02160	2025/06/26	20 00:00	$	-
1837	0	Condition: Regular	06-26-2025 09 00PM EDT	0	0.01830	2025/06/26	21 00:00	$	-
1833	0	Condition: Regular	06-26-2025 10 00PM EDT	0	0.02103	2025/06/26	22 00:00	$	-
1829	0	Condition: Regular	06-26-2025 11 00PM EDT	0	0.02353	2025/06/26	23 00:00	$	-
1825	0	Condition: Regular	06-27-2025 12 00AM EDT	0	0.02539	2025/06/26	24 00:00	$	-
1821	0	Condition: Regular	06-27-2025 01 00AM EDT	0	0.02509	2025/06/27	01 00:00	$	-
1817	0	Condition: Regular	06-27-2025 02 00AM EDT	0	0.01982	2025/06/27	02 00:00	$	-
1813	0	Condition: Regular	06-27-2025 03 00AM EDT	0	0.01771	2025/06/27	03 00:00	$	-
1809	0	Condition: Regular	06-27-2025 04 00AM EDT	0	0.01788	2025/06/27	04 00:00	$	-
1805	0	Condition: Regular	06-27-2025 05 00AM EDT	0	0.01944	2025/06/27	05 00:00	$	-
1801	0	Condition: Regular	06-27-2025 06 00AM EDT	0	0.02411	2025/06/27	06 00:00	$	-
1797	0	Condition: Regular	06-27-2025 07 00AM EDT	0	0.02578	2025/06/27	07 00:00	$	-
1793	0	Condition: Regular	06-27-2025 08 00AM EDT	0	0.03216	2025/06/27	08 00:00	$	-
1789	4.32	Condition: Regular	06-27-2025 09 00AM EDT	4.32	0.03386	2025/06/27	09 00:00	$	0.15
1785	31.68	Condition: Regular	06-27-2025 10 00AM EDT	64.32	0.03574	2025/06/27	10 00:00	$	2.30
1781	36.96	Condition: Regular	06-27-2025 11 00AM EDT	156.48	0.03446	2025/06/27	11 00:00	$	5.39
1777	4.32	Condition: Regular	06-27-2025 12 00PM EDT	55 2	0.03093	2025/06/27	12 00:00	$	1.71
1773	21.12	Condition: Regular	06-27-2025 01 00PM EDT	68.16	0.02972	2025/06/27	13 00:00	$	2.03
1769	42.72	Condition: Regular	06-27-2025 02 00PM EDT	188.64	0.02839	2025/06/27	14 00:00	$	5.36
1765	29.28	Condition: Regular	06-27-2025 03 00PM EDT	116.64	0.02468	2025/06/27	15 00:00	$	2.88
1761	22.56	Condition: Regular	06-27-2025 04 00PM EDT	119.52	0.02430	2025/06/27	16 00:00	$	2.90
1757	33.12	Condition: Regular	06-27-2025 05 00PM EDT	135.36	0.02312	2025/06/27	17 00:00	$	3.13
1753	7.2	Condition: Regular	06-27-2025 06 00PM EDT	72.48	0.02618	2025/06/27	18 00:00	$	1.90
1749	0	Condition: Regular	06-27-2025 07 00PM EDT	7 2	0.02552	2025/06/27	19 00:00	$	0.18
1745	0	Condition: Regular	06-27-2025 08 00PM EDT	0	0.02958	2025/06/27	20 00:00	$	-
1741	0	Condition: Regular	06-27-2025 09 00PM EDT	0	0.02420	2025/06/27	21 00:00	$	-
1737	0	Condition: Regular	06-27-2025 10 00PM EDT	0	0.02665	2025/06/27	22 00:00	$	-
1733	0	Condition: Regular	06-27-2025 11 00PM EDT	0	0.02473	2025/06/27	23 00:00	$	-
1729	0	Condition: Regular	06-28-2025 12 00AM EDT	0	0.02337	2025/06/27	24 00:00	$	-
1725	0	Condition: Regular	06-28-2025 01 00AM EDT	0	0.01882	2025/06/28	01 00:00	$	-

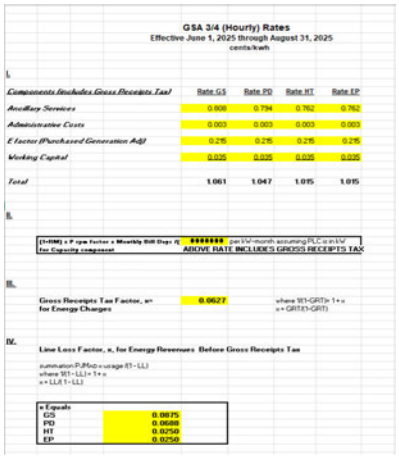
1721	0	Condition: Regular	06-28-2025 02 00AM EDT	0	0.01870	2025/06/28	02 00:00	$	-
1717	0	Condition: Regular	06-28-2025 03 00AM EDT	0	0.01748	2025/06/28	03 00:00	$	-
1713	0	Condition: Regular	06-28-2025 04 00AM EDT	0	0.01693	2025/06/28	04 00:00	$	-
1709	0	Condition: Regular	06-28-2025 05 00AM EDT	0	0.01740	2025/06/28	05 00:00	$	-
1705	0	Condition: Regular	06-28-2025 06 00AM EDT	0	0.01819	2025/06/28	06 00:00	$	-
1701	0	Condition: Regular	06-28-2025 07 00AM EDT	0	0.01921	2025/06/28	07 00:00	$	-
1697	45.6	Condition: Regular	06-28-2025 08 00AM EDT	69.12	0.01931	2025/06/28	08 00:00	$	1.33
1693	75.84	Condition: Regular	06-28-2025 09 00AM EDT	246.24	0.02247	2025/06/28	09 00:00	$	5.53
1689	88.32	Condition: Regular	06-28-2025 10 00AM EDT	281.28	0.02669	2025/06/28	10 00:00	$	7.51
1685	150.24	Condition: Regular	06-28-2025 11 00AM EDT	617.76	0.03013	2025/06/28	11 00:00	$	18.61
1681	177.12	Condition: Regular	06-28-2025 12 00PM EDT	753.6	0.03357	2025/06/28	12 00:00	$	25.30
1677	260.16	Condition: Regular	06-28-2025 01 00PM EDT	1020.96	0.03442	2025/06/28	13 00:00	$	35.14
1673	266.88	Condition: Regular	06-28-2025 02 00PM EDT	995.04	0.03474	2025/06/28	14 00:00	$	34.57
1669	264	Condition: Regular	06-28-2025 03 00PM EDT	1097.76	0.03160	2025/06/28	15 00:00	$	34.69
1665	222.24	Condition: Regular	06-28-2025 04 00PM EDT	944.16	0.03559	2025/06/28	16 00:00	$	33.60
1661	184.32	Condition: Regular	06-28-2025 05 00PM EDT	782.88	0.04137	2025/06/28	17 00:00	$	32.39
1657	119.04	Condition: Regular	06-28-2025 06 00PM EDT	581.28	0.04944	2025/06/28	18 00:00	$	28.74
1653	28.8	Condition: Regular	06-28-2025 07 00PM EDT	295.2	0.05135	2025/06/28	19 00:00	$	15.16
1649	0	Condition: Regular	06-28-2025 08 00PM EDT	0	0.04215	2025/06/28	20 00:00	$	-
1645	0	Condition: Regular	06-28-2025 09 00PM EDT	0	0.03633	2025/06/28	21 00:00	$	-
1641	0	Condition: Regular	06-28-2025 10 00PM EDT	0	0.03361	2025/06/28	22 00:00	$	-
1637	0	Condition: Regular	06-28-2025 11 00PM EDT	0	0.03301	2025/06/28	23 00:00	$	-
1633	0	Condition: Regular	06-29-2025 12 00AM EDT	0	0.03129	2025/06/28	24 00:00	$	-
1629	0	Condition: Regular	06-29-2025 01 00AM EDT	0	0.02953	2025/06/29	01 00:00	$	-
1625	0	Condition: Regular	06-29-2025 02 00AM EDT	0	0.02736	2025/06/29	02 00:00	$	-
1621	0	Condition: Regular	06-29-2025 03 00AM EDT	0	0.02370	2025/06/29	03 00:00	$	-
1617	0	Condition: Regular	06-29-2025 04 00AM EDT	0	0.02181	2025/06/29	04 00:00	$	-
1613	0	Condition: Regular	06-29-2025 05 00AM EDT	0	0.02071	2025/06/29	05 00:00	$	-
1609	0	Condition: Regular	06-29-2025 06 00AM EDT	0	0.02045	2025/06/29	06 00:00	$	-
1605	13.92	Condition: Regular	06-29-2025 07 00AM EDT	26.88	0.01965	2025/06/29	07 00:00	$	0.53
1601	64.32	Condition: Regular	06-29-2025 08 00AM EDT	181.44	0.01830	2025/06/29	08 00:00	$	3.32
1597	130.56	Condition: Regular	06-29-2025 09 00AM EDT	424.8	0.02061	2025/06/29	09 00:00	$	8.76
1593	194.88	Condition: Regular	06-29-2025 10 00AM EDT	674.4	0.02648	2025/06/29	10 00:00	$	17.86
1589	181.44	Condition: Regular	06-29-2025 11 00AM EDT	870.72	0.03088	2025/06/29	11 00:00	$	26.89
1585	277.92	Condition: Regular	06-29-2025 12 00PM EDT	882.72	0.03436	2025/06/29	12 00:00	$	30.33
1581	291.36	Condition: Regular	06-29-2025 01 00PM EDT	1034.88	0.03798	2025/06/29	13 00:00	$	39.30
1577	102.72	Condition: Regular	06-29-2025 02 00PM EDT	767.52	0.03899	2025/06/29	14 00:00	$	29.93
1573	200.64	Condition: Regular	06-29-2025 03 00PM EDT	759.84	0.03414	2025/06/29	15 00:00	$	25.94
1569	238.08	Condition: Regular	06-29-2025 04 00PM EDT	821.28	0.03917	2025/06/29	16 00:00	$	32.17
1565	188.64	Condition: Regular	06-29-2025 05 00PM EDT	826.56	0.04275	2025/06/29	17 00:00	$	35.34
1561	122.88	Condition: Regular	06-29-2025 06 00PM EDT	570.72	0.07103	2025/06/29	18 00:00	$	40.54
1557	56.16	Condition: Regular	06-29-2025 07 00PM EDT	322.56	0.06881	2025/06/29	19 00:00	$	22.20
1553	0	Condition: Regular	06-29-2025 08 00PM EDT	66.24	0.06498	2025/06/29	20 00:00	$	4.30
1549	0	Condition: Regular	06-29-2025 09 00PM EDT	0	0.04061	2025/06/29	21 00:00	$	-
1545	0	Condition: Regular	06-29-2025 10 00PM EDT	0	0.04391	2025/06/29	22 00:00	$	-
1541	0	Condition: Regular	06-29-2025 11 00PM EDT	0	0.03657	2025/06/29	23 00:00	$	-
1537	0	Condition: Regular	06-30-2025 12 00AM EDT	0	0.03593	2025/06/29	24 00:00	$	-
1533	0	Condition: Regular	06-30-2025 01 00AM EDT	0	0.03364	2025/06/30	01 00:00	$	-
1529	0	Condition: Regular	06-30-2025 02 00AM EDT	0	0.02937	2025/06/30	02 00:00	$	-
1525	0	Condition: Regular	06-30-2025 03 00AM EDT	0	0.02462	2025/06/30	03 00:00	$	-
1521	0	Condition: Regular	06-30-2025 04 00AM EDT	0	0.02237	2025/06/30	04 00:00	$	-
1517	0	Condition: Regular	06-30-2025 05 00AM EDT	0	0.02221	2025/06/30	05 00:00	$	-
1513	0	Condition: Regular	06-30-2025 06 00AM EDT	0	0.02643	2025/06/30	06 00:00	$	-
1509	3.36	Condition: Regular	06-30-2025 07 00AM EDT	9.12	0.03352	2025/06/30	07 00:00	$	0.31
1505	57.12	Condition: Regular	06-30-2025 08 00AM EDT	124.32	0.03387	2025/06/30	08 00:00	$	4.21
1501	84	Condition: Regular	06-30-2025 09 00AM EDT	348.48	0.03564	2025/06/30	09 00:00	$	12.42
1497	162.72	Condition: Regular	06-30-2025 10 00AM EDT	559.68	0.03876	2025/06/30	10 00:00	$	21.69
1493	173.76	Condition: Regular	06-30-2025 11 00AM EDT	682.56	0.04139	2025/06/30	11 00:00	$	28.25
1489	224.64	Condition: Regular	06-30-2025 12 00PM EDT	837.6	0.04976	2025/06/30	12 00:00	$	41.68
1485	195.36	Condition: Regular	06-30-2025 01 00PM EDT	825.12	0.05303	2025/06/30	13 00:00	$	43.76
1481	192.48	Condition: Regular	06-30-2025 02 00PM EDT	913.44	0.05934	2025/06/30	14 00:00	$	54.20
1477	36.96	Condition: Regular	06-30-2025 03 00PM EDT	253.44	0.06263	2025/06/30	15 00:00	$	15.87
1473	0.96	Condition: Regular	06-30-2025 04 00PM EDT	0.96	0.07272	2025/06/30	16 00:00	$	0.07
1469	0	Condition: Regular	06-30-2025 05 00PM EDT	40.32	0.08262	2025/06/30	17 00:00	$	3.33
1465	3.36	Condition: Regular	06-30-2025 06 00PM EDT	3.36	0.09487	2025/06/30	18 00:00	$	0.32
1461	30.72	Condition: Regular	06-30-2025 07 00PM EDT	230.88	0.08121	2025/06/30	19 00:00	$	18.75
1457	0	Condition: Regular	06-30-2025 08 00PM EDT	9.12	0.06797	2025/06/30	20 00:00	$	0.62
1453	0	Condition: Regular	06-30-2025 09 00PM EDT	0	0.05476	2025/06/30	21 00:00	$	-
1449	0	Condition: Regular	06-30-2025 10 00PM EDT	0	0.05035	2025/06/30	22 00:00	$	-
1445	0	Condition: Regular	06-30-2025 11 00PM EDT	0	0.03972	2025/06/30	23 00:00	$	-
1441	0	Condition: Regular	07-01-2025 12 00AM EDT	0	0.03717	2025/06/30	24 00:00	$	-
1437	0	Condition: Regular	07-01-2025 01 00AM EDT	0	0.03639	2025/07/01	01 00:00	$	-
1433	0	Condition: Regular	07-01-2025 02 00AM EDT	0	0.03405	2025/07/01	02 00:00	$	-
1429	0	Condition: Regular	07-01-2025 03 00AM EDT	0	0.02823	2025/07/01	03 00:00	$	-
1425	0	Condition: Regular	07-01-2025 04 00AM EDT	0	0.02662	2025/07/01	04 00:00	$	-
1421	0	Condition: Regular	07-01-2025 05 00AM EDT	0	0.02782	2025/07/01	05 00:00	$	-
1417	0	Condition: Regular	07-01-2025 06 00AM EDT	0	0.03282	2025/07/01	06 00:00	$	-
1413	0	Condition: Regular	07-01-2025 07 00AM EDT	0	0.03713	2025/07/01	07 00:00	$	-
1409	86.4	Condition: Regular	07-01-2025 08 00AM EDT	165.6	0.03744	2025/07/01	08 00:00	$	6.20
1405	83.04	Condition: Regular	07-01-2025 09 00AM EDT	276.96	0.04228	2025/07/01	09 00:00	$	11.71
1401	175.2	Condition: Regular	07-01-2025 10 00AM EDT	523.68	0.04625	2025/07/01	10 00:00	$	24.22
1397	145.92	Condition: Regular	07-01-2025 11 00AM EDT	704.64	0.04655	2025/07/01	11 00:00	$	32.80
1393	161.76	Condition: Regular	07-01-2025 12 00PM EDT	756.48	0.05535	2025/07/01	12 00:00	$	41.87
1389	216.48	Condition: Regular	07-01-2025 01 00PM EDT	666.72	0.07079	2025/07/01	13 00:00	$	47.20
1385	246.24	Condition: Regular	07-01-2025 02 00PM EDT	464.16	0.07194	2025/07/01	14 00:00	$	33.39
1381	0	Condition: Regular	07-01-2025 03 00PM EDT	332.64	0.07151	2025/07/01	15 00:00	$	23.79
1377	4.32	Condition: Regular	07-01-2025 04 00PM EDT	4.32	0.07685	2025/07/01	16 00:00	$	0.33
1373	0.96	Condition: Regular	07-01-2025 05 00PM EDT	16.32	0.07610	2025/07/01	17 00:00	$	1.24
1369	0	Condition: Regular	07-01-2025 06 00PM EDT	0	0.07113	2025/07/01	18 00:00	$	-
1365	0	Condition: Regular	07-01-2025 07 00PM EDT	0	0.06530	2025/07/01	19 00:00	$	-
1361	0	Condition: Regular	07-01-2025 08 00PM EDT	0	0.05708	2025/07/01	20 00:00	$	-
1357	0	Condition: Regular	07-01-2025 09 00PM EDT	0	0.04996	2025/07/01	21 00:00	$	-
1353	0	Condition: Regular	07-01-2025 10 00PM EDT	0	0.04577	2025/07/01	22 00:00	$	-
1349	0	Condition: Regular	07-01-2025 11 00PM EDT	0	0.03692	2025/07/01	23 00:00	$	-
1345	0	Condition: Regular	07-02-2025 12 00AM EDT	0	0.03504	2025/07/01	24 00:00	$	-
1341	0	Condition: Regular	07-02-2025 01 00AM EDT	0	0.03645	2025/07/02	01 00:00	$	-
1337	0	Condition: Regular	07-02-2025 02 00AM EDT	0	0.03028	2025/07/02	02 00:00	$	-
1333	0	Condition: Regular	07-02-2025 03 00AM EDT	0	0.02635	2025/07/02	03 00:00	$	-
1329	0	Condition: Regular	07-02-2025 04 00AM EDT	0	0.02501	2025/07/02	04 00:00	$	-
1325	0	Condition: Regular	07-02-2025 05 00AM EDT	0	0.02493	2025/07/02	05 00:00	$	-
1321	0	Condition: Regular	07-02-2025 06 00AM EDT	0	0.02767	2025/07/02	06 00:00	$	-
1317	0	Condition: Regular	07-02-2025 07 00AM EDT	0	0.03573	2025/07/02	07 00:00	$	-
1313	0	Condition: Regular	07-02-2025 08 00AM EDT	0	0.03501	2025/07/02	08 00:00	$	-
1309	8.64	Condition: Regular	07-02-2025 09 00AM EDT	14.88	0.03571	2025/07/02	09 00:00	$	0.53
1305	92.16	Condition: Regular	07-02-2025 10 00AM EDT	210.24	0.03729	2025/07/02	10 00:00	$	7.84
1301	84	Condition: Regular	07-02-2025 11 00AM EDT	256.32	0.03763	2025/07/02	11 00:00	$	9.65
1297	134.88	Condition: Regular	07-02-2025 12 00PM EDT	480.48	0.03791	2025/07/02	12 00:00	$	18.21
1293	152.64	Condition: Regular	07-02-2025 01 00PM EDT	544.32	0.03233	2025/07/02	13 00:00	$	17.60
1289	219.36	Condition: Regular	07-02-2025 02 00PM EDT	828.96	0.03621	2025/07/02	14 00:00	$	30.02
1285	219.36	Condition: Regular	07-02-2025 03 00PM EDT	794.88	0.03783	2025/07/02	15 00:00	$	30.07
1281	211.68	Condition: Regular	07-02-2025 04 00PM EDT	836.64	0.04300	2025/07/02	16 00:00	$	35.98
1277	189.6	Condition: Regular	07-02-2025 05 00PM EDT	844.8	0.04735	2025/07/02	17 00:00	$	40.00
1273	121.44	Condition: Regular	07-02-2025 06 00PM EDT	567.36	0.05401	2025/07/02	18 00:00	$	30.64
1269	58.56	Condition: Regular	07-02-2025 07 00PM EDT	333.12	0.06339	2025/07/02	19 00:00	$	21.12
1265	2.4	Condition: Regular	07-02-2025 08 00PM EDT	79.2	0.05838	2025/07/02	20 00:00	$	4.62
1261	0	Condition: Regular	07-02-2025 09 00PM EDT	0	0.04365	2025/07/02	21 00:00	$	-
1257	0	Condition: Regular	07-02-2025 10 00PM EDT	0	0.04513	2025/07/02	22 00:00	$	-
1253	0	Condition: Regular	07-02-2025 11 00PM EDT	0	0.03613	2025/07/02	23 00:00	$	-
1249	0	Condition: Regular	07-03-2025 12 00AM EDT	0	0.03701	2025/07/02	24 00:00	$	-
1245	0	Condition: Regular	07-03-2025 01 00AM EDT	0	0.03245	2025/07/03	01 00:00	$	-
1241	0	Condition: Regular	07-03-2025 02 00AM EDT	0	0.02785	2025/07/03	02 00:00	$	-
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1233	0	Condition: Regular	07-03-2025 04 00AM EDT	0	0.02320	2025/07/03	04 00:00	$	-
1229	0	Condition: Regular	07-03-2025 05 00AM EDT	0	0.02300	2025/07/03	05 00:00	$	-
1225	0	Condition: Regular	07-03-2025 06 00AM EDT	0	0.02508	2025/07/03	06 00:00	$	-
1221	1.92	Condition: Regular	07-03-2025 07 00AM EDT	1.92	0.02701	2025/07/03	07 00:00	$	0.05
1217	48.96	Condition: Regular	07-03-2025 08 00AM EDT	120.96	0.02758	2025/07/03	08 00:00	$	3.34
1213	117.6	Condition: Regular	07-03-2025 09 00AM EDT	366.24	0.02968	2025/07/03	09 00:00	$	10.87
1209	173.76	Condition: Regular	07-03-2025 10 00AM EDT	618.72	0.03429	2025/07/03	10 00:00	$	21.22
1205	215.52	Condition: Regular	07-03-2025 11 00AM EDT	729.6	0.03847	2025/07/03	11 00:00	$	28.07
1201	245.76	Condition: Regular	07-03-2025 12 00PM EDT	940.8	0.04181	2025/07/03	12 00:00	$	39.33
1197	258.24	Condition: Regular	07-03-2025 01 00PM EDT	1025.76	0.04969	2025/07/03	13 00:00	$	50.97
1193	241.92	Condition: Regular	07-03-2025 02 00PM EDT	981.12	0.05111	2025/07/03	14 00:00	$	50.15
1189	236.64	Condition: Regular	07-03-2025 03 00PM EDT	957.12	0.05838	2025/07/03	15 00:00	$	55.88
1185	204	Condition: Regular	07-03-2025 04 00PM EDT	868.8	0.05746	2025/07/03	16 00:00	$	49.92
1181	174.24	Condition: Regular	07-03-2025 05 00PM EDT	726.72	0.06722	2025/07/03	17 00:00	$	48.85
1177	116.64	Condition: Regular	07-03-2025 06 00PM EDT	604.32	0.08701	2025/07/03	18 00:00	$	52.58
1173	38.88	Condition: Regular	07-03-2025 07 00PM EDT	302.4	0.07251	2025/07/03	19 00:00	$	21.93
1169	0	Condition: Regular	07-03-2025 08 00PM EDT	13.92	0.06066	2025/07/03	20 00:00	$	0.84
1165	0	Condition: Regular	07-03-2025 09 00PM EDT	0	0.04187	2025/07/03	21 00:00	$	-
1161	0	Condition: Regular	07-03-2025 10 00PM EDT	0	0.03590	2025/07/03	22 00:00	$	-
1157	0	Condition: Regular	07-03-2025 11 00PM EDT	0	0.03672	2025/07/03	23 00:00	$	-
1153	0	Condition: Regular	07-04-2025 12 00AM EDT	0	0.03581	2025/07/03	24 00:00	$	-
1149	0	Condition: Regular	07-04-2025 01 00AM EDT	0	0.03211	2025/07/04	01 00:00	$	-
1145	0	Condition: Regular	07-04-2025 02 00AM EDT	0	0.02601	2025/07/04	02 00:00	$	-

1141	0	Condition: Regular	07-04-2025 03 00AM EDT	0	0.02240	2025/07/04	03 00:00	$	-
1137	0	Condition: Regular	07-04-2025 04 00AM EDT	0	0.02124	2025/07/04	04 00:00	$	-
1133	0	Condition: Regular	07-04-2025 05 00AM EDT	0	0.02036	2025/07/04	05 00:00	$	-
1129	0	Condition: Regular	07-04-2025 06 00AM EDT	0	0.02072	2025/07/04	06 00:00	$	-
1125	10.56	Condition: Regular	07-04-2025 07 00AM EDT	17.76	0.02143	2025/07/04	07 00:00	$	0.38
1121	66.24	Condition: Regular	07-04-2025 08 00AM EDT	166.56	0.02052	2025/07/04	08 00:00	$	3.42
1117	134.4	Condition: Regular	07-04-2025 09 00AM EDT	432.96	0.02065	2025/07/04	09 00:00	$	8.94
1113	195.36	Condition: Regular	07-04-2025 10 00AM EDT	699.36	0.02681	2025/07/04	10 00:00	$	18.75
1109	233.28	Condition: Regular	07-04-2025 11 00AM EDT	879.84	0.02679	2025/07/04	11 00:00	$	23.57
1105	262.56	Condition: Regular	07-04-2025 12 00PM EDT	1016.64	0.03100	2025/07/04	12 00:00	$	31.52
1101	272.64	Condition: Regular	07-04-2025 01 00PM EDT	1081.92	0.03151	2025/07/04	13 00:00	$	34.09
1097	264.96	Condition: Regular	07-04-2025 02 00PM EDT	1080.96	0.02831	2025/07/04	14 00:00	$	30.60
1093	238.08	Condition: Regular	07-04-2025 03 00PM EDT	971.52	0.02686	2025/07/04	15 00:00	$	26.10
1089	229.44	Condition: Regular	07-04-2025 04 00PM EDT	957.12	0.02927	2025/07/04	16 00:00	$	28.01
1085	172.32	Condition: Regular	07-04-2025 05 00PM EDT	780	0.03292	2025/07/04	17 00:00	$	25.68
1081	126.72	Condition: Regular	07-04-2025 06 00PM EDT	593.28	0.04115	2025/07/04	18 00:00	$	24.41
1077	48.96	Condition: Regular	07-04-2025 07 00PM EDT	307.68	0.03720	2025/07/04	19 00:00	$	11.45
1073	0	Condition: Regular	07-04-2025 08 00PM EDT	59.04	0.03294	2025/07/04	20 00:00	$	1.94
1069	0	Condition: Regular	07-04-2025 09 00PM EDT	0	0.02609	2025/07/04	21 00:00	$	-
1065	0	Condition: Regular	07-04-2025 10 00PM EDT	0	0.03158	2025/07/04	22 00:00	$	-
1061	0	Condition: Regular	07-04-2025 11 00PM EDT	0	0.02946	2025/07/04	23 00:00	$	-
1057	0	Condition: Regular	07-05-2025 12 00AM EDT	0	0.03092	2025/07/04	24 00:00	$	-
1053	0	Condition: Regular	07-05-2025 01 00AM EDT	0	0.02297	2025/07/05	01 00:00	$	-
1049	0	Condition: Regular	07-05-2025 02 00AM EDT	0	0.02086	2025/07/05	02 00:00	$	-
1045	0	Condition: Regular	07-05-2025 03 00AM EDT	0	0.01948	2025/07/05	03 00:00	$	-
1041	0	Condition: Regular	07-05-2025 04 00AM EDT	0	0.01841	2025/07/05	04 00:00	$	-
1037	0	Condition: Regular	07-05-2025 05 00AM EDT	0	0.01768	2025/07/05	05 00:00	$	-
1033	0	Condition: Regular	07-05-2025 06 00AM EDT	0	0.01822	2025/07/05	06 00:00	$	-
1029	10.56	Condition: Regular	07-05-2025 07 00AM EDT	24.96	0.01783	2025/07/05	07 00:00	$	0.45
1025	67.68	Condition: Regular	07-05-2025 08 00AM EDT	155.52	0.01820	2025/07/05	08 00:00	$	2.83
1021	116.64	Condition: Regular	07-05-2025 09 00AM EDT	396.48	0.01932	2025/07/05	09 00:00	$	7.66
1017	172.8	Condition: Regular	07-05-2025 10 00AM EDT	628.32	0.02137	2025/07/05	10 00:00	$	13.43
1013	222.24	Condition: Regular	07-05-2025 11 00AM EDT	816.96	0.02399	2025/07/05	11 00:00	$	19.60
1009	245.76	Condition: Regular	07-05-2025 12 00PM EDT	935.04	0.03018	2025/07/05	12 00:00	$	28.22
1005	250.56	Condition: Regular	07-05-2025 01 00PM EDT	994.08	0.03120	2025/07/05	13 00:00	$	31.02
1001	240	Condition: Regular	07-05-2025 02 00PM EDT	946.56	0.03487	2025/07/05	14 00:00	$	33.01
997	257.28	Condition: Regular	07-05-2025 03 00PM EDT	1026.72	0.03654	2025/07/05	15 00:00	$	37.52
993	226.08	Condition: Regular	07-05-2025 04 00PM EDT	952.32	0.03364	2025/07/05	16 00:00	$	32.04
989	182.4	Condition: Regular	07-05-2025 05 00PM EDT	801.12	0.04322	2025/07/05	17 00:00	$	34.62
985	121.92	Condition: Regular	07-05-2025 06 00PM EDT	591.84	0.05098	2025/07/05	18 00:00	$	30.17
981	52.32	Condition: Regular	07-05-2025 07 00PM EDT	314.4	0.05546	2025/07/05	19 00:00	$	17.44
977	0	Condition: Regular	07-05-2025 08 00PM EDT	49.92	0.05949	2025/07/05	20 00:00	$	2.97
973	0	Condition: Regular	07-05-2025 09 00PM EDT	0	0.04286	2025/07/05	21 00:00	$	-
969	0	Condition: Regular	07-05-2025 10 00PM EDT	0	0.03875	2025/07/05	22 00:00	$	-
965	0	Condition: Regular	07-05-2025 11 00PM EDT	0	0.03449	2025/07/05	23 00:00	$	-
961	0	Condition: Regular	07-06-2025 12 00AM EDT	0	0.03251	2025/07/05	24 00:00	$	-
957	0	Condition: Regular	07-06-2025 01 00AM EDT	0	0.02794	2025/07/06	01 00:00	$	-
953	0	Condition: Regular	07-06-2025 02 00AM EDT	0	0.02529	2025/07/06	02 00:00	$	-
949	0	Condition: Regular	07-06-2025 03 00AM EDT	0	0.02094	2025/07/06	03 00:00	$	-
945	0	Condition: Regular	07-06-2025 04 00AM EDT	0	0.02085	2025/07/06	04 00:00	$	-
941	0	Condition: Regular	07-06-2025 05 00AM EDT	0	0.01993	2025/07/06	05 00:00	$	-
937	0	Condition: Regular	07-06-2025 06 00AM EDT	0	0.01981	2025/07/06	06 00:00	$	-
933	13.92	Condition: Regular	07-06-2025 07 00AM EDT	25.92	0.01935	2025/07/06	07 00:00	$	0.50
929	64.32	Condition: Regular	07-06-2025 08 00AM EDT	171.84	0.01950	2025/07/06	08 00:00	$	3.35
925	114.24	Condition: Regular	07-06-2025 09 00AM EDT	374.4	0.02184	2025/07/06	09 00:00	$	8.18
921	182.88	Condition: Regular	07-06-2025 10 00AM EDT	642.72	0.02753	2025/07/06	10 00:00	$	17.69
917	187.68	Condition: Regular	07-06-2025 11 00AM EDT	789.12	0.03348	2025/07/06	11 00:00	$	26.42
913	0	Condition: Regular	07-06-2025 12 00PM EDT	0	0.03573	2025/07/06	12 00:00	$	-
909	0	Condition: Regular	07-06-2025 01 00PM EDT	0	0.03929	2025/07/06	13 00:00	$	-
905	0	Condition: Regular	07-06-2025 02 00PM EDT	0	0.04542	2025/07/06	14 00:00	$	-
901	0	Condition: Regular	07-06-2025 03 00PM EDT	0	0.04382	2025/07/06	15 00:00	$	-
897	0	Condition: Regular	07-06-2025 04 00PM EDT	0	0.05034	2025/07/06	16 00:00	$	-
893	0	Condition: Regular	07-06-2025 05 00PM EDT	0	0.06359	2025/07/06	17 00:00	$	-
889	0	Condition: Regular	07-06-2025 06 00PM EDT	0	0.08576	2025/07/06	18 00:00	$	-
885	0	Condition: Regular	07-06-2025 07 00PM EDT	0	0.09019	2025/07/06	19 00:00	$	-
881	0	Condition: Regular	07-06-2025 08 00PM EDT	0	0.08717	2025/07/06	20 00:00	$	-
877	0	Condition: Regular	07-06-2025 09 00PM EDT	0	0.05820	2025/07/06	21 00:00	$	-
873	0	Condition: Regular	07-06-2025 10 00PM EDT	0	0.05208	2025/07/06	22 00:00	$	-
869	0	Condition: Regular	07-06-2025 11 00PM EDT	0	0.04556	2025/07/06	23 00:00	$	-
865	0	Condition: Regular	07-07-2025 12 00AM EDT	0	0.03722	2025/07/06	24 00:00	$	-
861	0	Condition: Regular	07-07-2025 01 00AM EDT	0	0.03689	2025/07/07	01 00:00	$	-
857	0	Condition: Regular	07-07-2025 02 00AM EDT	0	0.03135	2025/07/07	02 00:00	$	-
853	0	Condition: Regular	07-07-2025 03 00AM EDT	0	0.02739	2025/07/07	03 00:00	$	-
849	0	Condition: Regular	07-07-2025 04 00AM EDT	0	0.02539	2025/07/07	04 00:00	$	-
845	0	Condition: Regular	07-07-2025 05 00AM EDT	0	0.02599	2025/07/07	05 00:00	$	-
841	0	Condition: Regular	07-07-2025 06 00AM EDT	0	0.02952	2025/07/07	06 00:00	$	-
837	0	Condition: Regular	07-07-2025 07 00AM EDT	0	0.03372	2025/07/07	07 00:00	$	-
833	25.44	Condition: Regular	07-07-2025 08 00AM EDT	26.4	0.03631	2025/07/07	08 00:00	$	0.96
829	74.4	Condition: Regular	07-07-2025 09 00AM EDT	196.8	0.03979	2025/07/07	09 00:00	$	7.83
825	57.12	Condition: Regular	07-07-2025 10 00AM EDT	241.44	0.04393	2025/07/07	10 00:00	$	10.61
821	67.68	Condition: Regular	07-07-2025 11 00AM EDT	372	0.04534	2025/07/07	11 00:00	$	16.87
817	109.44	Condition: Regular	07-07-2025 12 00PM EDT	684.48	0.05515	2025/07/07	12 00:00	$	37.75
813	200.64	Condition: Regular	07-07-2025 01 00PM EDT	542.88	0.05803	2025/07/07	13 00:00	$	31.50
809	134.88	Condition: Regular	07-07-2025 02 00PM EDT	587.04	0.06347	2025/07/07	14 00:00	$	37.26
805	197.28	Condition: Regular	07-07-2025 03 00PM EDT	419.52	0.06465	2025/07/07	15 00:00	$	27.12
801	7.68	Condition: Regular	07-07-2025 04 00PM EDT	260.16	0.07334	2025/07/07	16 00:00	$	19.08
797	0	Condition: Regular	07-07-2025 05 00PM EDT	0	0.07678	2025/07/07	17 00:00	$	-
793	6.72	Condition: Regular	07-07-2025 06 00PM EDT	15.84	0.08673	2025/07/07	18 00:00	$	1.37
789	0	Condition: Regular	07-07-2025 07 00PM EDT	2.4	0.07553	2025/07/07	19 00:00	$	0.18
785	0	Condition: Regular	07-07-2025 08 00PM EDT	0	0.05947	2025/07/07	20 00:00	$	-
781	0	Condition: Regular	07-07-2025 09 00PM EDT	0	0.05456	2025/07/07	21 00:00	$	-
777	0	Condition: Regular	07-07-2025 10 00PM EDT	0	0.04685	2025/07/07	22 00:00	$	-
773	0	Condition: Regular	07-07-2025 11 00PM EDT	0	0.03708	2025/07/07	23 00:00	$	-
769	0	Condition: Regular	07-08-2025 12 00AM EDT	0	0.03441	2025/07/07	24 00:00	$	-
765	0	Condition: Regular	07-08-2025 01 00AM EDT	0	0.03657	2025/07/08	01 00:00	$	-
761	0	Condition: Regular	07-08-2025 02 00AM EDT	0	0.03257	2025/07/08	02 00:00	$	-
757	0	Condition: Regular	07-08-2025 03 00AM EDT	0	0.02870	2025/07/08	03 00:00	$	-
753	0	Condition: Regular	07-08-2025 04 00AM EDT	0	0.02700	2025/07/08	04 00:00	$	-
749	0	Condition: Regular	07-08-2025 05 00AM EDT	0	0.02754	2025/07/08	05 00:00	$	-
745	0	Condition: Regular	07-08-2025 06 00AM EDT	0	0.03179	2025/07/08	06 00:00	$	-
741	3.36	Condition: Regular	07-08-2025 07 00AM EDT	3.36	0.03548	2025/07/08	07 00:00	$	0.12
737	48	Condition: Regular	07-08-2025 08 00AM EDT	117.12	0.03684	2025/07/08	08 00:00	$	4.31
733	107.52	Condition: Regular	07-08-2025 09 00AM EDT	345.6	0.03882	2025/07/08	09 00:00	$	13.42
729	163.68	Condition: Regular	07-08-2025 10 00AM EDT	581.76	0.04803	2025/07/08	10 00:00	$	27.94
725	196.8	Condition: Regular	07-08-2025 11 00AM EDT	676.32	0.05065	2025/07/08	11 00:00	$	34.26
721	223.68	Condition: Regular	07-08-2025 12 00PM EDT	857.76	0.06076	2025/07/08	12 00:00	$	52.12
717	240.48	Condition: Regular	07-08-2025 01 00PM EDT	928.32	0.06769	2025/07/08	13 00:00	$	62.84
713	237.12	Condition: Regular	07-08-2025 02 00PM EDT	959.04	0.08012	2025/07/08	14 00:00	$	76.84
709	239.52	Condition: Regular	07-08-2025 03 00PM EDT	859.2	0.08938	2025/07/08	15 00:00	$	76.80
705	128.64	Condition: Regular	07-08-2025 04 00PM EDT	759.36	0.10189	2025/07/08	16 00:00	$	77.37
701	6.72	Condition: Regular	07-08-2025 05 00PM EDT	432.96	0.11362	2025/07/08	17 00:00	$	49.19
697	0	Condition: Regular	07-08-2025 06 00PM EDT	20.16	0.12378	2025/07/08	18 00:00	$	2.50
693	0	Condition: Regular	07-08-2025 07 00PM EDT	0	0.10148	2025/07/08	19 00:00	$	-
689	0	Condition: Regular	07-08-2025 08 00PM EDT	0	0.08332	2025/07/08	20 00:00	$	-
685	0	Condition: Regular	07-08-2025 09 00PM EDT	0	0.05876	2025/07/08	21 00:00	$	-
681	0	Condition: Regular	07-08-2025 10 00PM EDT	0	0.05617	2025/07/08	22 00:00	$	-
677	0	Condition: Regular	07-08-2025 11 00PM EDT	0	0.04811	2025/07/08	23 00:00	$	-
673	0	Condition: Regular	07-09-2025 12 00AM EDT	0	0.04103	2025/07/08	24 00:00	$	-
669	0	Condition: Regular	07-09-2025 01 00AM EDT	0	0.03653	2025/07/09	01 00:00	$	-
665	0	Condition: Regular	07-09-2025 02 00AM EDT	0	0.03223	2025/07/09	02 00:00	$	-
661	0	Condition: Regular	07-09-2025 03 00AM EDT	0	0.02844	2025/07/09	03 00:00	$	-
657	0	Condition: Regular	07-09-2025 04 00AM EDT	0	0.02742	2025/07/09	04 00:00	$	-
653	0	Condition: Regular	07-09-2025 05 00AM EDT	0	0.02785	2025/07/09	05 00:00	$	-
649	0	Condition: Regular	07-09-2025 06 00AM EDT	0	0.03166	2025/07/09	06 00:00	$	-
645	9.12	Condition: Regular	07-09-2025 07 00AM EDT	14.88	0.03341	2025/07/09	07 00:00	$	0.50
641	24.48	Condition: Regular	07-09-2025 08 00AM EDT	78.24	0.03479	2025/07/09	08 00:00	$	2.72
637	110.4	Condition: Regular	07-09-2025 09 00AM EDT	365.76	0.03786	2025/07/09	09 00:00	$	13.85
633	174.24	Condition: Regular	07-09-2025 10 00AM EDT	554.88	0.04087	2025/07/09	10 00:00	$	22.68
629	222.72	Condition: Regular	07-09-2025 11 00AM EDT	772.8	0.04499	2025/07/09	11 00:00	$	34.77
625	172.32	Condition: Regular	07-09-2025 12 00PM EDT	676.8	0.05149	2025/07/09	12 00:00	$	34.85
621	228.48	Condition: Regular	07-09-2025 01 00PM EDT	712.8	0.06604	2025/07/09	13 00:00	$	47.07
617	210.24	Condition: Regular	07-09-2025 02 00PM EDT	768.96	0.06929	2025/07/09	14 00:00	$	53.28
613	206.88	Condition: Regular	07-09-2025 03 00PM EDT	850.08	0.07626	2025/07/09	15 00:00	$	64.83
609	207.36	Condition: Regular	07-09-2025 04 00PM EDT	868.8	0.08096	2025/07/09	16 00:00	$	70.34
605	151.68	Condition: Regular	07-09-2025 05 00PM EDT	709.44	0.09558	2025/07/09	17 00:00	$	67.81
601	42.72	Condition: Regular	07-09-2025 06 00PM EDT	286.56	0.09953	2025/07/09	18 00:00	$	28.52
597	2.4	Condition: Regular	07-09-2025 07 00PM EDT	86.88	0.07670	2025/07/09	19 00:00	$	6.66
593	0	Condition: Regular	07-09-2025 08 00PM EDT	0	0.06637	2025/07/09	20 00:00	$	-
589	0	Condition: Regular	07-09-2025 09 00PM EDT	0	0.05591	2025/07/09	21 00:00	$	-
585	0	Condition: Regular	07-09-2025 10 00PM EDT	0	0.05380	2025/07/09	22 00:00	$	-
581	0	Condition: Regular	07-09-2025 11 00PM EDT	0	0.04556	2025/07/09	23 00:00	$	-
577	0	Condition: Regular	07-10-2025 12 00AM EDT	0	0.03877	2025/07/09	24 00:00	$	-
573	0	Condition: Regular	07-10-2025 01 00AM EDT	0	0.03607	2025/07/10	01 00:00	$	-
569	0	Condition: Regular	07-10-2025 02 00AM EDT	0	0.03259	2025/07/10	02 00:00	$	-
565	0	Condition: Regular	07-10-2025 03 00AM EDT	0	0.02955	2025/07/10	03 00:00	$	-

561	0	Condition: Regular	07-10-2025 04 00AM EDT	0	0.02768	2025/07/10	04 00:00	$	-
557	0	Condition: Regular	07-10-2025 05 00AM EDT	0	0.02748	2025/07/10	05 00:00	$	-
553	0	Condition: Regular	07-10-2025 06 00AM EDT	0	0.03140	2025/07/10	06 00:00	$	-
549	0	Condition: Regular	07-10-2025 07 00AM EDT	0	0.03458	2025/07/10	07 00:00	$	-
545	21.6	Condition: Regular	07-10-2025 08 00AM EDT	49.44	0.03670	2025/07/10	08 00:00	$	1.81
541	9.12	Condition: Regular	07-10-2025 09 00AM EDT	36	0.03833	2025/07/10	09 00:00	$	1.38
537	31.2	Condition: Regular	07-10-2025 10 00AM EDT	108.96	0.03961	2025/07/10	10 00:00	$	4.32
533	133.92	Condition: Regular	07-10-2025 11 00AM EDT	311.52	0.04207	2025/07/10	11 00:00	$	13.11
529	155.04	Condition: Regular	07-10-2025 12 00PM EDT	513.6	0.04581	2025/07/10	12 00:00	$	23.53
525	164.16	Condition: Regular	07-10-2025 01 00PM EDT	695.52	0.04724	2025/07/10	13 00:00	$	32.86
521	86.4	Condition: Regular	07-10-2025 02 00PM EDT	478.56	0.05408	2025/07/10	14 00:00	$	25.88
517	121.44	Condition: Regular	07-10-2025 03 00PM EDT	448.32	0.05034	2025/07/10	15 00:00	$	22.57
513	173.28	Condition: Regular	07-10-2025 04 00PM EDT	604.32	0.05349	2025/07/10	16 00:00	$	32.33
509	48.48	Condition: Regular	07-10-2025 05 00PM EDT	430.56	0.05972	2025/07/10	17 00:00	$	25.71
505	113.28	Condition: Regular	07-10-2025 06 00PM EDT	331.68	0.05732	2025/07/10	18 00:00	$	19.01
501	51.36	Condition: Regular	07-10-2025 07 00PM EDT	332.16	0.04082	2025/07/10	19 00:00	$	13.56
497	0	Condition: Regular	07-10-2025 08 00PM EDT	34.08	0.04345	2025/07/10	20 00:00	$	1.48
493	0	Condition: Regular	07-10-2025 09 00PM EDT	0	0.05214	2025/07/10	21 00:00	$	-
489	0	Condition: Regular	07-10-2025 10 00PM EDT	0	0.05382	2025/07/10	22 00:00	$	-
485	0	Condition: Regular	07-10-2025 11 00PM EDT	0	0.04659	2025/07/10	23 00:00	$	-
481	0	Condition: Regular	07-11-2025 12 00AM EDT	0	0.04015	2025/07/10	24 00:00	$	-
477	0	Condition: Regular	07-11-2025 01 00AM EDT	0	0.03137	2025/07/11	01 00:00	$	-
473	0	Condition: Regular	07-11-2025 02 00AM EDT	0	0.02628	2025/07/11	02 00:00	$	-
469	0	Condition: Regular	07-11-2025 03 00AM EDT	0	0.02249	2025/07/11	03 00:00	$	-
465	0	Condition: Regular	07-11-2025 04 00AM EDT	0	0.02187	2025/07/11	04 00:00	$	-
461	0	Condition: Regular	07-11-2025 05 00AM EDT	0	0.02175	2025/07/11	05 00:00	$	-
457	0	Condition: Regular	07-11-2025 06 00AM EDT	0	0.02455	2025/07/11	06 00:00	$	-
453	0	Condition: Regular	07-11-2025 07 00AM EDT	0	0.02715	2025/07/11	07 00:00	$	-
449	25.92	Condition: Regular	07-11-2025 08 00AM EDT	43.68	0.02983	2025/07/11	08 00:00	$	1.30
445	52.8	Condition: Regular	07-11-2025 09 00AM EDT	155.52	0.03089	2025/07/11	09 00:00	$	4.80
441	196.32	Condition: Regular	07-11-2025 10 00AM EDT	463.2	0.03494	2025/07/11	10 00:00	$	16.18
437	129.6	Condition: Regular	07-11-2025 11 00AM EDT	563.04	0.03878	2025/07/11	11 00:00	$	21.83
433	168.96	Condition: Regular	07-11-2025 12 00PM EDT	718.56	0.04350	2025/07/11	12 00:00	$	31.26
429	215.04	Condition: Regular	07-11-2025 01 00PM EDT	893.28	0.04648	2025/07/11	13 00:00	$	41.52
425	254.88	Condition: Regular	07-11-2025 02 00PM EDT	1000.8	0.05102	2025/07/11	14 00:00	$	51.06
421	249.6	Condition: Regular	07-11-2025 03 00PM EDT	986.4	0.05543	2025/07/11	15 00:00	$	54.68
417	192.96	Condition: Regular	07-11-2025 04 00PM EDT	919.68	0.06505	2025/07/11	16 00:00	$	59.83
413	111.84	Condition: Regular	07-11-2025 05 00PM EDT	724.8	0.07283	2025/07/11	17 00:00	$	52.79
409	131.52	Condition: Regular	07-11-2025 06 00PM EDT	442.08	0.08368	2025/07/11	18 00:00	$	36.99
405	58.08	Condition: Regular	07-11-2025 07 00PM EDT	347.04	0.06847	2025/07/11	19 00:00	$	23.76
401	0	Condition: Regular	07-11-2025 08 00PM EDT	24.48	0.05970	2025/07/11	20 00:00	$	1.46
397	0	Condition: Regular	07-11-2025 09 00PM EDT	0	0.04557	2025/07/11	21 00:00	$	-
393	0	Condition: Regular	07-11-2025 10 00PM EDT	0	0.04829	2025/07/11	22 00:00	$	-
389	0	Condition: Regular	07-11-2025 11 00PM EDT	0	0.04331	2025/07/11	23 00:00	$	-
385	0	Condition: Regular	07-12-2025 12 00AM EDT	0	0.03690	2025/07/11	24 00:00	$	-
381	0	Condition: Regular	07-12-2025 01 00AM EDT	0	0.04256	2025/07/12	01 00:00	$	-
377	0	Condition: Regular	07-12-2025 02 00AM EDT	0	0.03758	2025/07/12	02 00:00	$	-
373	0	Condition: Regular	07-12-2025 03 00AM EDT	0	0.03108	2025/07/12	03 00:00	$	-
369	0	Condition: Regular	07-12-2025 04 00AM EDT	0	0.02980	2025/07/12	04 00:00	$	-
365	0	Condition: Regular	07-12-2025 05 00AM EDT	0	0.02844	2025/07/12	05 00:00	$	-
361	0	Condition: Regular	07-12-2025 06 00AM EDT	0	0.02901	2025/07/12	06 00:00	$	-
357	0	Condition: Regular	07-12-2025 07 00AM EDT	0	0.02842	2025/07/12	07 00:00	$	-
353	33.12	Condition: Regular	07-12-2025 08 00AM EDT	69.12	0.02680	2025/07/12	08 00:00	$	1.85
349	132	Condition: Regular	07-12-2025 09 00AM EDT	333.6	0.03250	2025/07/12	09 00:00	$	10.84
345	118.56	Condition: Regular	07-12-2025 10 00AM EDT	488.64	0.03965	2025/07/12	10 00:00	$	19.37
341	191.52	Condition: Regular	07-12-2025 11 00AM EDT	815.04	0.04237	2025/07/12	11 00:00	$	34.53
337	280.8	Condition: Regular	07-12-2025 12 00PM EDT	889.44	0.04893	2025/07/12	12 00:00	$	43.52
333	282.72	Condition: Regular	07-12-2025 01 00PM EDT	1094.88	0.05716	2025/07/12	13 00:00	$	62.58
329	279.36	Condition: Regular	07-12-2025 02 00PM EDT	1100.64	0.06019	2025/07/12	14 00:00	$	66.25
325	271.68	Condition: Regular	07-12-2025 03 00PM EDT	1063.2	0.06162	2025/07/12	15 00:00	$	65.51
321	127.68	Condition: Regular	07-12-2025 04 00PM EDT	643.68	0.06971	2025/07/12	16 00:00	$	44.88
317	51.84	Condition: Regular	07-12-2025 05 00PM EDT	600.48	0.08073	2025/07/12	17 00:00	$	48.48
313	88.32	Condition: Regular	07-12-2025 06 00PM EDT	405.12	0.07527	2025/07/12	18 00:00	$	30.49
309	38.88	Condition: Regular	07-12-2025 07 00PM EDT	202.08	0.06724	2025/07/12	19 00:00	$	13.59
305	0	Condition: Regular	07-12-2025 08 00PM EDT	43.68	0.07022	2025/07/12	20 00:00	$	3.07
301	0	Condition: Regular	07-12-2025 09 00PM EDT	0	0.04760	2025/07/12	21 00:00	$	-
297	0	Condition: Regular	07-12-2025 10 00PM EDT	0	0.05216	2025/07/12	22 00:00	$	-
293	0	Condition: Regular	07-12-2025 11 00PM EDT	0	0.04841	2025/07/12	23 00:00	$	-
289	0	Condition: Regular	07-13-2025 12 00AM EDT	0	0.04178	2025/07/12	24 00:00	$	-
285	0	Condition: Regular	07-13-2025 01 00AM EDT	0	0.03571	2025/07/13	01 00:00	$	-
281	0	Condition: Regular	07-13-2025 02 00AM EDT	0	0.03071	2025/07/13	02 00:00	$	-
277	0	Condition: Regular	07-13-2025 03 00AM EDT	0	0.02763	2025/07/13	03 00:00	$	-
273	0	Condition: Regular	07-13-2025 04 00AM EDT	0	0.02565	2025/07/13	04 00:00	$	-
269	0	Condition: Regular	07-13-2025 05 00AM EDT	0	0.02482	2025/07/13	05 00:00	$	-
265	0	Condition: Regular	07-13-2025 06 00AM EDT	0	0.02544	2025/07/13	06 00:00	$	-
261	4.8	Condition: Regular	07-13-2025 07 00AM EDT	7.2	0.02334	2025/07/13	07 00:00	$	0.17
257	43.2	Condition: Regular	07-13-2025 08 00AM EDT	113.28	0.02302	2025/07/13	08 00:00	$	2.61
253	106.08	Condition: Regular	07-13-2025 09 00AM EDT	325.44	0.02478	2025/07/13	09 00:00	$	8.06
249	83.52	Condition: Regular	07-13-2025 10 00AM EDT	326.4	0.03038	2025/07/13	10 00:00	$	9.92
245	137.76	Condition: Regular	07-13-2025 11 00AM EDT	520.32	0.03375	2025/07/13	11 00:00	$	17.56
241	239.52	Condition: Regular	07-13-2025 12 00PM EDT	948.48	0.03551	2025/07/13	12 00:00	$	33.68
237	221.28	Condition: Regular	07-13-2025 01 00PM EDT	811.68	0.03630	2025/07/13	13 00:00	$	29.46
233	101.76	Condition: Regular	07-13-2025 02 00PM EDT	666.72	0.03884	2025/07/13	14 00:00	$	25.90
229	160.8	Condition: Regular	07-13-2025 03 00PM EDT	493.44	0.04021	2025/07/13	15 00:00	$	19.84
225	73.44	Condition: Regular	07-13-2025 04 00PM EDT	597.12	0.04279	2025/07/13	16 00:00	$	25.55
221	60.96	Condition: Regular	07-13-2025 05 00PM EDT	342.72	0.04502	2025/07/13	17 00:00	$	15.43
217	84	Condition: Regular	07-13-2025 06 00PM EDT	349.92	0.05814	2025/07/13	18 00:00	$	20.34
213	27.36	Condition: Regular	07-13-2025 07 00PM EDT	151.2	0.05378	2025/07/13	19 00:00	$	8.13
209	0	Condition: Regular	07-13-2025 08 00PM EDT	11.52	0.05447	2025/07/13	20 00:00	$	0.63
205	0	Condition: Regular	07-13-2025 09 00PM EDT	0	0.04205	2025/07/13	21 00:00	$	-
201	0	Condition: Regular	07-13-2025 10 00PM EDT	0	0.04043	2025/07/13	22 00:00	$	-
197	0	Condition: Regular	07-13-2025 11 00PM EDT	0	0.03737	2025/07/13	23 00:00	$	-
193	0	Condition: Regular	07-14-2025 12 00AM EDT	0	0.03464	2025/07/13	24 00:00	$	-
189	0	Condition: Regular	07-14-2025 01 00AM EDT	0	0.03812	2025/07/14	01 00:00	$	-
185	0	Condition: Regular	07-14-2025 02 00AM EDT	0	0.03336	2025/07/14	02 00:00	$	-
181	0	Condition: Regular	07-14-2025 03 00AM EDT	0	0.02695	2025/07/14	03 00:00	$	-
177	0	Condition: Regular	07-14-2025 04 00AM EDT	0	0.02629	2025/07/14	04 00:00	$	-
173	0	Condition: Regular	07-14-2025 05 00AM EDT	0	0.02891	2025/07/14	05 00:00	$	-
169	0	Condition: Regular	07-14-2025 06 00AM EDT	0	0.03384	2025/07/14	06 00:00	$	-
165	2.4	Condition: Regular	07-14-2025 07 00AM EDT	2.4	0.03768	2025/07/14	07 00:00	$	0.09
161	15.84	Condition: Regular	07-14-2025 08 00AM EDT	80.64	0.04041	2025/07/14	08 00:00	$	3.26
157	24.48	Condition: Regular	07-14-2025 09 00AM EDT	132.48	0.04155	2025/07/14	09 00:00	$	5.50
153	101.28	Condition: Regular	07-14-2025 10 00AM EDT	289.92	0.04795	2025/07/14	10 00:00	$	13.90
149	128.16	Condition: Regular	07-14-2025 11 00AM EDT	517.92	0.05308	2025/07/14	11 00:00	$	27.49
145	261.6	Condition: Regular	07-14-2025 12 00PM EDT	686.88	0.05526	2025/07/14	12 00:00	$	37.96
141	192	Condition: Regular	07-14-2025 01 00PM EDT	767.04	0.06148	2025/07/14	13 00:00	$	47.16
137	156	Condition: Regular	07-14-2025 02 00PM EDT	891.84	0.05995	2025/07/14	14 00:00	$	53.47
133	189.12	Condition: Regular	07-14-2025 03 00PM EDT	894.72	0.06817	2025/07/14	15 00:00	$	60.99
129	164.16	Condition: Regular	07-14-2025 04 00PM EDT	500.16	0.07527	2025/07/14	16 00:00	$	37.65
125	0.96	Condition: Regular	07-14-2025 05 00PM EDT	41.28	0.08797	2025/07/14	17 00:00	$	3.63
121	0	Condition: Regular	07-14-2025 06 00PM EDT	0	0.09098	2025/07/14	18 00:00	$	-
117	0	Condition: Regular	07-14-2025 07 00PM EDT	0	0.07702	2025/07/14	19 00:00	$	-
113	0	Condition: Regular	07-14-2025 08 00PM EDT	0	0.06890	2025/07/14	20 00:00	$	-
109	0	Condition: Regular	07-14-2025 09 00PM EDT	0	0.05664	2025/07/14	21 00:00	$	-
105	0	Condition: Regular	07-14-2025 10 00PM EDT	0	0.05096	2025/07/14	22 00:00	$	-
101	0	Condition: Regular	07-14-2025 11 00PM EDT	0	0.04095	2025/07/14	23 00:00	$	-
97	0	Condition: Regular	07-15-2025 12 00AM EDT	0	0.03688	2025/07/14	24 00:00	$	-
93	0	Condition: Regular	07-15-2025 01 00AM EDT	0	0.03738	2025/07/15	01 00:00	$	-
89	0	Condition: Regular	07-15-2025 02 00AM EDT	0	0.03150	2025/07/15	02 00:00	$	-
85	0	Condition: Regular	07-15-2025 03 00AM EDT	0	0.02845	2025/07/15	03 00:00	$	-
81	0	Condition: Regular	07-15-2025 04 00AM EDT	0	0.02630	2025/07/15	04 00:00	$	-
77	0	Condition: Regular	07-15-2025 05 00AM EDT	0	0.02575	2025/07/15	05 00:00	$	-
73	0	Condition: Regular	07-15-2025 06 00AM EDT	0	0.03043	2025/07/15	06 00:00	$	-
69	0	Condition: Regular	07-15-2025 07 00AM EDT	0	0.03767	2025/07/15	07 00:00	$	-
65	16.8	Condition: Regular	07-15-2025 08 00AM EDT	35.04	0.03784	2025/07/15	08 00:00	$	1.33
61	30.24	Condition: Regular	07-15-2025 09 00AM EDT	97.44	0.03812	2025/07/15	09 00:00	$	3.71
57	18.72	Condition: Regular	07-15-2025 10 00AM EDT	150.72	0.04110	2025/07/15	10 00:00	$	6.19
53	24.48	Condition: Regular	07-15-2025 11 00AM EDT	157.44	0.04614	2025/07/15	11 00:00	$	7.26
49	81.6	Condition: Regular	07-15-2025 12 00PM EDT	211.68	0.05759	2025/07/15	12 00:00	$	12.19
45	116.64	Condition: Regular	07-15-2025 01 00PM EDT	354.24	0.05825	2025/07/15	13 00:00	$	20.63
41	164.16	Condition: Regular	07-15-2025 02 00PM EDT	630.24	0.06458	2025/07/15	14 00:00	$	40.70
37	262.08	Condition: Regular	07-15-2025 03 00PM EDT	541.92	0.07110	2025/07/15	15 00:00	$	38.53
33	244.32	Condition: Regular	07-15-2025 04 00PM EDT	690.24	0.09135	2025/07/15	16 00:00	$	63.05
29	199.2	Condition: Regular	07-15-2025 05 00PM EDT	688.8	0.10841	2025/07/15	17 00:00	$	74.67
25	149.28	Condition: Regular	07-15-2025 06 00PM EDT	697.92	0.13079	2025/07/15	18 00:00	$	91.28
21	55.68	Condition: Regular	07-15-2025 07 00PM EDT	370.56	0.11613	2025/07/15	19 00:00	$	43.03
17	0	Condition: Regular	07-15-2025 08 00PM EDT	23.52	0.10552	2025/07/15	20 00:00	$	2.48
13	0	Condition: Regular	07-15-2025 09 00PM EDT	0	0.08126	2025/07/15	21 00:00	$	-
9	0	Condition: Regular	07-15-2025 10 00PM EDT	0	0.07223	2025/07/15	22 00:00	$	-
5	0	Condition: Regular	07-15-2025 11 00PM EDT	0	0.05284	2025/07/15	23 00:00	$	-
1	0	Condition: Regular	07-16-2025 12 00AM EDT	0	0.04753	2025/07/15	24 00:00	$	-
				173,832				$	10,026.56

Excess Generation kWhs	173,832.00	Total Hourly pricing Charge	$ 10,026.56

				Line Loss	2.50%	$ 250.66
				GRT	6.27%	$ 644.38
LMP ID				Total		$ 10,921.60
116472949						



GSA 3/4 (Hourly) Rates
Effective June 1, 2025 through August 31, 2025
cents/kwh

I.

Components (includes Gross Receipts Tax)	Rate GS	Rate PD	Rate HT	Rate EP
Ancillary Services	0.808	0.794	0.762	0.762
Administrative Costs	0.003	0.003	0.003	0.003
E factor (Purchased Generation Adj)	0.215	0.215	0.215	0.215
Working Capital	0.035	0.035	0.035	0.035
Total	1.061	1.047	1.015	1.015

II.

(1+RM) x P ope Factor x Monthly Bill Days / 5 ####### per kW-month assuming PLC = n kW
for Capacity component ABOVE RATE INCLUDES GROSS RECEIPTS TAX

III.

Gross Receipts Tax Factor, w=
for Energy Charges 0.0627 where W1-GRT)= 1+ w
w = GRT/(1-GRT)

IV.

Line Loss Factor, e, for Energy Revenues Before Gross Receipts Tax

summation P_M x = usage /(1 - LL)
where W1 - LL) = 1+ e
e = LL/(1 - LL)

e Equals	
GS	0.0875
PD	0.0688
HT	0.0250
EP	0.0250

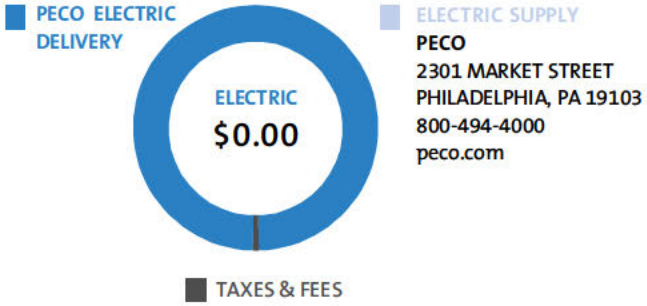
Excess Generation credit			
Administrative Credit	(173,832)	$0.00003	$ (5 21)
Generation Credit	-	LMP	$ (10,921.60)
Ancillary Services Credit	(173,832)	$0.00762	$ (1,324.60)
Purchased Generation Adj. Credit	(173,832)	$0.00215	$ (373.74)
Working Capital Credit	(173,832)	$0.00035	$ (60 84)
Transmission kWh Credit - Must verify	(173,832)	$0.00344	$ (597 98)
PLC kWh credit - Must verify	(173,832)	$0.01263	$ (2,195 50)
Total Credit Calculated			$ (15,479.47)
CC&B calculated REC			$ (15,479.47)
Difference			$ 0 00

EXHIBIT LG-13

peco℠
AN EXELON COMPANY

Name: GREENFIELD MFG CO INC
Account Number: [redacted]
Phone Number: 215-535-4141
Service Address: 9800 Bustleton Ave RS - IN\OUT, Philadelphia

Emergency and Repair
800-841-4141
This is the number to call to report power outages, gas leaks or odors, and safety hazards related to PECO Equipment.



PECO
2301 MARKET STREET
PHILADELPHIA, PA 19103
800-494-4000
peco.com

Billing Summary

Bill Date	12/13/2025
Charges/Credits from previous bill	-$3,373.36
Cancelled Charges	$29,427.04
Refund to Customer	$3,373.37
Total Other Charges	**$29,427.05**
Current Period Charges	
Electric	-$16,197.49
Total New Charges	**($16,197.49)**
Total Amount Due on 12/29/2025	**$13,229.56**

8220-01-0018657-0001-0026405

General Information
Next scheduled meter reading: 01/20/2026

800-494-4000
If you have any questions or concerns, please call 800-494-4000 before the due date. Si tiene alguna pregunta, favor de llamar al numero 800-494-4000 antes de la fecha de vencimiento.

peco.com/service
Customer Self Service - Manage Your Account 24/7
Start, stop and move your service

Account Representative
Your major account rep is Rep Chris Amicone,PECO. If you have any questions about this bill please contact us at 215-841-5515 or by writing PECO, 2301 Market St, S10-1, Philadelphia, PA 19103-1380.

Online: **peco.com**

By Phone: **215-841-5515**

Return only this portion with your check made payable to PECO. Please write your account number on your check.

peco℠
AN EXELON COMPANY
2301 Market Street
Philadelphia, PA 19103-1380

☐ **Enroll in Automatic Payment.** *Complete form on reverse side.*
☐ **Pledge a donation to MEAF.** *Complete form on reverse side.*

Account # [redacted]

877-432-9384
Pay by phone, a convenience fee will apply.

Please pay this amount by 12/29/2025 **$13,229.56**

Payment Amount $ _____ . ___

Pay Today!
peco.com/ebill
Go paperless: receive and pay your bill online.

0018657 01 AB 0.64 **AUTO T7 0 8220 19115-214600 -C01-B1-P18675-I12

GREENFIELD MFG CO INC
9800 BUSTLETON AVE
PHILADELPHIA, PA 19115-2146

PECO - PAYMENT PROCESSING
PO BOX 37632
PHILADELPHIA PA 19101-0629

9696481222010000000536300000000

peco
AN EXELON COMPANY

Account Number: [redacted]

1 Service Address 9800 Bustleton Ave RS - IN\OUT, Philadelphia, PA 19115 **($16,197.49)** Electric Choice ID: [redacted]

Meter Information

Read Dates	Meter Number	Load Type	Reading Type	Meter Reading Previous	Meter Reading Present	Difference	Multiplier X	Total Usage
07/16-08/20	019474971	Out Without Flow Through	Tot kWh	Actual	Actual	30.7467	4800	147584
07/16-08/20	020227585	Out Without Flow Through	Tot kWh	Actual	Actual	28.6807	1920	55067
07/16-08/20	022020354	General Service	GS Off Pk kW	Actual	Actual	0.0140	4800	67.20
07/16-08/20	022020354	General Service	On Pk kW	Actual	Actual	0.0210	4800	100.80
07/16-08/20	022020354	General Service	Pk kW	Actual	Actual	0.0210	4800	100.80
07/16-08/20	022020354	General Service	Tot kWh	Actual	Actual	2.9329	4800	14078
07/16-08/20	022020356	General Service	GS Off Pk kW	Actual	Actual	0.0110	1920	21.12
07/16-08/20	022020356	General Service	On Pk kW	Actual	Actual	0.0140	1920	26.88
07/16-08/20	022020356	General Service	Pk kW	Actual	Actual	0.0140	1920	26.88
07/16-08/20	022020356	General Service	Tot kWh	Actual	Actual	4.3260	1920	8306

Distribution kW - **Measured : 128** Transmission kW - **Measured : 128** Generation kW - **Measured : 128**

Total kWh Used: 22,384

ELECTRIC HIGH TENSION SERVICE 100KW-500KW

Service Period 07/16/2025 to 08/20/2025 - 35 days

PECO ELECTRIC DELIVERY			**$1,263.77**
Customer Charge			383.13
Distribution Charges	128 kW	X 7.12000	911.36
High Voltage Discount	128 kW	X -0.24000	-30.72
PECO ELECTRIC SUPPLY			**-$17,482.01**
Administrative Charge	22,384 kWh	X 0.00003	0.67
Generation Charges	22,384 kWh		886.49
Ancillary Charge	22,384 kWh	X 0.00762	170.57
Purchased Generation Adj.	22,384 kWh	X 0.00215	48.13
Working Capital Charge	22,384 kWh	X 0.00035	7.83
Transmission Charges	128 kW	X 1.69000	216.32
Renewable Energy Credit			-18,812.02
TAXES & FEES			**$20.75**
Sales Tax			20.75
Total Current Charges			**-$16,197.49**

Shopping Information Box

When shopping for a competitive electric/natural gas supplier, please provide the following:

Electric Choice ID: [redacted]
Electric Rate: Electric High Tension Service 100kW-500kW

If you are purchasing the energy you use from a competitive supplier, it is important to understand the terms of your contract and expiration date.

Message Center

From PECO:

5.90% estimated Gross Receipt Tax of $-956.88 included in new charges.

Your estimated electric price to compare adder is $0 per kWh, which includes ancillary charges and the purchased generation adjustment but excludes energy and capacity. This may change in March, June, September and December. For more information and supplier offers visit **PAPowerSwitch.com**.

Your Previous Banked Distribution kWh is 314722. Your Current Change in Banked Distribution kWh is 180266. Your current Adjustment to Banked Distribution kWh due to settlement is 0. Your Remaining Banked Distribution kWh is 494989.

Corrected Bill

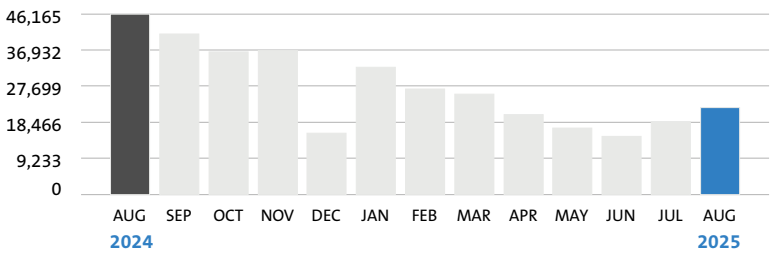
8220-01-0018657-0001-0026405

peco℠
AN EXELON COMPANY

Account Number: [redacted]

Your Usage Profile

ANNUAL ELECTRIC USAGE



peco.com/WaysToSave
Save energy and money

Period	Usage	Avg Daily Usage	Days	Avg Daily Temp
Current Month	22,385	639.60	35	79
Last Month	18,731	624.30	30	82
Last Year	46,165	1,591.90	29	79

Avg kWh per Month 25,803
Total Annual kWh Usage 309,631

8220-01-0018657-0002-0026406

Ways to Pay

Online
Visit **peco.com/paybill** where you can enroll in AutoPay, or make a one-time payment using your credit card or bank account.

Mobile App
Download **the PECO mobile app** for your Apple or Android device for the quickest and easiest way to manage your account and pay bill with one swipe of the finger.

Mail
Mail checks payable to PECO and write your account # on your check. Make sure to include the tear-off portion of your bill at the bottom of page 1.

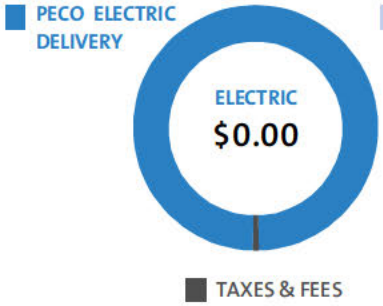
Phone
Call **877-432-9384** to make a payment with a credit card, debit card, or your bank account.*

** Fees apply for card & phone payments.*
No fees apply when you create a PECO My Account and pay using your bank account

peco℠
AN EXELON COMPANY

Name: GREENFIELD MFG CO INC
Account Number: [redacted]
Phone Number: 215-535-4141
Service Address: 9800 Bustleton Ave RS - IN\OUT, Philadelphia

Emergency and Repair
800-841-4141
This is the number to call to report power outages, gas leaks or odors, and safety hazards related to PECO Equipment.



PECO
2301 MARKET STREET
PHILADELPHIA, PA 19103
800-494-4000
peco.com

Billing Summary

Bill Date	12/15/2025
Charges/Credits from previous bill	$13,229.56
Total Other Charges	**$13,229.56**
Current Period Charges	
Electric	-$6,254.69
Total New Charges	**($6,254.69)**
Total Amount Due on 12/31/2025	**$6,974.87**

General Information

Next scheduled meter reading: 01/20/2026

800-494-4000

If you have any questions or concerns, please call 800-494-4000 before the due date. Si tiene alguna pregunta, favor de llamar al numero 800-494-4000 antes de la fecha de vencimiento.

peco.com/service

Customer Self Service - Manage Your Account 24/7
Start, stop and move your service

Account Representative

Your major account rep is Rep Chris Amicone,PECO. If you have any questions about this bill please contact us at 215-841-5515 or by writing PECO, 2301 Market St, S10-1, Philadelphia, PA 19103-1380.

Online: **peco.com**

By Phone: **215-841-5515**

8187-02-0015880-0001-0005841

Return only this portion with your check made payable to PECO. Please write your account number on your check.

peco℠
AN EXELON COMPANY
2301 Market Street
Philadelphia, PA 19103-1380

☐ Enroll in Automatic Payment. *Complete form on reverse side.*
☐ Pledge a donation to MEAF. *Complete form on reverse side.*

Account # [redacted]

877-432-9384
Pay by phone, a convenience fee will apply.

Please pay this amount by 12/31/2025 **$6,974.87**

Payment Amount $ _____ . ____

Pay Today!

peco.com/ebill
Go paperless: receive and pay your bill online.

0015880 01 AB 0.64 **AUTO T0 0 8187 19115-214600 -C02-B1-P15895-I1

GREENFIELD MFG CO INC
9800 BUSTLETON AVE
PHILADELPHIA, PA 19115-2146

PECO - PAYMENT PROCESSING
PO BOX 37629
PHILADELPHIA PA 19101-0629

9696481222010625469536569748 74

peco
AN EXELON COMPANY

Account Number: [redacted]

1 Service Address 9800 Bustleton Ave RS - IN\OUT, Philadelphia, PA 19115 **($6,254.69)** Electric Choice ID: [redacted]

Meter Information

Read Dates	Meter Number	Load Type	Reading Type	Meter Reading Previous	Meter Reading Present	Difference	Multiplier X	Total Usage
08/20-09/19	019474971	Out Without Flow Through	Tot kWh	Actual	Actual	24.3885	4800	117065
08/20-09/19	020227585	Out Without Flow Through	Tot kWh	Actual	Actual	22.2328	1920	42687
08/20-09/19	022020354	General Service	GS Off Pk kW	Actual	Actual	0.0120	4800	57.60
08/20-09/19	022020354	General Service	On Pk kW	Actual	Actual	0.0120	4800	57.60
08/20-09/19	022020354	General Service	Pk kW	Actual	Actual	0.0120	4800	57.60
08/20-09/19	022020354	General Service	Tot kWh	Actual	Actual	2.3760	4800	11405
08/20-09/19	022020356	General Service	GS Off Pk kW	Actual	Actual	0.0130	1920	24.96
08/20-09/19	022020356	General Service	On Pk kW	Actual	Actual	0.0120	1920	23.04
08/20-09/19	022020356	General Service	Pk kW	Actual	Actual	0.0130	1920	24.96
08/20-09/19	022020356	General Service	Tot kWh	Actual	Actual	4.3286	1920	8311

Distribution kW - **Measured : 81** Transmission kW - **Measured : 81** Generation kW - **Measured : 81**

Total kWh Used: 19,716

ELECTRIC HIGH TENSION SERVICE 100KW-500KW

Service Period 08/20/2025 to 09/19/2025 - 30 days

PECO ELECTRIC DELIVERY			**$946.37**
Customer Charge			389.57
Distribution Charges	81 kW	X 7.12000	576.72
High Voltage Discount	83 kW	X -0.24000	-19.92
PECO ELECTRIC SUPPLY			**-$7,215.17**
Administrative Charge	19,716 kWh	X 0.00003	0.59
Generation Charges	19,716 kWh		517.97
Ancillary Charge	19,716 kWh	X 0.00533	105.09
Purchased Generation Adj.	19,716 kWh	X 0.00234	46.14
Working Capital Charge	19,716 kWh	X 0.00035	6.90
Transmission Charges	83 kW	X 1.69000	140.27
Renewable Energy Credit			-8,032.13
TAXES & FEES			**$14.11**
Sales Tax			14.11
Total Current Charges			**-$6,254.69**

Shopping Information Box

When shopping for a competitive electric/natural gas supplier, please provide the following:

Electric Choice ID: [redacted]
Electric Rate: Electric High Tension Service 100kW-500kW

If you are purchasing the energy you use from a competitive supplier, it is important to understand the terms of your contract and expiration date.

Message Center

From PECO:

5.90% estimated Gross Receipt Tax of $-369.86 included in new charges.

Your estimated electric price to compare adder is $0 per kWh, which includes ancillary charges and the purchased generation adjustment but excludes energy and capacity. This may change in March, June, September and December. For more information and supplier offers visit **PAPowerSwitch.com**.

Your Previous Banked Distribution kWh is 494989. Your Current Change in Banked Distribution kWh is 140036. Your current Adjustment to Banked Distribution kWh due to settlement is 0. Your Remaining Banked Distribution kWh is 635026.

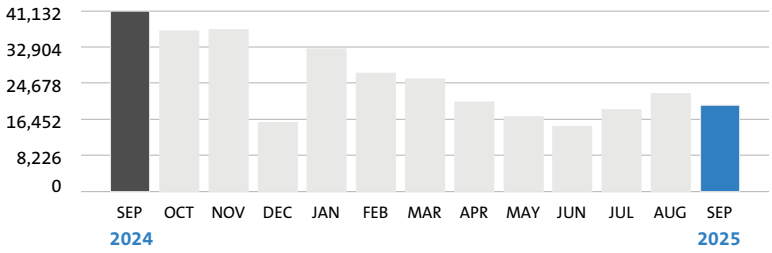
8187-02-0015880-0001-0005842

peco℠
AN EXELON COMPANY

Account Number: [redacted]

Your Usage Profile

ANNUAL ELECTRIC USAGE



peco.com/WaysToSave
Save energy and money

Period	Usage	Avg Daily Usage	Days	Avg Daily Temp
Current Month	19,716	657.20	30	71
Last Month	22,385	639.60	35	83
Last Year	41,132	1,371.10	30	72

Avg kWh per Month 24,018
Total Annual kWh Usage 288,215

8187-02-0015880-0002-0005842

Ways to Pay

Online

Visit **peco.com/paybill** where you can enroll in AutoPay, or make a one-time payment using your credit card or bank account.

Mobile App

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Phone

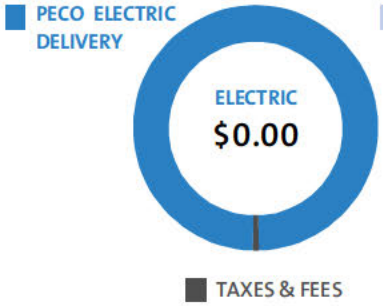
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** Fees apply for card & phone payments.*
No fees apply when you create a PECO My Account and pay using your bank account

peco℠
AN EXELON COMPANY

Name: GREENFIELD MFG CO INC
Account Number: [redacted]
Phone Number: 215-535-4141
Service Address: 9800 Bustleton Ave RS - IN\OUT, Philadelphia

Emergency and Repair
800-841-4141
This is the number to call to report power outages, gas leaks or odors, and safety hazards related to PECO Equipment.



PECO
2301 MARKET STREET
PHILADELPHIA, PA 19103
800-494-4000
peco.com

Billing Summary

Bill Date	12/16/2025
Charges/Credits from previous bill	$2,016.53
Total Other Charges	**$2,016.53**
Current Period Charges	
Electric	-$2,727.38
Total New Charges	**($2,727.38)**
No Payment is Due	**$0.00**

Your remaining excess credit is $710.85

General Information

Next scheduled meter reading: 01/20/2026

800-494-4000
If you have any questions or concerns, please call 800-494-4000 before the due date. Si tiene alguna pregunta, favor de llamar al numero 800-494-4000 antes de la fecha de vencimiento.

peco.com/service
Customer Self Service - Manage Your Account 24/7
Start, stop and move your service

Account Representative

Your major account rep is Rep Chris Amicone,PECO. If you have any questions about this bill please contact us at 215-841-5515 or by writing PECO, 2301 Market St, S10-1, Philadelphia, PA 19103-1380.

8188-02-0019070-0001-0007173

Online: peco.com

By Phone: 215-841-5515

Return only this portion with your check made payable to PECO. Please write your account number on your check.

peco℠
AN EXELON COMPANY
2301 Market Street
Philadelphia, PA 19103-1380

☐ Enroll in Automatic Payment. *Complete form on reverse side.*
☐ Pledge a donation to MEAF. *Complete form on reverse side.*

Account # [redacted]
877-432-9384
Pay by phone, a convenience fee will apply.

No Payment is Due **$0.00**

Payment Amount $ _____ . ___

Pay Today!

peco.com/ebill
Go paperless: receive and pay your bill online.

0019070 01 AB 0.64 **AUTO T3 0 8188 19115-214600 -C02-B1-P19089-I1

GREENFIELD MFG CO INC
9800 BUSTLETON AVE
PHILADELPHIA, PA 19115-2146

PECO - PAYMENT PROCESSING
PO BOX 37629
PHILADELPHIA PA 19101-0629

9696481222010000000600200000003

peco
AN EXELON COMPANY

Account Number: [redacted]

1 Service Address 9800 Bustleton Ave RS - IN\OUT, Philadelphia, PA 19115 **($2,727.38)** Electric Choice ID: [redacted]

Meter Information

Read Dates	Meter Number	Load Type	Reading Type	Meter Reading Previous	Meter Reading Present	Difference	Multiplier X	Total Usage
10/21-11/19	019474971	Out Without Flow Through	Tot kWh	Actual	Actual	12.7396	4800	61150
10/21-11/19	020227585	Out Without Flow Through	Tot kWh	Actual	Actual	11.2380	1920	21577
10/21-11/19	022020354	General Service	GS Off Pk kW	Actual	Actual	0.0190	4800	91.20
10/21-11/19	022020354	General Service	On Pk kW	Actual	Actual	0.0200	4800	96.00
10/21-11/19	022020354	General Service	Pk kW	Actual	Actual	0.0200	4800	96.00
10/21-11/19	022020354	General Service	Tot kWh	Actual	Actual	2.6421	4800	12682
10/21-11/19	022020356	General Service	GS Off Pk kW	Actual	Actual	0.0130	1920	24.96
10/21-11/19	022020356	General Service	On Pk kW	Actual	Actual	0.0140	1920	26.88
10/21-11/19	022020356	General Service	Pk kW	Actual	Actual	0.0140	1920	26.88
10/21-11/19	022020356	General Service	Tot kWh	Actual	Actual	4.6781	1920	8982

Distribution kW - **Measured : 123** Transmission kW - **Measured : 123** Generation kW - **Measured : 123**

Total kWh Used: 21,664

ELECTRIC HIGH TENSION SERVICE 100KW-500KW

Service Period 10/21/2025 to 11/19/2025 - 29 days

PECO ELECTRIC DELIVERY			**$1,229.37**
Customer Charge			383.13
Distribution Charges	123 kW	X 7.12000	875.76
High Voltage Discount	123 kW	X -0.24000	-29.52
PECO ELECTRIC SUPPLY			**-$3,978.47**
Administrative Charge	21,663 kWh	X 0.00003	0.65
Generation Charges	21,663 kWh		1,103.83
Ancillary Charge	21,663 kWh	X 0.00533	115.46
Purchased Generation Adj.	21,663 kWh	X 0.00234	50.69
Working Capital Charge	21,663 kWh	X 0.00035	7.58
Transmission Charges	123 kW	X 1.69000	207.87
Renewable Energy Credit			-5,464.55
TAXES & FEES			**$21.72**
Sales Tax			21.72
Total Current Charges			**-$2,727.38**

Shopping Information Box

When shopping for a competitive electric/natural gas supplier, please provide the following:

Electric Choice ID: [redacted]
Electric Rate: Electric High Tension Service 100kW-500kW

If you are purchasing the energy you use from a competitive supplier, it is important to understand the terms of your contract and expiration date.

Message Center

From PECO:

5.90% estimated Gross Receipt Tax of $-162.20 included in new charges.

Your estimated electric price to compare adder is $0 per kWh, which includes ancillary charges and the purchased generation adjustment but excludes energy and capacity. This may change in March, June, September and December. For more information and supplier offers visit **PAPowerSwitch.com**.

Your Previous Banked Distribution kWh is 745174. Your Current Change in Banked Distribution kWh is 61063. Your current Adjustment to Banked Distribution kWh due to settlement is 0. Your Remaining Banked Distribution kWh is 806237.

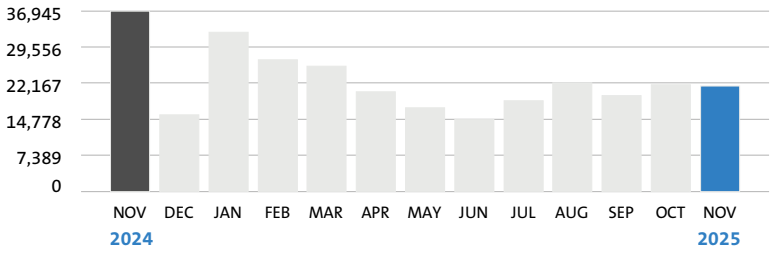
8188-02-0019070-0001-0007174

peco℠
AN EXELON COMPANY

Account Number: [redacted]

Your Usage Profile

ANNUAL ELECTRIC USAGE



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Save energy and money

Period	Usage	Avg Daily Usage	Days	Avg Daily Temp
Current Month	21,664	747.00	29	53
Last Month	21,954	686.10	32	71
Last Year	36,945	1,191.80	31	57

Avg kWh per Month 21,523
Total Annual kWh Usage 258,273

8188-02-0019070-0002-0007174

Ways to Pay

Online
Visit **peco.com/paybill** where you can enroll in AutoPay, or make a one-time payment using your credit card or bank account.

Mobile App
Download **the PECO mobile app** for your Apple or Android device for the quickest and easiest way to manage your account and pay bill with one swipe of the finger.

Mail
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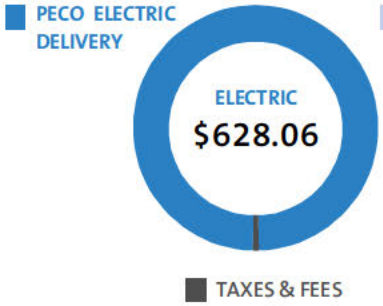
Phone
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** Fees apply for card & phone payments.*
No fees apply when you create a PECO My Account and pay using your bank account

peco℠
AN EXELON COMPANY

Name: GREENFIELD MFG CO INC
Account Number: [redacted]
Phone Number: 215-535-4141
Service Address: 9800 Bustleton Ave RS - IN\OUT, Philadelphia

Emergency and Repair
800-841-4141
This is the number to call to report power outages, gas leaks or odors, and safety hazards related to PECO Equipment.



PECO
2301 MARKET STREET
PHILADELPHIA, PA 19103
800-494-4000
peco.com

Billing Summary

Bill Date	12/18/2025
Charges/Credits from previous bill	-$710.85
Total Other Charges	**-$710.85**
Current Period Charges	
Electric	$628.06
Total New Charges	**$628.06**
No Payment is Due	**$0.00**

Your remaining excess credit is $82.79

General Information

Next scheduled meter reading: 01/20/2026

800-494-4000

If you have any questions or concerns, please call 800-494-4000 before the due date. Si tiene alguna pregunta, favor de llamar al numero 800-494-4000 antes de la fecha de vencimiento.

peco.com/service

Customer Self Service - Manage Your Account 24/7
Start, stop and move your service

Account Representative

Your major account rep is Rep Chris Amicone,PECO. If you have any questions about this bill please contact us at 215-841-5515 or by writing PECO, 2301 Market St, S10-1, Philadelphia, PA 19103-1380.

8190-02-0018802-0001-0006841

Online: peco.com

By Phone: 215-841-5515

Return only this portion with your check made payable to PECO. Please write your account number on your check.

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AN EXELON COMPANY
2301 Market Street
Philadelphia, PA 19103-1380

☐ Enroll in Automatic Payment. *Complete form on reverse side.*
☐ Pledge a donation to MEAF. *Complete form on reverse side.*

Account # [redacted]

877-432-9384
Pay by phone, a convenience fee will apply.

No Payment is Due **$0.00**

Payment Amount $ _____ . ___

Pay Today!

peco.com/ebill
Go paperless: receive and pay your bill online.

0018802 01 AB 0.64 **AUTO T3 0 8190 19115-214600 -C02-B1-P18820-I1

GREENFIELD MFG CO INC
9800 BUSTLETON AVE
PHILADELPHIA, PA 19115-2146

PECO - PAYMENT PROCESSING
PO BOX 37629
PHILADELPHIA PA 19101-0629

96964812220100000006005000006

peco
AN EXELON COMPANY

Account Number: [redacted]

1 Service Address 9800 Bustleton Ave RS - IN\OUT, Philadelphia, PA 19115 **$628.06** Electric Choice ID: [redacted]

Meter Information

Read Dates	Meter Number	Load Type	Reading Type	Meter Reading Previous	Meter Reading Present	Difference	Multiplier X	Total Usage
11/19-12/17	019474971	Out Without Flow Through	Tot kWh	Actual	Actual	6.2000	4800	29760
11/19-12/17	020227585	Out Without Flow Through	Tot kWh	Actual	Actual	5.5005	1920	10561
11/19-12/17	022020354	General Service	GS Off Pk kW	Actual	Actual	0.0180	4800	86.40
11/19-12/17	022020354	General Service	On Pk kW	Actual	Actual	0.0210	4800	100.80
11/19-12/17	022020354	General Service	Pk kW	Actual	Actual	0.0210	4800	100.80
11/19-12/17	022020354	General Service	Tot kWh	Actual	Actual	3.6540	4800	17539
11/19-12/17	022020356	General Service	GS Off Pk kW	Actual	Actual	0.0150	1920	28.80
11/19-12/17	022020356	General Service	On Pk kW	Actual	Actual	0.0150	1920	28.80
11/19-12/17	022020356	General Service	Pk kW	Actual	Actual	0.0150	1920	28.80
11/19-12/17	022020356	General Service	Tot kWh	Actual	Actual	5.8573	1920	11246

Distribution kW - **Measured : 130** Transmission kW - **Measured : 130** Generation kW - **Measured : 130**

Total kWh Used: 28,785

ELECTRIC HIGH TENSION SERVICE 100KW-500KW

Service Period 11/19/2025 to 12/17/2025 - 28 days

PECO ELECTRIC DELIVERY			**$1,277.53**
Customer Charge			383.13
Distribution Charges	130 kW	X 7.12000	925.60
High Voltage Discount	130 kW	X -0.24000	-31.20
PECO ELECTRIC SUPPLY			**-$679.15**
Administrative Charge	28,786 kWh	X 0.00006	1.73
Generation Charges	28,786 kWh		1,985.44
Ancillary Charge	28,786 kWh	X 0.00637	183.37
Purchased Generation Adj.	28,786 kWh	X 0.00180	51.81
Working Capital Charge	28,786 kWh	X 0.00035	10.08
Transmission Charges	130 kW	X 0.66393	86.31
Transmission Charges	130 kW	X 0.87429	113.66
Renewable Energy Credit			-3,111.55
TAXES & FEES			**$29.68**
Sales Tax			29.68
Total Current Charges			**$628.06**

Shopping Information Box

When shopping for a competitive electric/natural gas supplier, please provide the following:

Electric Choice ID: [redacted]
Electric Rate: Electric High Tension Service 100kW-500kW

If you are purchasing the energy you use from a competitive supplier, it is important to understand the terms of your contract and expiration date.

Message Center

From PECO:

5.90% estimated Gross Receipt Tax of $35.30 included in new charges.

Your estimated electric price to compare adder is $0 per kWh, which includes ancillary charges and the purchased generation adjustment but excludes energy and capacity. This may change in March, June, September and December. For more information and supplier offers visit **PAPowerSwitch.com**.

Your Previous Banked Distribution kWh is 806237. Your Current Change in Banked Distribution kWh is 11535. Your current Adjustment to Banked Distribution kWh due to settlement is 0. Your Remaining Banked Distribution kWh is 817772.

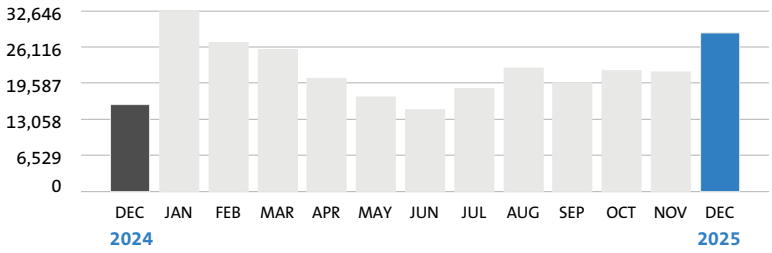
8190-02-0018802-0001-0006841

peco℠
AN EXELON COMPANY

Account Number: [redacted]

Your Usage Profile

ANNUAL ELECTRIC USAGE



peco.com/WaysToSave
Save energy and money

Period	Usage	Avg Daily Usage	Days	Avg Daily Temp
Current Month	28,786	1,028.10	28	39
Last Month	21,664	747.00	29	56
Last Year	15,757	525.20	30	43

Avg kWh per Month	**22,609**
Total Annual kWh Usage	**271,302**

8190-02-0018802-0002-0006842

Ways to Pay

Online

Visit **peco.com/paybill** where you can enroll in AutoPay, or make a one-time payment using your credit card or bank account.

Mobile App

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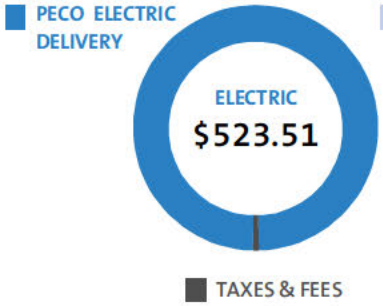
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** Fees apply for card & phone payments.*
No fees apply when you create a PECO My Account and pay using your bank account

peco
AN EXELON COMPANY

Name: GREENFIELD MFG CO INC
Account Number: [redacted]
Phone Number: 215-535-4141
Service Address: 9800 Bustleton Ave RS - IN\OUT, Philadelphia

Emergency and Repair
800-841-4141
This is the number to call to report power outages, gas leaks or odors, and safety hazards related to PECO Equipment.



PECO
2301 MARKET STREET
PHILADELPHIA, PA 19103
800-494-4000
peco.com

Billing Summary

Bill Date	12/26/2025
Charges/Credits from previous bill	-$82.79
Cancelled Charges	-$628.06
Total Other Charges	**-$710.85**
Current Period Charges	
Electric	$523.51
Total New Charges	**$523.51**
No Payment is Due	**$0.00**

Your remaining excess credit is $187.34

General Information

Next scheduled meter reading: 01/20/2026

800-494-4000

If you have any questions or concerns, please call 800-494-4000 before the due date. Si tiene alguna pregunta, favor de llamar al numero 800-494-4000 antes de la fecha de vencimiento.

peco.com/service

Customer Self Service - Manage Your Account 24/7
Start, stop and move your service

Account Representative

Your major account rep is Rep Chris Amicone,PECO. If you have any questions about this bill please contact us at 215-841-5515 or by writing PECO, 2301 Market St, S10-1, Philadelphia, PA 19103-1380.

Online: **peco.com**

By Phone: **215-841-5515**

8194-02-0007906-0001-0016380

Return only this portion with your check made payable to PECO. Please write your account number on your check.

peco
AN EXELON COMPANY
2301 Market Street
Philadelphia, PA 19103-1380

☐ Enroll in Automatic Payment. *Complete form on reverse side.*
☐ Pledge a donation to MEAF. *Complete form on reverse side.*

Account # [redacted]

877-432-9384
Pay by phone, a convenience fee will apply.

No Payment is Due **$0.00**

Payment Amount $ _____ . ___

Pay Today!

peco.com/ebill
Go paperless: receive and pay your bill online.

0007906 01 AV 0.59 **AUTO T9 0 8194 19115-214600 -C02-B1-P07913-I1

GREENFIELD MFG CO INC
9800 BUSTLETON AVE
PHILADELPHIA, PA 19115-2146

PECO - PAYMENT PROCESSING
PO BOX 37629
PHILADELPHIA PA 19101-0629

9696481222010000000601200000002

peco
AN EXELON COMPANY

Account Number: [redacted]

1 Service Address 9800 Bustleton Ave RS - IN\OUT, Philadelphia, PA 19115 **$523.51** Electric Choice ID: [redacted]

Meter Information

Read Dates	Meter Number	Load Type	Reading Type	Meter Reading Previous	Meter Reading Present	Difference	Multiplier X	Total Usage
11/19-12/11	019474971	Out Without Flow Through	Tot kWh	Actual	Actual	5.2079	4800	24998
11/19-12/11	020227585	Out Without Flow Through	Tot kWh	Actual	Actual	4.6036	1920	8839
11/19-12/11	022020354	General Service	GS Off Pk kW	Actual	Actual	76.80		76.80
11/19-12/11	022020354	General Service	On Pk kW	Actual	Actual	100.80		100.80
11/19-12/11	022020354	General Service	Pk kW	Actual	Actual	100.80		100.80
11/19-12/11	022020354	General Service	Tot kWh	Actual	Actual	12780		12780
11/19-12/11	022020356	General Service	GS Off Pk kW	Actual	Actual	0.0150	1920	28.80
11/19-12/11	022020356	General Service	On Pk kW	Actual	Actual	0.0130	1920	24.96
11/19-12/11	022020356	General Service	Pk kW	Actual	Actual	0.0150	1920	28.80
11/19-12/11	022020356	General Service	Tot kWh	Actual	Actual	4.3151	1920	8285
12/11-12/17	019474971	Out Without Flow Through	Tot kWh	Actual	Actual	0.9921	4800	4762
12/11-12/17	020227585	Out Without Flow Through	Tot kWh	Actual	Actual	0.8969	1920	1722
12/11-12/17	022020354	General Service	GS Off Pk kW	Actual	Actual	0.0180	4800	86.40
12/11-12/17	022020354	General Service	On Pk kW	Actual	Actual	0.0210	4800	100.80
12/11-12/17	022020354	General Service	Pk kW	Actual	Actual	0.0210	4800	100.80
12/11-12/17	022020354	General Service	Tot kWh	Actual	Actual	0.9915	4800	4759
12/11-12/17	022020356	General Service	GS Off Pk kW	Actual	Actual	0.0150	1920	28.80
12/11-12/17	022020356	General Service	On Pk kW	Actual	Actual	0.0150	1920	28.80
12/11-12/17	022020356	General Service	Pk kW	Actual	Actual	0.0150	1920	28.80
12/11-12/17	022020356	General Service	Tot kWh	Actual	Actual	1.5427	1920	2962

Distribution kW - **Measured : 126** Transmission kW - **Measured : 126** Generation kW - **Measured : 126**

Total kWh Used: 49,851

ELECTRIC HIGH TENSION SERVICE 100KW-500KW

Service Period 11/19/2025 to 12/11/2025 - 22 days

PECO ELECTRIC DELIVERY			**$908.62**
Customer Charge			280.97
Distribution Charges	126 kW	X 5.22133	657.89
High Voltage Discount	126 kW	X -0.24000	-30.24
PECO ELECTRIC SUPPLY			**-$946.11**
Administrative Charge	21,065 kWh	X 0.00006	1.26
Generation Charges	21,065 kWh		1,254.29
Ancillary Charge	21,065 kWh	X 0.00637	134.18
Purchased Generation Adj.	21,065 kWh	X 0.00180	37.92
Working Capital Charge	21,065 kWh	X 0.00035	7.37
Transmission Charges	126 kW	X 0.84500	106.47
Transmission Charges	126 kW	X 0.72000	90.72
Renewable Energy Credit			-2,578.32
TAXES & FEES			**$20.33**
Sales Tax			20.33

ELECTRIC HIGH TENSION SERVICE 100KW-500KW

Service Period 12/11/2025 to 12/17/2025 - 6 days

PECO ELECTRIC DELIVERY			**$230.55**
Customer Charge			76.63
Distribution Charges	130 kW	X 1.42400	185.12
High Voltage Discount	130 kW	X -0.24000	-31.20
PECO ELECTRIC SUPPLY			**$301.60**

Shopping Information Box

When shopping for a competitive electric/natural gas supplier, please provide the following:

Electric Choice ID: [redacted]

Electric Choice ID: [redacted]

Electric Rate: Electric High Tension Service 100kW-500kW

Electric Rate: Electric High Tension Service 100kW-500kW

If you are purchasing the energy you use from a competitive supplier, it is important to understand the terms of your contract and expiration date.

8194-02-0007906-0001-0016381

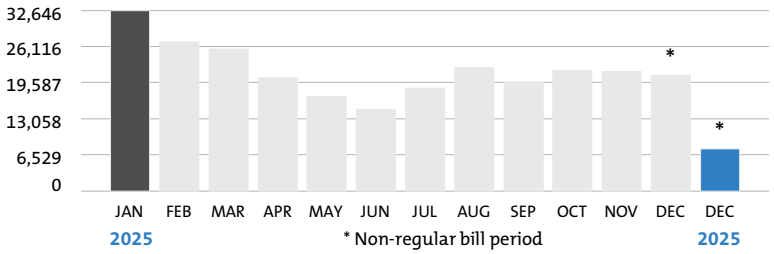
peco℠
AN EXELON COMPANY

Account Number: [redacted]

Administrative Charge	7,721 kWh	X 0.00006	0.46
Generation Charges	7,721 kWh		731.15
Ancillary Charge	7,721 kWh	X 0.00637	49.18
Purchased Generation Adj.	7,721 kWh	X 0.00180	13.90
Working Capital Charge	7,721 kWh	X 0.00035	2.70
Transmission Charges	130 kW	X 0.28800	37.44
Renewable Energy Credit			-533.23
TAXES & FEES			**$8.52**
Sales Tax			8.52

Total Current Charges $523.51

Your Usage Profile
ANNUAL ELECTRIC USAGE



peco.com/WaysToSave
Save energy and money

Period	Usage	Avg Daily Usage	Days	Avg Daily Temp
Current Month	7,721	1,286.80	6	31
Last Month	21,065	957.50	22	44
Last Year	32,646	989.30	33	37

Avg kWh per Month 19,888
Total Annual kWh Usage 238,656

Message Center

From PECO:

5.90% estimated Gross Receipt Tax of $29.19 included in new charges.

Your estimated electric price to compare adder is $0 per kWh, which includes ancillary charges and the purchased generation adjustment but excludes energy and capacity. This may change in March, June, September and December. For more information and supplier offers visit **PAPowerSwitch.com**.

Your Previous Banked Distribution kWh is 806237. Your Current Change in Banked Distribution kWh is 12772. Your current Adjustment to Banked Distribution kWh due to settlement is 0. Your Remaining Banked Distribution kWh is 819009.

Corrected Bill

8194-02-0007906-0002-0016381

Ways to Pay

Online
Visit **peco.com/paybill** where you can enroll in AutoPay, or make a one-time payment using your credit card or bank account.

Mobile App
Download **the PECO mobile app** for your Apple or Android device for the quickest and easiest way to manage your account and pay bill with one swipe of the finger.

Mail
Mail checks payable to PECO and write your account # on your check. Make sure to include the tear-off portion of your bill at the bottom of page 1.

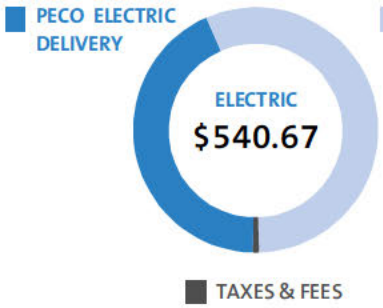
Phone
Call **877-432-9384** to make a payment with a credit card, debit card, or your bank account.*

** Fees apply for card & phone payments.*
No fees apply when you create a PECO My Account and pay using your bank account

peco
AN EXELON COMPANY

Name: GREENFIELD MFG CO INC
Account Number: [redacted]
Phone Number: 215-535-4141
Service Address: 9800 Bustleton Ave RS - IN\OUT, Philadelphia

Emergency and Repair
800-841-4141
This is the number to call to report power outages, gas leaks or odors, and safety hazards related to PECO Equipment.



PECO
2301 MARKET STREET
PHILADELPHIA, PA 19103
800-494-4000
peco.com

Billing Summary

Bill Date	12/30/2025
Charges/Credits from previous bill	-$187.34
Cancelled Charges	-$540.67
Total Other Charges	**-$728.01**
Current Period Charges	
Electric	$540.67
Total New Charges	**$540.67**
No Payment is Due	**$0.00**

Your remaining excess credit is $187.34

8198-01-0018212-0001-0019904

General Information

Next scheduled meter reading: 01/20/2026

800-494-4000

If you have any questions or concerns, please call 800-494-4000 before the due date. Si tiene alguna pregunta, favor de llamar al numero 800-494-4000 antes de la fecha de vencimiento.

peco.com/service

Customer Self Service - Manage Your Account 24/7
Start, stop and move your service

Account Representative

Your major account rep is Rep Chris Amicone,PECO. If you have any questions about this bill please contact us at 215-841-5515 or by writing PECO, 2301 Market St, S10-1, Philadelphia, PA 19103-1380.

Online: **peco.com**

By Phone: **215-841-5515**

Return only this portion with your check made payable to PECO. Please write your account number on your check.

peco
AN EXELON COMPANY
2301 Market Street
Philadelphia, PA 19103-1380

☐ **Enroll in Automatic Payment.** *Complete form on reverse side.*
☐ **Pledge a donation to MEAF.** *Complete form on reverse side.*

Account # [redacted]

877-432-9384
Pay by phone, a convenience fee will apply.

No Payment is Due **$0.00**

Payment Amount $ _____ . ___

Pay Today!

peco.com/ebill
Go paperless: receive and pay your bill online.

0018212 01 AB 0.64 **AUTO T6 0 8198 19115-214600 -C01-B1-P18230-I1

GREENFIELD MFG CO INC
9800 BUSTLETON AVE
PHILADELPHIA, PA 19115-2146

PECO - PAYMENT PROCESSING
PO BOX 37629
PHILADELPHIA PA 19101-0629

9696481222010000000601500000005

peco
AN EXELON COMPANY

Account Number: [redacted]

1 Service Address 9800 Bustleton Ave RS - IN\OUT, Philadelphia, PA 19115 **$540.67** Electric Choice ID: [redacted]

Meter Information

Read Dates	Meter Number	Load Type	Reading Type	Meter Reading Previous	Meter Reading Present	Difference	Multiplier X	Total Usage
12/11-12/17	019474971	Out Without Flow Through	Tot kWh	Actual	Actual	0.9921	4800	4762
12/11-12/17	020227585	Out Without Flow Through	Tot kWh	Actual	Actual	0.8969	1920	1722
12/11-12/17	022020354	General Service	GS Off Pk kW	Actual	Actual	0.0180	4800	86.40
12/11-12/17	022020354	General Service	On Pk kW	Actual	Actual	0.0210	4800	100.80
12/11-12/17	022020354	General Service	Pk kW	Actual	Actual	0.0210	4800	100.80
12/11-12/17	022020354	General Service	Tot kWh	Actual	Actual	0.9915	4800	4759
12/11-12/17	022020356	General Service	GS Off Pk kW	Actual	Actual	0.0150	1920	28.80
12/11-12/17	022020356	General Service	On Pk kW	Actual	Actual	0.0150	1920	28.80
12/11-12/17	022020356	General Service	Pk kW	Actual	Actual	0.0150	1920	28.80
12/11-12/17	022020356	General Service	Tot kWh	Actual	Actual	1.5427	1920	2962

Distribution kW - **Measured : 130** Transmission kW - **Measured : 130** Generation kW - **Measured : 130**

Total kWh Used: 7,721

ELECTRIC HIGH TENSION SERVICE 100KW-500KW

Service Period 12/11/2025 to 12/17/2025 - 6 days

PECO ELECTRIC DELIVERY			**$230.55**
Customer Charge			76.63
Distribution Charges	130 kW	X 1.42400	185.12
High Voltage Discount	130 kW	X -0.24000	-31.20
PECO ELECTRIC SUPPLY			**$301.60**
Administrative Charge	7,721 kWh	X 0.00006	0.46
Generation Charges	7,721 kWh		731.15
Ancillary Charge	7,721 kWh	X 0.00637	49.18
Purchased Generation Adj.	7,721 kWh	X 0.00180	13.90
Working Capital Charge	7,721 kWh	X 0.00035	2.70
Transmission Charges	130 kW	X 0.28800	37.44
Renewable Energy Credit			-533.23
TAXES & FEES			**$8.52**
Sales Tax			8.52
Total Current Charges			**$540.67**

Shopping Information Box

When shopping for a competitive electric/natural gas supplier, please provide the following:

Electric Choice ID: [redacted]
Electric Rate: Electric High Tension Service 100kW-500kW

If you are purchasing the energy you use from a competitive supplier, it is important to understand the terms of your contract and expiration date.

Message Center

From PECO:

5.90% estimated Gross Receipt Tax of $31.40 included in new charges.

Your estimated electric price to compare adder is $0 per kWh, which includes ancillary charges and the purchased generation adjustment but excludes energy and capacity. This may change in March, June, September and December. For more information and supplier offers visit **PAPowerSwitch.com**.

Your Previous Banked Distribution kWh is 819009. Your Current Change in Banked Distribution kWh is -1236. Your current Adjustment to Banked Distribution kWh due to settlement is 0. Your Remaining Banked Distribution kWh is 817772.

Corrected Bill

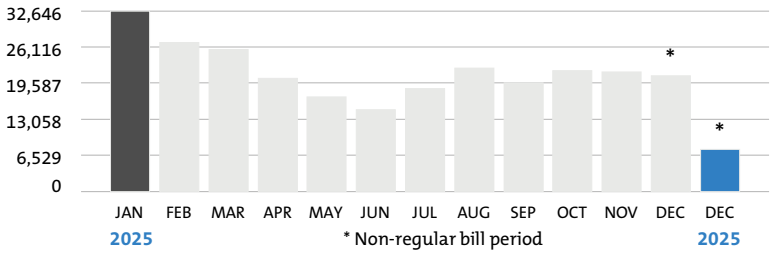
8198-01-0018212-0001-0019905

peco℠
AN EXELON COMPANY

Account Number: [redacted]

Your Usage Profile

ANNUAL ELECTRIC USAGE



* Non-regular bill period

peco.com/WaysToSave

Save energy and money

Period	Usage	Avg Daily Usage	Days	Avg Daily Temp
Current Month	7,721	1,286.80	6	31
Last Month	21,065	957.50	22	44
Last Year	32,646	989.30	33	37

Avg kWh per Month	**19,888**
Total Annual kWh Usage	**238,656**

8198-01-0018212-0002-0019905

Ways to Pay

Online

Visit **peco.com/paybill** where you can enroll in AutoPay, or make a one-time payment using your credit card or bank account.

Mobile App

Download **the PECO mobile app** for your Apple or Android device for the quickest and easiest way to manage your account and pay bill with one swipe of the finger.

Mail

Mail checks payable to PECO and write your account # on your check. Make sure to include the tear-off portion of your bill at the bottom of page 1.

Phone

Call **877-432-9384** to make a payment with a credit card, debit card, or your bank account.*

** Fees apply for card & phone payments.*
No fees apply when you create a PECO My Account and pay using your bank account

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Greenfield Manufacturing Company,	:	
Complainant,	:	
	:	Docket No. C-2024-3050725
v.	:	
	:	
PECO Energy Company,	:	
Respondent.	:	

REBUTTAL TESTIMONY
OF LEONARD GREENFIELD
ON BEHALF OF GREENFIELD MANUFACTURING COMPANY

Greenfield Statement No. 1-R
February 9, 2026

Q. PLEASE STATE YOUR NAME.

A. Leonard Greenfield.

Q. ARE YOU THE SAME LEONARD GREENFIELD THAT PROVIDED DIRECT TESTIMONY IN THIS PROCEEDING?

A. Yes.

Q. WHAT IS THE PURPOSE OF THIS REBUTTAL TESTIMONY?

A. To respond to the Direct testimony of PECO's two witnesses.

RESPONSE TO PECO ST. NO. 1, DIRECT TESTIMONY OF JOSEPH BISTI.

Q. HAVE YOU REVIEWED PJM'S MANUAL 19? WHAT CONCLUSIONS HAVE YOU REACHED?

A. Yes. PJM Manual 19 describes how PJM adjusts the loads that Load Serving Entities ("LSE") like PECO have to account for in their system including but not limited to network peak service load and other factors related to Peak load contribution. Along with PJM Manual 18, these are used to calculate the obligations for capacity purchases for, in this case PECO. The document mostly addresses modifications and alterations to the values from calculations like the 5CPs.

My argument for my behind the meter generation is that the one of the benefits it provides is that when the 5CPs are measured, I lower the number that is used to calculate it as mentioned in PJM M-2 (PECO) which is listed as exhibit JB-2. This happens before the

point where the utility is factoring in load shaving or demand response or other programs like that. We reduce the demand before they have to go looking in the couch cushions for power to shave this peak load, thus lowering the amount they need to purchase.

Q. HAVE YOU REVIEWED PECO'S EXHIBIT JB-2? IF SO, WHAT CONCLUSIONS HAVE YOU DRAWN FROM YOUR REVIEW?

A. JB-2 is the PJM M-2 (PECO), which describes how the PLC is calculated. It seems to confirm my assessment that the way PECO calculates PLC should have a negative value for the PLC and that their current method seems to ignore arithmetic. To calculate the PLC, according to the document (from page 2 section A #1):

> *PECO **gathers the actual hourly meter readings** at hour-ending normal PJM peak time ET for each of the five days coincident with the highest PJM system peak hours, as determined by PJM. These loads include an "add-back" of energy curtailed as a result of load management initiatives or restrictions as identified by PJM.*

Those numbers are then temperature adjusted and then averaged over the 5 CP periods as selected by PJM. In our case PECO seems to be only adding up 2 of our 4 meters. If you added up all 4 meters that we have during one of the CP hours the number would be something closer to -471 kwh/hr. PECO has not been able to explain why their number for this is zero. Here is how I arrived at -470kW based on meter data from my account information on PECO's website:

2025	Hour Start	PJM (kW)	PECO (kW)	GFM (kW)
6/23/2025	17:00	160,709,000	8,097,200	-492.92
6/24/2025	17:00	160,688,000	8,475,200	-298.08
6/25/2025	14:00	152,963,000	8,231,600	-632.16
7/28/2025	17:00	151,584,000	7,751,100	-469.44
7/29/2025	17:00	156,094,000	8,255,200	-465.12
		156,407,600	8,162,060	-471.54

Peco's claim about "exporting capacity" is intentionally confusing to the point of not making sense. By generating more than I use during these 5CPs I am reducing demand on my line and in my immediate area. If I am sending back 500kW to the line and the next user is using 600kW according to their meter there is no longer 600kW of demand in the area, there is 100kW when it's measured and counted. This helps PECO because they go by this measured amount to determine how much capacity they need to go out and buy at the next capacity auction. It helps everyone in PJM by reducing market rate of the capacity auction by the rules of supply and demand as I am reducing demand.

Q. ON PAGES 5-6 OF HIS TESTIMONY, MR. BISTI EXPLAINS HOW PECO CALCULATES PLC AND WHY PECO DOES NOT COMPENSATE FOR NEGATIVE PLC. WHAT IS YOUR RESPONSE?

A. Here is where PECO again claims that our PLC value is zero even though when calculated above its -471 kW. Also, to note as shown in my testimony Exhibit LG-3, it appears that

PECO does currently compensate us for a Peak Load Contribution Generation Credit as part of the nebulous "Renewable Energy Credit." No one at PECO has been able to explain how this is calculated, what it is measuring (kw or Kwh), or any information besides that it exists on line 46 of this itemized sheet. PECO does compensate for PLC despite what they have said repeatedly in this case and is either unwilling or unable to explain how they come up with that number for the past few years.

Q. ON PAGES 6-7 OF HIS DIRECT TESTIMONY, MR. BISTI ADMITS THAT PECO DOES NOT COMPENSATE CUSTOMER GENERATORS FOR KW BASED CHARGES. HOW DO YOU RESPOND?

A. PECO does compensate net metering accounts for kW based charges such as transmission and as shown in the Exhibits with PECO's elaborated billing. PLC is also compensated even though PECO seems unaware of that.

Distribution is also compensated but in credits that seemingly have no value. With respect to distribution Mr. Bisti refers to the Commission's Final Order at L-2014-240361 where they clarify that distribution compensation is only to be paid out to cancel out what would be paid over the previous one-year period. I do not argue with that. PECO's statement is that it must be credited in kWH (pg. 73), despite not being billed in kWH meaning that these credits are determined by PECO to hold no value at all. This effectively nullifies the distribution compensation for C&I customers. Further in the Paragraph it states:

> *"This language is intended to provide clarity, not to change the current practice under the existing rules."*

Whenever PECO uses values from our meter, PECO measures usage in kWh and then converts it to kW for billing. In the case of distribution PECO is seeing how many kilowatt hours are being used in a 30-minute period in the month and then multiplying it by 2x to get an extrapolated usage, which is an average, for a full hour. They then say that it's in kilowatts instead of kilowatt hours because they simplify a fraction of (Kilowatt Hours)/Hours. But it does not change the fact that measured demand's measured units are kilowatt hours per hour. (PECO Tariff Section 15.1 Measured Demands).

> 15.1 MEASURED DEMANDS. Measured demands may be quantified by recording or indicating instruments showing, unless otherwise specified, the greatest 30-minute rate-of-use of energy, provided that in the case of hoists, elevators, welding machine, electric furnaces, or other installations where the use of electricity is intermittent or subject to violent fluctuation the demand may be fixed by special determination.

By billing in power (kW) and only compensating C&I net-metering customers by energy (kWh) PECO is effectively skirting compensation for distribution which is in opposition to the intentions of the rules.

RESPONSE TO PECO ST. NO. 2, DIRECT TESTIMONY OF CHRISTOPHER AMICONE

Q. ON PAGES 2 AND 3 OF HIS TESTIMONY, MR. AMICONE ADMITS THAT PECO WAS ESTIMATING GREENFIELD MANUFACTURING'S BILLS IN JANUARY 2024; IS THAT CORRECT?

A. Yes. PECO has often incorrectly estimated our bills due either to accounting issues or metering malfunctions. Incorrect bills have been nearly constant since the installation of

our solar array and possibly before. At one point we had over 40 bills in a row that needed to be adjusted and then more recently it happened again in December of 2025.

These ongoing difficulties establish that PECO's billing system is too fragile to not be constantly monitored, and that the line item on the bill marked "renewable energy credit" is as trustworthy as gas station sushi in Kansas. More often than not the bills are riddled with errors that I wouldn't have been able to find without the screen shots sent by Mr. Amicone of their system that generates the bills. This is how we found that PECO has been paying PLC out and doesn't compensate for NBT&EE. We also went through issues where we were not being compensated properly with the PTC adder or the transmission credit for years.

Q. ON PAGE 4 OF HIS TESTIMONY, MR. AMICONE CLAIMS THAT PECO STOPPED SENDING SPREADSHEETS SHOWING BILLING DETAIL BECAUSE THE ISSUES WERE CORRECTED? IS THAT STATEMENT CORRECT, AND DO YOU HAVE ANYTHING TO ADD?

A. It is not clear what PECO intends to stop providing us at this point as Mr. Amicone has resumed sending us the screen shots as seen in Exhibit LG-3 because the December bill was indecipherable, and neither of us could initially determine what happened. It is yet more proof that billing accurately is not something that PECO can be trusted with doing.

Q. ON PAGE 4 OF HIS TESTIMONY, MR. AMICONE CLAIMS THAT THERE IS NO RECORD OF THE OUTAGE YOU DISCUSS IN YOUR TESTIMONY – IS HIS RECOUNTING ACCURATE?

A. Mr. Amicone has read the dates specified as 1/9 to 1/11, as 9/11. So, he's probably right about me having power on 9/11. But we were talking about January and not September.

Q. IN THE SAME PLACE, MR. AMICONE CLAIMS THAT YOU NEVER SUBMITTED A CLAIM FOR THE GENERATORS AND FUEL, IS HE CORRECT?

A. I was told that they do not compensate for generator usage.

Q. AT THE BOTTOM OF PAGE 5, MR. AMICONE CLAIMS THAT PECO'S FAILURE TO CORRECTLY INSTALL YOUR METER, WHEN YOU FIRST BEGAN NET METERING IS "NOT RELEVANT TO THE ISSUES RAISED IN THE FORMAL COMPLAINT." DO YOU AGREE?

A. Our meters were replaced many times and have been updated and changed with different radio systems and then replaced all together several times. I do not have records of this, but PECO does as often times I am not privy to their activities. The basis of this complaint is that PECO's billing is wrong and the only reason it was found in many cases is because I got detailed billing information from screen shots of their billing system (LG-3). I think the "renewable energy Credit" should be expanded so I can better verify the bills correctness. As I am the one who is stuck holding the bag when PECO messes up typically until I confront them.

Q. MR. GREENFIELD, CAN YOU PLEASE SUM UP YOUR COMPLAINT AGAINST PECO AND WHAT YOU SEEK BY WAY OF RELIEF?

A. I would like Compensation for:

- Distribution since becoming a net metering customer.
- Distribution going forward that doesn't involve worthless credits that exist as a work around for fair compensation.
- PLC contribution credit explanation.
- Correction of PLC compensation going forward based on the actual PLC values as calculated by the correct formula. This would include PLC and NBT and EE.
- Compensation for legal fees because it shouldn't take bringing this to an ALJ to get an answer on billing lines on my utility bill.

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

GREENFIELD MANUFACTURING COMPANY	:	
	:	Docket No. C-2024-3050725
v.	:	
PECO ENERGY COMPANY	:	

DIRECT TESTIMONY OF CHRISTOPHER AMICONE

On Behalf of PECO Energy Company

PECO Energy Company St. No. 2

Witness Exhibits

CA-1 Monthly Bills for Sept.-Nov. 2025

Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS FOR THE RECORD.

A. 2301 Market Street, Philadelphia PA.

Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

A. PECO Energy Company, ("PECO") as a Senior Account Manager.

Q. HOW LONG HAVE YOU BEEN EMPLOYED BY THE COMPANY?

A. 6 years.

Q. HOW LONG IN YOUR CURRENT POSITION?

A. 1 ½ years.

Q. PLEASE GENERALLY DESCRIBE YOUR DUTIES AND RESPONSIBILITIES IN YOUR CURRENT POSITION.

A. I am the primary PECO contact for certain large commercial customer accounts., such as Greenfield Manufacturing Company.

Q. PLEASE EXPLAIN THE BILLING ISSUES THAT IMPACTED THE COMPLAINANT THAT AROSE DUE TO PECO'S NEW BILLING SYSTEM.

A. He was not being credited correctly for excess generation from his solar panels starting on March 22, 2023.

Q. PLEASE EXPLAIN HOW THE COMPLAINANT'S NET-METERING IMPACTED THE ISSUED MONTHLY BILL.

A. The Renewable Service started May 13, 2021. Since then, any excess distribution would be banked and applied to future bills as well as netted by being paid out monthly as a "Renewable Energy Credit" or a payout at the end of the year. If they had a supplier the payout would be through them. The credit amount is whatever generation/bank was applied to their bills, and the difference of what was delivered. Per the Tariff, if a customer's generator supplies more

electricity to the Company than the Company delivers to the customer-generator in a given billing period, the excess kilowatt hours shall be carried forward and credited against the customer-generator's usage in subsequent billing periods at the full retail rate. Any excess kilowatt hours will continue to accumulate until the end of the PJM planning period ending May 31 of each year. On an annual basis, the Company will compensate the customer-generator for kilowatt hours received from the customer-generator in excess of the kilowatt hours delivered by Company to the customer-generator during the preceding year at the "full retail value for all energy produced" consistent with Commission regulations. The customer's generator is responsible for the customer charge, demand charge and other applicable charges under the applicable Rate Schedule.

Procurement Class 3/4 customer-generators will receive a generation credit, at the PJM Day Ahead hourly energy rate, for each kilowatt hour received by the Company during each hour of the billing period up to the total amount of electricity delivered to the customer during each hour of the billing period. If a Procurement Class 3/4 customer-generator supplies more electricity to the Company than the Company delivers to the customer-generator during any hour in the billing period, the excess kilowatt hours shall not be carried forward to a subsequent billing period but will be credited in the current month toward generation charges based on the PJM Day Ahead hourly rate. Any excess kilowatt hours at the end of the PJM planning period will not carry over to the next year. 4. Procurement Class 3/4 customer-generators will also receive a variable distribution credit for each kilowatt hour received by the Company during the monthly billing period up to the total amount of electricity delivered to the Customer during the monthly billing period at the applicable distribution rate. If a Procurement Class 3/4 customer-generator supplies more electricity to the Company than the Company delivers to the customer-

generator, the variable distribution charges will be reduced by the excess kilowatt hours, which will be carried forward and credited against the customer-generator's distribution kilowatt hours in subsequent billing periods until the end of the PJM planning period, ending May 31 of each year.

Procurement Class 3/4 customer-generators are responsible for the customer charge, demand charge and other applicable charges under the applicable Rate Schedule. Any excess kilowatt hours at the end of the PJM planning period will not carry over to the next year and reduce distribution charges.

Q. WHY DID PECO ESTIMATE THE COMPLAINANT'S SOLAR OUTPUT?

A. As a result of an incorrect estimated intervals calculated during a power outage at the Service Location in January 2024. There have been multiple field visits regarding adjusting the antenna on the meters.

Q. WHEN AND WHY DID PECO STOP ESTIMATING THE SOLAR OUTPUT?

A. PECO stopped estimating the solar output as a result of field visits and upgrading/changing the meters. There was a meter exchange on December 17, 2025. Since that time, issued bills have been based on actual reads and should continue, as reflected on **Exhibit CM-1**.

Q. WHY DID PECO STOP PROVIDING MONTHLY SPREADSHEETS TO THE COMPLAINANT?

A. The issues affecting the monthly bill were corrected. Because the Complainant did not having full access to usage and billing information, the second page on the monthly invoice was blank, monthly spreadsheets and billing breakdowns were manually created. Also one of the 4

meters was not displaying the information on the Complainant's "My PECO Account." As a result, I am sending to the Complainant the billing information and interval data for that meter.

Q. DID PECO BILL THE COMPLAINANT DURING THE PERIOD JAN. 9-11, 2024, WHEN THE COMPLAINANT EXPERIENCED AN OUTAGE?

A. There is no business record that the Complainant experienced an outage on September 11, 2024. The Complainant did experience an outage that occurred on October 9, 2024; the duration lasted from 12:23 to 20.09. The billing for the usage recorded by Meter #020227586 was not impacted. The billing for the usage recorded by Meter #022020289 was impacted and the usage that day was estimated.

Q. DID THE COMPLAINANT FILE A CLAIM FOR THE COST OF USING A GENERATOR DURING THE OUTAGE?

A. No. There is no business record of a claim being received by PECO's Claim Department for the cost of generator during a power interruption.

Q. THE COMPLAINANT ALLEGES THAT PECO INCORRECTLY INSTALLED THE METER IN MAY 2021 WHEN THE COMPLAINANT'S SOLAR PROJECT WENT LIVE. WHAT IS YOUR RESPONSE?

A. This event occurred more than 4 years ago and is not relevant to the issues raised in the Formal Complaint.

Q. DOES THAT CONCLUDE YOUR TESTIMONY?

A. Yes

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GREENFIELD MANUFACTURING COMPANY	:	
	:	Docket No. C-2024-3050725
v.	:	
PECO ENERGY COMPANY	:	

VERIFICATION

I, Christopher Amicone, am authorized to make this Verification on behalf of PECO Energy Company, and hereby state that the facts set forth in my written testimony are true and correct to the best of my knowledge, information and belief. I understand that the statements therein are made subject to the penalties of 18 Pa.C.S. § 4904, relating to unsworn falsifications to authorities.

Date: January 27, 2026

Signed by:
90565A359549414...
Christopher Amicone

BEFORE THE

PENNSYLVANIA PUBLIC UTILITY COMMISSION

GREENFIELD MANUFACTURING COMPANY	:	
	:	Docket No. C-2024-3050725
v.	:	
PECO ENERGY COMPANY	:	

DIRECT TESTIMONY OF JOSEPH BISTI

On Behalf of PECO Energy Company

PECO Energy Company St. No. 1

Witness Exhibits

JB-1 PJM Manual 18
JB-2 PJM Tariff -Attachment M-2 (PECO)
JB-3 Rate HT
JB-4 Rate RS-2
JB-5 Tariff Rule 22.1
JB-6 *AEPS Order*, Docket No. L-2024-2404361, entered October 27, 2016

Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS FOR THE RECORD.

A. Joseph Bisti, 2301 Market Street, Philadelphia, PA, 19103.

Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

A. PECO Energy Company, ("PECO") as Manager, Rate Analysts

Q. HOW LONG HAVE YOU BEEN EMPLOYED BY THE COMPANY?

A. 25+ years.

Q. HOW LONG IN YOUR CURRENT POSITION?

A. 3+ years.

Q. PLEASE GENERALLY DESCRIBE YOUR DUTIES AND RESPONSIBILITIES IN YOUR CURRENT POSITION.

A. I am responsible for retail tariff operations, project management, and regulatory affairs relating to PECO's gas and electric operations. I have also testified as the Company's expert witness on rate design in several Commission proceedings.

Q. PLEASE PROVIDE YOUR EDUCATIONAL BACKGROUND.

A. I received a Bachelor of Science in Economics from The College of New Jersey in 2000. In 2—29, I received a Master of Science in Training and Organizational Development from Saint Joseph's University. In 2012, I received a Graduate Certificate in Utility Management from Willamette University. In 2015, I earned a Certification as a Project Management Institute Professional in Business Analysis.

Q. PLEASE EXPLAIN HOW PJM MANUAL 18, DATED 7/23/25, IS RELEVANT TO THIS PROCEEDING.

A. PJM Manual 18, **Exhibit JM-1**, establishes the governing rules, processes, and obligations for participation in the PJM Capacity Market, including the Reliability Pricing Model

("RPM") and the Fixed Resource Requirement ("FRR") Alternative. It also provides the framework under which capacity obligations are defined, allocated, and administered across the PJM Regional Transmission Organization ("RTO") footprint. As part of this framework, Manual 18 relies on Peak Load Contribution ("PLC") values as a foundational input for determining capacity obligations for Load Serving Entities ("LSEs").

While Manual 18 references PLCs and incorporates their use throughout the capacity market construct, it does not set forth the methodology for calculating PLCs. Instead, the calculation of PLCs is governed by PJM Manual 19 (Load Forecasting & Analysis), which outlines the instructions, rules, procedures, and guidelines used to determine PLC values. Under Manual 19, Electric Distribution Companies ("EDCs"), including PECO, are responsible for calculating customer PLCs within their respective zones using "EDC-specific methodologies."

Q. PLEASE EXPLAIN THE RELEVANCE OF PJM'S TARIFF, ATTACHMENT M-2, TO THIS PROCEEDING?

A. PJM Tariff, Attachment M-2 (PECO), **Exhibit JB-2**, outlines the process by which PECO determines PLCs for customers and subsequently Load Serving Entities ("LSEs") serving load within the PECO Electric Distribution Company ("EDC") Zone (the "PECO Zone"), a zone located entirely within the PJM Regional Transmission Organization (RTO) footprint. Exhibit JB-1 is part of PJM's Open Access Transmission Tariff, which is one of PJM's FERC-jurisdictional governing documents.

Q. UNDER WHAT TARIFF DOES PECO SERVE THE COMPLAINANT?

A. PECO currently provides electric service under its commercial and industrial "High Tension Power" rate schedule (Rate HT), described on Page No. 60 of PECO's current Electric Service Tariff No. 8, **Exhibit JB-3**, as well as PECO's "Net Metering" rate schedule (Rate RS-

2), **Exhibit JB-4**, described on Page Nos. 54-56 of the same. PECO has also designated the Complainant as a member of the "Large Commercial and Industrial greater than 100 kW" Procurement Class, also currently known as "Procurement Class 3" and "Procurement Class 3/4", as per PECO Electric Service Tariff Rule 22.1, **Exhibit JB-5**, regarding "Designation of Procurement Classes".

Q. WHAT TARIFF ADDRESSES DISTRIBUTION-RELATED COMPENSATION FOR COMMERCIAL CUSTOMERS WITH ANNUAL PEAK DEMAND GREATER THAN 100KW?

A. The Billing Provisions within PECO's Net Metering rate schedule (Rate RS-2) on Page No. 55 of PECO's Electric Service Tariff address distribution-related compensation for all net metering customers. PECO notes that Greenfield Exhibit LG-7 does not contain the current version of PECO's RS-2 rate and the current version of Rate RS-2 is provided as **JB-4**. Provision 4 of this Section addresses distribution credits for commercial customers in Procurement Class 3/4 with annual peak demand greater than 100 kW, such as the Complainant.

Q. PLEASE EXPLAIN PECO PROCUREMENT CLASS 3/4.

A. PECO places all distribution customers into one of several Procurement Class designations for the purposes of competitive default service procurements and billing of related default service generation charges. Prior to June 1, 2017, PECO had four separate procurement classes, which included its Medium Commercial class (Procurement Class 3, customers having annual peak demands greater than 100 kW up to and less than or equal to 500 kW) and its Large Commercial Class (Procurement Class 4, customers having annual peak demands of greater than 500 kW). Customers in both Procurement Classes 3 and 4 received hourly-priced default service. Effective June 1, 2017, as a result of PECO's fourth Default Service Program Proceeding at

Docket No. P-2016-2534980, PECO combined both customer groups into a Consolidated Large Commercial and Industrial Procurement Class, referred to as "Procurement Class 3/4", which since that date has included all customers with annual peak demands of greater than 100 kW. PECO's current RS-2 tariff rate schedule continues to refers to this designation as Procurement Class 3/4.

Q. PLEASE EXPLAIN HOW THE NON-BYPASSABLE TRANSMISSION CHARGE AND ENERGY EFFICIENCY CHARGE APPLIED TO THE COMPLAINANT.

A. As described on Page No. 47 and 48 respectively of PECO's Electric Service Tariff, PECO's Non-Bypassable Transmission ("NBT") and Energy Efficiency And Conservation Program ("EEPC") rates are fully-reconcilable under Section 1307(a) of the Code, automatic adjustment clauses that recover certain types of costs from all PECO distribution service customers, including those who receive default service from PECO like the Complainant. The NBT recovers non-market-based transmission charges paid by PECO to PJM. The EEPC recovers PECO costs associated with design and implementation of programs in PECO's approved Act 129 Energy Efficiency And Conservation plan costs.

In both cases, as per the tariff, PECO charges a rate per kW to its Rate HT customers based on their calculated PJM Capacity Peak Load Contribution ("PLC"). PECO calculated the Complainant's PLC value for the time period in question as zero (0) kW. Therefore, PECO did not assess charges or credits on the Complainant's bills in relation to these two rates.

Q. WHY DOESN'T PECO CREDIT THE COMPLAINANT FOR THE NEGATIVE PEAK LOAD CONTRIBUTION?

A. Crediting the Complainant in this manner would require PECO to calculate the Complainant's PLC value as less than zero (0) kW. PECO does not calculate negative PLC

values because customers cannot export capacity back to the grid. Capacity does not flow bi-directionally in the same manner as energy. Customers either do or do not place demand for capacity on the system.

The PLC is an operational, capacity-related value that represents the demand of the customer coinciding with PJM's peak demand across its footprint. When a customer's generation fully offsets their demand at the time of PJM's peak, that customer is not demanding any energy on the system and therefore does not require any capacity resources to serve their demand during that time. PJM has already arranged in advance through its wholesale capacity market for capacity resources to be available, regardless of whether any specific customer will be net metering. Therefore, a customer's decision to net meter does not directly impact the cost of providing immediately available capacity, and customers who net meter are not actually "exporting" capacity by doing so (even though they may be providing energy, which is a separate service).

Q. THE COMPLAINANT ALLEGES THAT PECO IS IN VIOLATION OF THE AEPS REQUIREMENT THAT HE BE COMPENSATED IN FULL RETAIL VALUE. WHAT IS PECO'S RESPONSE?

A. Regarding the Complainant's reference to distribution credit, the plain language of Commission regulations at 52 Pa. Code Section 75.13 suggests that PECO is obligated to credit or compensate customer generators only for the excess kilowatt-hours of electric generation, and not for demand-related components of the customer's bill. The Commission affirmed as much, on Pages 68 and 74 of its related *AEPS Order*, entered October 27, 2016, at Docket L-2014-2404361 (**Exhibit JB-6**), stating affirmatively that the customer-generator is responsible for the demand charge. Accordingly, Billing Provision 1 of PECO's Electric Service Tariff states that

the customer-generator is responsible for the demand charge under the applicable rate schedule, which in this case is PECO's Rate HT. The Complainant has indicated in their testimony that they intend to reserve their legal arguments concerning this interpretation for briefing, and PECO will do the same.

Regarding the Complainant's reference to transmission credit, the kWh-based credit provided by PECO is associated with PECO's Transmission Service Charge ("TSC") rate, which is a component of PECO's kWh-based retail Price To Compare for Supply. It is not associated with PECO's NBT rate. Please refer to the portion of PECO's response to Greenfield Set 1, No. 1 in Greenfield Exhibit LG-1 titled "Transmission Service Charge (TSC), C&I Rates GS and Rate HT/PD/EP" for additional details.

As explained above, PECO does not compensate a customer for PLC-based rates when the customer's PLC is equal to zero. PECO does not calculate negative PLC values because customers cannot place negative demands on, or export capacity to, the PECO distribution system. This applies to charges calculated for PECO's EEPC and NBT rates as well as charges calculated for PECO's Generation Supply Adjustment ("GSA") rate for generation. Please refer to the portion of PECO's response to Greenfield Set 1, No. 1 in Greenfield Exhibit LG-1 titled "Generation Supply Adjustment (GSA) for C&I Procurement Class 3/4, Loads>100 kW" for additional details.

Q. DOES PECO CHARGE COMMERCIAL CUSTOMERS FOR DISTRIBUTION CHARGES?

A. Yes. Please refer to subparts (a) and (b) of PECO's response to Greenfield Set 1, No. 1 in Greenfield Exhibit LG-1 as submitted by the Complainant.

Q. WHAT ARE THE COMPONENTS OF THE DISTRIBUTION CHARGES FOR COMMERCIAL CUSTOMERS?

A. Please refer to subparts (a) and (b) of PECO's response to Greenfield Set 1, No. 1 in Greenfield Exhibit LG-1 as submitted by the Complainant.

Q. IS PECO REQUIRED TO ITEMIZE THE CREDITS REFLECTED ON THE BILL UNDER "RENEWABLE ENERGY CREDIT"?

A. No. There is no Commission regulation nor is the any Commission-approved PECO tariff that requires such itemization.

Q. DOES THIS CONCLUDE YOUR TESTIMONY?

A. Yes.

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GREENFIELD MANUFACTURING COMPANY	:	
	:	Docket No. C-2024-3050725
v.	:	
PECO ENERGY COMPANY	:	

VERIFICATION

I, Joseph A. Bisti, am authorized to make this Verification on behalf of PECO Energy Company, and hereby state that the facts set forth in my written testimony are true and correct to the best of my knowledge, information and belief. I understand that the statements therein are made subject to the penalties of 18 Pa.C.S. § 4904, relating to unsworn falsifications to authorities.

Date: January 27, 2026

Signed by:
Joseph A. Bisti
6A9E9A05AC5741D...

Joseph A. Bisti

Docket No. C-2024-3050725
Greenfield Manufacturing Company v. PECO Energy Company
The Hon. Marta Guhl
Hearing Date: Wednesday, February 25, 2026 at 10:00 AM
Call-In Hearing No.: 866.675.3641; PIN #: 37082098

PROPOSED EXHIBITS OF PECO ENERGY COMPANY

JB-1. PJM Manual 18
JB-2. PJM Tariff -Attachment M-2 (PECO)
JB-3. Rate HT
JB-4. Rate RS-2
JB-5. Tariff Rule 22.1
JB-6. *AEPS Order*, Docket No. L-2024-2404361, entered October 27, 2016
CA-1. Monthly Bills for Sept.-Nov. 2025

PJM Manual 18:

PJM Capacity Market

Revision: 61

Effective Date: July 23, 2025

Prepared By
Capacity Market & Demand Response Operations

PJM © 2025



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Approval

Approval Date: 07/23/2025
Effective Date: 07/23/2025

Peter Langbein, Manager

Capacity Market and Demand Response Operations

Current Revision

Administrative Change (Pete Langbein approved 08/01/2025):

- Added missing changes from Revision 60 back into Revision 61

Revision 61 (07/23/2025):

- Conforming changes were made to the following sections to incorporate provisions of FERC orders (ER25-682) and (ER25-785) and (er24-2995-000).
- 2.4.5 Adjustments to RPM Auction Parameters for EE Resources
- 3.3 Parameters of the Variable Resource Requirement
- 3.3.1 Cost of New Entry
- 3.4 Plotting the Variable Resource Requirement Curve
- 4.7.1 Resource Position for Generation Capacity Resources
- 5.1 Overview of RPM Auctions
- 5.4.1 Resource-Specific Sell Offer Requirements
- 5.4.8.4 Default MOPR Floor Offer Prices
- 8.4A Non-Performance Assessment

Introduction

Welcome to the ***PJM Manual for PJM Capacity Market***. In this Introduction you will find information about PJM Manuals in general, an overview of this PJM Manual in particular, and information on how to use this manual.

- What you can expect from the PJM Manuals (see "About PJM Manuals").
- What you can expect from this PJM Manual (see "About This Manuals).
- How to use this manual (see "Using This Manual").

About PJM Manuals

The PJM Manuals are the instructions, rules, procedures, and guidelines established by PJM for the operation, planning, and accounting requirements of PJM and the PJM Energy Market. The manuals are grouped under the following categories:

- Transmission
- Energy Market
- Regional Transmission Planning Process
- Reserve
- Accounting and Billing
- Administration
- Miscellaneous

For a complete list of all PJM manuals, go to the Library section on PJM.com.

About This Manual

The ***PJM Manual for PJM Capacity Market*** is one of the PJM reserve manuals. This manual focuses on the capacity markets, including the Reliability Pricing Model and the Fixed Resource Requirement Alternative, and the requirements for resource providers and Load Serving Entities (LSEs) to participate in these markets and their responsibilities as signatories to the Open Access Transmission Tariff, Reliability Assurance Agreement and Operating Agreement of PJM Interconnection, L.L.C.

This manual also refers to other PJM manuals, which define in detail the operating procedures, obligations, reporting requirements, and accounting procedures established to ensure reliable and efficient capacity market operation.

The ***PJM Manual for PJM Capacity Market*** consists of 11 sections and 4 attachments (labeled A through D). Both the sections and the attachments are listed in the table of contents beginning on page 2.

Intended Audience

The intended audiences for this PJM Manual for PJM Capacity Market are:

- Applicants to the RAA, OA and OATT Operating Agreement of PJM Interconnection, L.L.C.
- Resource providers and those interested in providing adequate Capacity Resources that will be made available to provide reliable service to loads within the PJM Region.
- Load Serving Entities (LSEs) for load served in the PJM Region.
- PJM Members
- PJM staff

References

There are other PJM documents that provide both background and detail on specific topics. These documents are the primary source for specific requirements and implementation details. This manual does not replace any of the information in those reference documents. The references for the PJM Manual for *PJM Capacity Market* are:

- Control Center and Data Exchange Requirements (M-01)
- Pre-Scheduling Operations (M-10)
- Energy & Ancillary Services Market Operations (M-11)
- Balancing Operations (M-12)
- Regional Transmission Planning Process (14B)
- Generator Operational Requirements (M-14D)
- Energy Efficiency Measurement & Verification (M-18B)
- Load Forecasting & Analysis (M-19)
- Reserve Adequacy Analysis (M-20)
- Reserve Adequacy Analysis (M-20A)
- Rules and Procedures for Determination of Generating Capability (M-21)
- Determination of Accredited UCAP Using Effective Load Carrying Capability Analysis (M-21A)
- Rules and Procedures for Determination of Generating Capability (M-21B)
- Generator Resource Performance Indices (M-22)
- Open Access Transmission Tariff Accounting (M-27)
- Billing (M-29)

Using This Manual

We believe that explaining concepts is just as important as presenting procedures. This philosophy is reflected in the way we organize the material in this manual. We start each section with the "big picture." Then we present details, procedures or references to procedures found in other PJM manuals.

What You Will Find In This Manual

- A table of contents that lists two levels of subheadings within each of the sections and attachments
- An approval page that lists the required approvals and a brief outline of the current revision
- Sections containing the specific guidelines, requirements, or procedures including PJM actions and PJM Member actions
- Attachments that include additional supporting documents, forms, or tables
- A section at the end detailing all previous revisions of this PJM Manual.

Note:

Prior to the Transition Date, the Interconnection Service Agreement (ISA) was the form agreement included in the Tariff used to facilitate interconnection to PJM's transmission system, which used the term "Interconnection Customer" to refer to generation interconnection customers, similar to the Project Developer". While the ISA is no longer used for interconnection to the transmission system, pre-existing ISAs remain active. On and after the Transition Date, the Generation Interconnection Agreement (GIA) is used as the form agreement included in the Tariff to facilitate interconnection to PJM's transmission system.

The Tariff defines the Transition Date as the later of: (i) the effective date of PJM's Docket No. ER22-2110 transition cycle filing seeking FERC acceptance of Tariff, Part VII (Which is January 3, 2023) or (ii) the date by which all AD2 and prior queue window Interconnection Service Agreements or wholesale market participation agreements have been executed or filed unexecuted. Because this section condition happened last, this date establishes the Transition Date.

Section 1: Overview of the PJM Capacity Market

Welcome to the *Overview of the PJM Capacity Market* section of the ***PJM Manual for the PJM Capacity Market***. In this section, you will find the following information:

- An overview description of the PJM Capacity Market (see "Overview of the PJM Capacity Market")
- The business rules for participation in the PJM Capacity Markets (see "Participation in the PJM Capacity Market")
- A definition and purpose of the Reliability Pricing Model (see "Definition and Purpose of the Reliability Pricing Model")
- The timeframe for implementation of the Reliability Pricing Model (see "Implementation of the Reliability Pricing Model")
- A summary of the transition to Capacity Performance (see "Transition to Capacity Performance")

1.1 Overview of the PJM Capacity Market

The PJM Capacity Market is designed to ensure the adequate availability of necessary resources that can be called upon to ensure the reliability of the grid. In PJM, the Capacity Market structure, through either the Reliability Pricing Model (RPM) consisting of a Base Residual Auction and three Incremental Auctions for a Delivery Year or the Fixed Resource Requirement (FRR) Alternative, provides transparent information to enable forward capacity market signals to support infrastructure investment. The capacity market design provides a forward mechanism to evaluate the ongoing reliability requirements in a transparent way to provide opportunity for generation, demand response, energy efficiency, price responsive demand, and transmission solutions.

In the PJM Region, the basis for the Capacity Market design is the Reliability Pricing Model (RPM). The goal of RPM is to align capacity pricing with system reliability requirements and to provide transparent information to all market participants far enough in advance for actionable response to the information. In RPM, the fundamental elements to achieve this are:

- Locational capacity pricing to recognize and quantify the locational value of capacity
- Variable Resource Requirement mechanism to adjust price based on the level of resources procured
- Forward commitment of supply by generation, demand resources, energy efficiency resources, and qualified transmission upgrades cleared in a multi-auction structure
- A Reliability Backstop mechanism to ensure that sufficient generation, transmission and demand response solutions will be available to preserve system reliability

The PJM Capacity Market also contains an alternative method of participation, known as the Fixed Resource Requirement (FRR) Alternative. The Fixed Resource Requirement Alternative provides a Load Serving Entity (LSE) with the option to submit a FRR Capacity Plan and meet a fixed capacity resource requirement as an alternative to the requirement to participate in the PJM Reliability Pricing Model (RPM), which includes a variable capacity resource requirement.

Effective with the 2018/2019 Delivery Year, the Capacity Market design was enhanced to recognize two product types for Capacity Resources, Capacity Performance Resources and Base Capacity Resources, to ensure that capacity resources committed to meet the PJM Region's reliability and resource adequacy needs will deliver the promised energy and reserves when called upon in emergencies. The Base Capacity Resource product-type was phased out such that all capacity resources used to meet the PJM Region's reliability and resource adequacy needs are the Capacity Performance Resource product-type effective with the 2020/2021 Delivery Year.

Effective with the 2020/2021 Delivery Year, the Capacity Market design includes the ability to offer Seasonal Capacity Performance Resources directly into the RPM Auction as an alternative to entering into a commercial arrangement to establish and offer an Aggregate Resource. Capacity Market Sellers may submit sell offers of either Summer-Period Capacity Performance Resources or Winter-Period Capacity Performance Resources and the auction clearing optimization algorithm will be designed to clear equal quantities of off-setting seasonal capacity sell offers thereby creating an annual capacity commitment by matching a Summer-Period Capacity Performance Resource with a Winter-Period Capacity Performance Resource.

Unless otherwise specified, the rules presented throughout this Manual are focused on the Reliability Pricing Model. Information on the Fixed Resource Requirement Alternative can be found in ***Section 11 of this Manual*** and on PJM.com.

1.2 Participation in the PJM Capacity Market

Participants in the PJM Capacity Market, both Load Serving Entities and resource providers, must comply with all applicable provisions of the PJM Open Access Transmission Tariff, PJM Operating Agreement, and the PJM Reliability Assurance Agreement. PJM Capacity Market participants must be signatories of the appropriate Agreements and Full Members of PJM. All participants must comply with the procedures and requirements as set forth by these agreements and in PJM Manuals.

1.2.1 Participation of Load Serving Entities

Participation by Load Serving Entities (LSEs) in the RPM for load served in the PJM region is mandatory, except for those LSEs that have elected the Fixed Resource Requirement (FRR) Alternative and submitted an approved FRR Capacity Plan for their load served in an FRR Service Area. Under RPM, each LSE that serves load in a PJM Zone during the Delivery Year shall be responsible for paying a Locational Reliability Charge equal to their Daily Unforced

Capacity Obligation in the Zone multiplied by the Final Zonal Capacity Price applicable to that Zone. LSEs may choose to hedge their Locational Reliability Charge obligations by directly offering and clearing resources in the Base Residual Auction and Incremental Auctions or by designating self-supplied resources (resources directly owned or resources contracted for through unit-specific bilateral purchases) as self-scheduled to cover their obligation in the Base Residual Auction. Such action may wholly or partially offset an LSE's Locational Reliability Charges during the Delivery Year depending upon how the clearing prices of the resources compare to the Final Zonal Capacity Prices that apply to their unforced capacity obligations.

Participants with Non-Zone Load, as defined in the PJM Agreements, may be included in the Reliability Pricing Model depending if the load that is located outside of the PJM Region is included in the PJM load forecasts and served by generation resources located within the PJM Region. The treatment of Non-Zone Load is described in ***Section 7 of this Manual***.

1.2.2 Participation of Resource Providers

Resource providers with Existing Generation Capacity Resources, Planned Generation Capacity Resources, bilateral contracts for unit-specific Capacity Resources, existing Demand Resources, Planned Demand Resources, Energy Efficiency Resources, and Qualifying Transmission Upgrades may participate in PJM's Capacity Market, either in PJM's Reliability Pricing Model or the Fixed Resource Requirement Alternative, if these resources meet the requirements specified in this Manual. Existing generation that is located outside of the PJM market footprint may also be offered into PJM's Capacity Market, either in the Reliability Pricing Model or the Fixed Resource Requirement Alternative, if the external generation meets the requirements specified in the PJM Manuals and PJM Agreements.

Participation is mandatory for resource providers with:

- Available unforced capacity from Existing Generation Capacity Resources located within the PJM market footprint; or
- Bilateral contracts for available unit-specific Capacity Resources that are Existing Generation Capacity Resources located within the PJM market footprint.
- Generation is treated as existing for the purpose of must-offer requirement and mitigation provisions when the generation is (a) in service at the commencement of an RPM Auction or (b) not yet in service but has cleared an RPM Auction for any prior Delivery Year.
- External Generation Capacity Resource with an effective External Resource Must Offer Agreement
- Beginning with the 2025/2026 Delivery Year and subsequent Delivery Years, a Planned Generation Capacity Resource associated with a notice of intent to offer submitted pursuant to Tariff, Attachment DD, section 5.5 shall be required to be offered by the Capacity Market Seller of such resource in the relevant RPM Auction.

Resource providers do have the option to export available capacity outside the PJM market footprint if the generator is exporting per the requirements specified in PJM Manuals and PJM Agreements.

Participation is voluntary for resource providers with:

- External Generation Capacity Resource without an effective External Resource Must Offer Agreement
- Planned Generation Capacity Resource (which includes new Generation Capacity Resources and planned upgrades to Existing Generation Capacity Resources); however, effective with the 2025/2026 Delivery Year, a Planned Generation Capacity Resource must satisfy the requirements of the binding notice of intent in section 4.2.3.1 in order to submit a Sell Offer in an RPM Auction
- Planned External Generation Capacity Resources (which includes new Generation Capacity Resources and planned upgrades to Existing Generation Capacity Resources)
- Existing Demand Resources
- Planned Demand Resources
- Energy Efficiency Resources
- Qualifying Transmission Upgrades.

All participation by resource providers is subject to the market power mitigation rules described in ***Attachment DD, Section 6 of the PJM Open Access Transmission Tariff***.

1.2.3 Participation of PRD Providers

PRD Providers may participate in PJM's Capacity Market, either in PJM's Reliability Pricing Model or the Fixed Resource Requirement Alternative. A PRD Provider is a PJM Member that has entered contractual arrangements with end-use customers that satisfy the eligibility criteria for PRD as specified in this Manual.

1.3 Definition and Purpose of the Reliability Pricing Model

The Reliability Pricing Model is the PJM resource adequacy construct that ensures that adequate Capacity Resources, including planned and existing Generation Capacity Resources, Energy Efficiency Resources and planned and existing Demand Resources will be made available to provide reliable service to loads within the PJM Region.

The purpose of the RPM is to develop a long term pricing signal for Capacity Resources and LSE obligations that is consistent with the PJM Regional Transmission Expansion Planning Process (RTEPP). RPM is also designed to add stability and a locational nature to the pricing signal. The RPM is a multi-auction structure designed to procure resource and PRD

commitments to satisfy the region's unforced capacity obligation through the following market mechanisms: a Base Residual Auction, Incremental Auctions and a Bilateral Market.

- *Base Residual Auction* - The Base Residual Auction is held during the month of May three (3) years prior to the start of the Delivery Year. The Base Residual Auction (BRA) allows for the procurement of resource commitments to satisfy the region's unforced capacity obligation and allocates the cost of those commitments among the Load Serving Entities (LSEs) through a Locational Reliability Charge.
- *Incremental Auctions* – At least three Incremental Auctions are conducted after the Base Residual Auction to procure additional resource commitments needed to satisfy potential changes in market dynamics that are known prior to the beginning of the Delivery Year.
  - The First, Second, and Third Incremental Auctions are conducted to allow for replacement resource procurement, increases and decreases in resource commitments due to reliability requirement adjustments.
  - A Conditional Incremental Auction may be conducted if a Backbone transmission line is delayed and results in the need for PJM to procure additional capacity in a Locational Deliverability Area to address the corresponding reliability problem.
- *The Bilateral Market* – The bilateral market provides resource providers an opportunity to cover any auction commitment shortages. The bilateral market also provides LSEs the opportunity to hedge against the Locational Reliability Charge. The bilateral market is facilitated through the Capacity Exchange system.

1.4 Implementation of the Reliability Pricing Model

The implementation of the Reliability Pricing Model began with the 2007/2008 Delivery Year. PJM's Planning Period is defined as an annual period from June 1 to May 31. The Delivery Year is the Planning Period for which resources are being committed and for which a constant load obligation for the entire PJM region exists. For example, the 2012/2013 Delivery Year corresponds to the June 1, 2012 - May 31, 2013 Planning Period.

The Transition Period of the RPM took place during the 2007/2008 through 2010/2011 Delivery Years.

The steady-state condition of the RPM began with the 2011/2012 Delivery Year. Unless otherwise specified, the rules and time frames presented throughout this Manual are for the steady-state condition of RPM.

1.5 Transition to Capacity Performance

Effective with the 2018/2019 Delivery Year[1], PJM introduced Capacity Performance requirement that requires Capacity Resources to meet their commitments to deliver electricity whenever PJM determines they are needed to meet power system emergencies and procured two capacity

product types through RPM Auctions: Capacity Performance Resources and Base Capacity Resources. The Base Capacity Resource product-type was phased out such that only resources that meet the requirements of the Capacity Performance Resource product-type are used to meet the PJM Region's reliability and resource adequacy needs effective with the 2020/2021 Delivery Year.

For a Capacity Resource to qualify as a Capacity Performance Resource product type, the resource must be capable of sustained, predictable operation that allows the resource to be available throughout the entire Delivery Year to provide energy and reserves whenever PJM determines an emergency condition exists. Internal and external Generation Capacity Resources, Capacity Storage Resources, and Aggregate Resources that can qualify as Capacity Performance Resource product type, Demand Resources that meet Capacity Performance DR product type requirements, Energy Efficiency resources that provide permanent, continuous load reduction during both summer and winter peak seasons in accordance with the Capacity Performance EE product type requirements, and Qualifying Transmission Upgrades are eligible to offer as the Capacity Performance product-type. Resources that clear and have a Capacity Performance Resource Commitment are subject to Non-Performance Assessment during the relevant Delivery Year in accordance with ***Section 8.4A of this Manual***.

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1 For FRR Entities, Capacity Performance and Base Capacity resources are effective for the 2019/2020 Delivery Year. Limited DR, Extended Summer DR, and Annual Resources remain effective for FRR Entities through the 2018/2019 Delivery Year. Capacity Performance Resources are solely effective for 2020/2021 Delivery Year.

Section 2: Resource Adequacy

Welcome to the *Resource Adequacy* section of the ***PJM Manual for the PJM Capacity Market***. In this section, you will find the following information:

- An overview description of resource adequacy (see "Overview of Resource Adequacy")
- The role of load deliverability in the Reliability Pricing Model (see "Role of Load Deliverability in the Reliability Pricing Model")
- The business rules for Locational Constraints in the Reliability Pricing Model ("see Locational Constraints in the Reliability Pricing Model")
- The definitions of Reliability Requirements (see "Reliability Requirements")

2.1 Overview of Resource Adequacy

The purpose of PJM RTO resource adequacy is to determine the amount of Capacity Resources that can be required to serve the forecast load and satisfy the PJM reliability criterion. PJM performs an assessment of resource adequacy each year for an eleven-year future period. The analysis considers load forecast uncertainty, forced outages of Generation Capacity Resources, as well as planned and maintenance outages. In PJM, studies are performed using the installed capacity values of resources. The reliability value of a resource depends on two variables: the installed capacity of the resource and a measure of the probability that a resource will not be available due to forced outages or forced de-ratings. The reliability criterion is based on Loss of Load Expectation (LOLE) not exceeding one occurrence in ten years. The resource requirement to meet the reliability criterion is expressed as the Installed Reserve Margin (IRM) as a percentage of forecast peak load.

2.1.1 Installed Reserve Margin

The Installed Reserve Margin (IRM) for the Delivery Year is the measure calculated to establish the level of installed capacity resources that will provide an acceptable level of reliability consistent with the PJM Reliability Principles and Standards. The IRM is determined by PJM in accordance with the ***Resource Adequacy Analysis Manual (M-20) and (M-20A).***

Note:
The Installed Reserve Margin (IRM) is approved by the PJM Board of Managers no later than 75 days in advance of Base Residual Auction for the Delivery Year and posted with the BRA Planning Parameters in accordance with the posting deadline provided on the RPM Auction Schedule on the PJM website. An Updated IRM is approved by the PJM Board of Managers and posted one month prior to its use in an Incremental Auction for the Delivery Year. The Updated IRM that is posted for the Third Incremental Auction for the Delivery Year is the final IRM for the Delivery Year.

2.1.2 Peak Load Forecasts

PJM produces peak load forecasts for use in the RPM auction clearing processes and for planning purposes. In RPM, the load forecasts will be used to determine the RTO Reliability Requirement. PJM will determine ***annual peak load forecasts*** for the RTO and zones for use in the RPM Auction clearing process.

The RTO Peak Load Forecast and the Zonal Peak Load Forecasts for the Delivery Year are determined by PJM in accordance with the ***Load Forecasting and Analysis Manual (M-19).***

Note:
The Preliminary RTO and Zonal Peak Load Forecasts are determined and posted with the BRA Planning Parameters in accordance with the posting deadline provided on the RPM Auction Schedule on the PJM website .

Updated RTO and Zonal Peak Load Forecasts are posted no later than one month prior to the First and Second Incremental Auctions.

The ***Final RTO and Zonal Peak Load Forecasts*** are posted no later than one month prior to the Third Incremental Auction.

Load forecasts are also used in the determination of other planning and auction parameters such as Capacity Emergency Transfer Limit (CETL), Capacity Emergency Transfer Objective (CETO), Capacity Import Limits, and RPM Zonal Scaling Factors. These parameters are discussed in detail in later sections of this Manual.

2.1.3.1 Pool-wide Average EFORd (Through 2024/2025 Delivery Year)

To account for the forced outage rates of generation capacity resources, an Equivalent Forced Outage Rate (EFORd) for each generating unit in the PJM RTO is calculated. Equivalent Demand Forced Outage Rate (EFORd) is a measure of the probability that a generating unit will not be available due to forced outages or forced deratings when there is a demand on the unit to generate. See ***Generator Resource Performance Indices Manual (M-22)*** for equations and details.

The Pool-wide Average EFORd for the Delivery Year is the average of the EFORd values based on five years history, weighted for unit capability and expected time in service, attributable to all units that are expected to be in service during the Delivery Year. The Pool-Wide Average EFORd includes forced outage events that are outside management control (referred to as OMC events). The Pool-wide Average EFORd is determined by PJM in accordance with the ***Resource Adequacy Analysis Manual (M-20).***

Note:
The ***Pool-wide average EFORd*** is posted with the BRA Planning Parameters in accordance with the posting deadline provided on the RPM Auction Schedule on the PJM website. An updated Pool-wide average EFORd is posted one month prior to its use in an Incremental Auction for the Delivery Year. The Pool-wide average EFORd that is posted for the Third Incremental Auction for the Delivery Year is the final pool-wide average EFORd for the Delivery Year.

2.1.3.2 Pool-wide average Accredited UCAP Factor (Starting 2025/2026 Delivery Year)

The Pool-wide average Accredited UCAP Factor for the Delivery Year is the ratio of the total Accredited UCAP to total installed capacity of all resources, as determined pursuant to RAA, Schedule 9.2, that are included in the determination of the Forecast Pool Requirement, stated in percent. The Pool-wide average Accredited UCAP Factor is determined by PJM in accordance with the Resource Adequacy Analysis Manual (M-20A).

Note: The **Pool-wide average Accredited UCAP Factor** is posted with the BRA Planning Parameters in accordance with the posting deadline provided on the RPM Auction Schedule on the PJM website. An updated Pool-wide average Accredited UCAP Factor is posted one month prior to its use in an Incremental Auction for the Delivery Year. The Pool-wide average Accredited UCAP Factor that is posted for the Third Incremental Auction for the Delivery Year is the final Pool-wide average Accredited UCAP Factor for the Delivery Year.

2.1.4 Forecast Pool Requirement

While IRM multiplied by peak load forecasts provides the installed capacity required to meet the reliability criterion, the Forecast Pool Requirement (FPR) multiplied by peak load forecasts provides unforced capacity values, required to meet the reliability criterion.

The Forecast Pool Requirement is the measure determined for the specified Delivery Year to establish the level of unforced capacity (UCAP) that will provide an acceptable level of reliability consistent with PJM Reliability Principles and Standards.

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For Delivery Years through the 2024/2025 Delivery Year, the Forecast Pool Requirement (FPR) for the Delivery Year is equal to (1 + Installed Reserve Margin) times (1-Pool-wide Average EFORd).[2]

$$ForecastPoolRequirement(FPR) = (1 + InstalledReserveMargin) * (1 - PoolWideAverageEFORd)$$

[2] The terms in this equation are expressed in decimal form.

Starting with the 2025/2026 Delivery Year and for all subsequent Delivery Years, the Forecast Pool Requirement (FPR) for the Delivery Year is equal to (1 + Installed Reserve Margin) times (Pool-wide average Accredited UCAP Factor).

$$ForecastPoolRequirement(FPR) = (1 + InstalledReserveMargin) * (Pool-wide\ average\ Accredited\ UCAP\ Factor)$$

Note:
The ***Forecast Pool Requirement (FPR)*** is approved by the PJM Board of Managers by no later than 75 days in advance of Base Residual Auction for the Delivery Year and posted with the BRA Planning Parameters in accordance with the posting deadline provided on the RPM Auction Schedule on the PJM website . An Updated FPR is approved by the PJM Board of Managers and posted one month prior to its use in an Incremental Auction for the Delivery Year. The Updated FPR that is posted for the Third Incremental Auction for the Delivery Year is the final FPR for the Delivery Year.

2.1.5 Effective Load Carrying Capability and ELCC Resources in Capacity Exchange

Effective Load Carrying Capability (ELCC) establishes the Accredited UCAP value for ELCC Resources. Through the 2024/2025 Delivery Year, an ELCC Resource is a Generation Capacity Resource that is a Variable Resource, a Limited Duration Resource, or a Combination Resource. Beginning with the 2025/2026 Delivery Year, an ELCC Resource includes all Generation Capacity Resources and Demand Resources. ELCC analyzes historical hourly weather and load shapes relative to hourly output of ELCC Resources in order to quantify the ability of such resources to satisfy the reliability criterion. The ELCC method is described in **Manual 20 and Manual 20A** (**PJM Resource Adequacy Analysis**), and the calculation of Accredited UCAP for an ELCC Resource is described in **Manual 21A** (**Determination of Accredited UCAP Using Effective Load Carrying Capability Analysis**) **and Manual 21B (Rules and Procedures for Determination of Generating Capability)**.

2.2 Role of Load Deliverability in the Reliability Pricing Model

The process of determining the Installed Reserve Margin (IRM) that meets the PJM reliability criterion assumes that the internal RTO transmission is adequate and any generation can be delivered to any load without transmission constraints. This process helps in determining the minimum possible IRM for the RTO. However, since transmission may have limitations, after IRM is determined, a Load Deliverability analysis is conducted. The RTO is divided into different sub-regions for this analysis. These sub-regions are referred to as Locational Deliverability Areas (LDAs) in the Reliability Pricing Model.

The first step in the Load Deliverability analysis is to determine the Capacity Emergency Transfer Objective (CETO) of each LDA which is used to determine the amount of generation required to meet the locational reliability standard. For more details regarding the CETO analysis, please see ***Resource Adequacy Analysis Manual (M-20) and M20A.***

The second step in Load Deliverability analysis is to determine the transmission import capability limit for each LDA using the transmission analysis models. For this analysis, a Transmission Upgrade including transmission facilities at voltages of 500 kV or higher that is in an approved Regional Transmission Expansion Plan ("Backbone Transmission") will be included in the system model only if it satisfies the project development milestones set forth in the tariff. This import capability limit is called Capacity Emergency Transfer Limit (CETL), expressed in megawatts and valued as unforced capacity. For more details regarding CETL analysis, please see ***Manual 14B: Regional Transmission Planning Process, Attachment C: PJM Deliverability Testing Methods.***

If CETL value is less than CETO value, transmission upgrades are planned under the Regional Transmission Expansion Planning Process (RTEPP). However, higher than anticipated load growth and unanticipated retirements may result in the CETL value being less than CETO value with no lead time to build transmission upgrades to increase CETL value. These conditions could result in locational constraints in the RTO.

2.3 Locational Constraints in the Reliability Pricing Model

When a capacity market does not have the ability to price capacity on a locational basis, all the resources in the market are valued equally. When this occurs, it is possible to have excess reserves in the RTO and relatively low capacity prices. This market signal will result in generation capacity retirements. In some areas of the RTO these retirements will create reliability violations. These conditions will indicate that a higher value for resources is required to be recognized in constrained locations to incent existing generating capacity to remain in service, and new capability to be built in the form of generation resources, demand resources, energy efficiency resources, or merchant transmission upgrades. One of the key features of RPM is the recognition of locational value of capacity.

Locational Constraints are localized intra-PJM capacity import capability limitations (low CETL margin over CETO) that are caused by transmission facility limitations or voltage limitations that are identified for a Delivery Year in the PJM Regional Transmission Expansion Planning Process (RTEPP) prior to each Base Residual Auction. Such locational constraints are included in the RPM to recognize and to quantify the locational value of capacity within the PJM region.

Note:
CETOs and CETLs for the LDAs to be modeled in all RPM Auctions for the Delivery Year are posted with the BRA Planning Parameters in accordance with the posting deadline provided on the RPM Auction Schedule on the PJM website. Updated CETOs and CETLs for the modeled LDAs are posted one month prior to its use in an Incremental Auction for the Delivery Year.

2.3.1 Locational Deliverability Areas

In the development of the Reliability Pricing Model, the RTEP Process identified 27 sub-regions referred to as Locational Deliverability Areas for evaluating the locational constraints. LDAs include EDC zones, sub-zones, and combination of zones.

The 27 LDAs (highlighted in boldface) and an LDA's relationship to an immediate parent LDA are listed below:

- RTO=> **Western PJM**
- RTO => Western PJM => **ComEd**
- RTO => Western PJM => **AEP**
- RTO => Western PJM => **Dayton** (may be listed as DAY)
- RTO => Western PJM => **Duquesne** (may be listed as DLCO or DUQ)
- RTO => Western PJM => **APS**
- RTO => Western PJM => **ATSI**
- RTO => Western PJM => ATSI => **Cleveland** (may be listed as ATSI-Cleveland)
- RTO => Western PJM => **DEOK**
- RTO => Western PJM => **EKPC**
- RTO => Western PJM => OVEC
- RTO => **Dominion (**may be listed as DOM)
- RTO => **MAAC**[3]
- RTO => MAAC => **WMAAC**[4]
- RTO => MAAC => WMAAC => **MetEd**
- RTO => MAAC => WMAAC => **PPL** (may be listed as PL)
- RTO => MAAC => WMAAC => **Penelec** (may be listed as PENLC)
- RTO =>MAAC => **EMAAC**[5]
- RTO => MAAC => EMAAC => **AE (**may be listed as AECO)
- RTO => MAAC => EMAAC => **PSEG** (may be listed as PS)
- RTO => MAAC => EMAAC => PSEG => **PSEG northern region** (may be listed as PSEG N or PSNORTH)
- RTO => MAAC => EMAAC => **PECO**
- RTO => MAAC => EMAAC => **JCPL**

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3 MAAC LDA represents the Mid-Atlantic Region (MAR).

4 WMAAC LDA represents the Western Mid-Atlantic Region (WMAR)

5 EMAAC LDA represents the Eastern Mid-Atlantic Region (EMAR)

- RTO => MAAC => EMAAC => **DPL**
- RTO => MAAC => EMAAC => DPL => **DPL southern region** (may be listed as DPL S or DPLSOUTH)
- RTO => MAAC => EMAAC =>RECO
- RTO => MAAC => **SWMAAC**[6]
- RTO => MAAC => SWMAAC => **BGE**
- RTO => MAAC => SWMAAC => **PEPCO**

2.3.2 Constrained Locational Deliverability Areas (LDAs)

An LDA with Capacity Emergency Transfer Limit (CETL) less than 1.15 times Capacity Emergency Transfer Objective (CETO) will be modeled as a constrained LDA in RPM. In addition, an LDA will be modeled if (a) such LDA had a Locational Price Adder in any one or more of the three immediately preceding Base Residual Auctions; (b) such LDA is determined by PJM to likely have a Locational Price Adder based on historic offer price levels; and (c) EMAAC, SWMAAC, and MAAC LDAs will be modeled as constrained LDAs regardless of the outcome of the above tests. PJM may decide to model the LDA as a constrained LDA regardless of the outcome of the above tests if there are other reliability concerns. A Reliability Requirement and a Variable Resource Requirement Curve will be established for each constrained LDA to be modeled in the RPM Base Residual Auction. See Section 2.4, 3, and 5 of this Manual for the details on Reliability Requirement, Variable Resource Requirement Curve, and RPM Auctions, respectively. The constrained Locational Deliverability Areas that will be modeled for a particular Delivery Year with their Reliability Requirements and the VRR Curves will be posted with the BRA Planning Parameters in accordance with the posting deadline provided on the RPM Auction Schedule on the PJM website.

If an LDA clears with a Locational Price Adder in any Base Residual Auction, PJM shall perform an analysis to determine if any new generation, new demand resource or Qualifying Transmission Upgrades were cleared in that LDA in such Base Residual Auction. New generation or new demand resources include incremental upgrades to existing resources beyond historic installed capacity levels or new resource installations. If any LDA has a Locational Price Adder and if no new generation, new demand resource or Qualifying Transmission Upgrades have cleared in the LDA for two consecutive Base Residual Auctions, then PJM shall evaluate a transmission upgrade as part of the RTEPP that would reduce the Locational Price Adder to zero.

The evaluation of such transmission upgrade shall include an evaluation of the cost of the upgrade as compared to the incremental benefit of reducing Locational Price Adder to zero in the LDA. If the transmission upgrade is feasible and cost beneficial over the next ten year period, then the transmission upgrade shall be included in the Regional Transmission

6 SWMAAC LDA represents the Southwest Mid-Atlantic Region (SWMAR).

Expansion Plan as soon as possible. The annual costs of such upgrade shall (1) be allocated across zones based on each zone's pro-rata share of load in such LDA and (2) within each zone to all LSEs serving load in the LDA, pro rata based on such loads.

2.3.3 Creation of New Locational Deliverability Areas (LDAs)

A prudent planning practice is to continuously monitor system performance and study transmission constraints as they develop. Triggers and criteria to consider a new LDA are specified in ***Manual 14B:PJM Regional Transmission Planning Process, Attachment C, PJM Deliverability Testing Methods***, based on RTEP Market Efficiency Analysis and RTEP Long Term Planning. PJM will make a filing with FERC to amend RAA Schedule 10.1 to add a new LDA (including a new LDA that is an aggregate of Zones), if such new area is projected to have a CETL less than 1.15 times the CETO of the area, or if warranted by other reliability concern. In addition, any Party may propose, and PJM would evaluate, possible LDAs under such standards.

2.4 Reliability Requirements

In the PJM Capacity Market, reliability requirements, or reserve requirements, represent the target level of reserves required to meet PJM Reliability Standards and Principles. It is important to note that the Installed Reserve Margin (IRM) and the Forecast Pool Requirement (FPR) represent the level of reserves required, but are expressed in different capacity values. The IRM is expressed as the **installed capacity** reserve as a percent (e.g. 15%) of the forecast peak load, whereas the FPR (e.g., 1.079) when multiplied by forecast peak load provides the total **unforced capacity** required.

In the RPM clearing process, the Reliability Requirements for the RTO and the LDA are used to establish the target reserve levels, valued as unforced capacity that will be cleared in the RPM Auctions.

The final Reliability Requirements, used in the clearing of RPM Auctions, will be adjusted to account for entities that have elected the Fixed Resource Requirement Alternative and for EE Resources as described in Section 2.4.5 of this manual. Therefore, when known, the Unforced Capacity Obligations for FRR entities will be removed from the calculation of the Reliability Requirements for the RTO and any LDAs. Reliability Requirements for the region and for any affected LDA are further adjusted for PRD proposed in an approved PRD Plan or committed following an RPM Auction.

2.4.1 PJM Region Reliability Requirement

The PJM Region Reliability Requirement, valued in unforced capacity terms, is the RTO Peak Load Forecast, multiplied by the approved Forecast Pool Requirement for the PJM Region, less the sum of Preliminary Unforced Capacity Obligations of the FRR Entities in the PJM Region, plus any necessary adjustment for EE Resources per Section 2.4.5 of this manual, and less any

necessary adjustment for PRD proposed in an approved PRD Plan or committed following an RPM Auction.

$$RTORelReq =$$

$$\left(RTOPeakLoadForecast * FPR\right) - \Sigma\, PrelimUCapOblig_{FRR\ Entity} + Adj_{EE} - Adj_{PRD}$$

2.4.2 Reliability Requirement in Locational Deliverability Areas

The Locational Deliverability Area Reliability Requirement is the projected internal capacity[7] (in UCAP terms) in the LDA plus the Capacity Emergency Transfer Objective (CETO) for the Delivery Year, as determined by the RTEP process, less the minimum internal resources (in UCAP terms) required for the FRR Entities located in the LDA, plus any necessary adjustment for EE Resources per Section 2.4.5 of this manual, and less any necessary adjustment for PRD proposed in an approved PRD Plan or committed in any RPM Auction for PRD located in the LDA.

$$LDARelReq =$$

$$(LDAInternalCapacity + LDACETO -$$

$$MinInternalResources_{FRR\ Entity}) + Adj_{EE} - Adj_{PRD}$$

2.4.3 Deleted

2.4.3A Deleted

2.4.4 Adjustments to RPM Auction Parameters for PRD

After PRD Providers propose PRD commitments in their PRD Plans, and PJM reviews and accepts those commitments, PJM will use the resulting PRD values to reduce the reliability requirement to be satisfied for the region and for any affected Zones (or sub-Zonal LDAs). The reliability requirement will be reduced by the quantity of UCAP that would have been procured on behalf of the PRD load but that is now not needed due to the PRD loads' commitment to reduce consumption. The Reliability Requirement of the RTO and each affected LDA will be reduced by a quantity equal to the Nominal PRD Value multiplied by the FPR. These reliability requirement reductions will be considered in the development of the RTO/LDA Variable Resource Requirement Curves as explained in Section 3.4 of this manual.

[7] See Manual 20: PJM Resource Adequacy Analysis and Manual 20A.

2.4.5 Adjustments to RPM Auction Parameters for EE Resources (through the 2025/ 2026 Delivery Year only)

An Energy Efficiency (EE) Resource is a project that involves the installation of more efficient devices/equipment, or the implementation of more efficient processes/systems, exceeding then-current building codes, appliance standards, or other relevant standards, designed to achieve a permanent, continuous reduction in electric energy consumption that is not reflected in the peak load forecast prepared for the Delivery Year for which the EE Resource is proposed. Because energy efficiency measures are reflected in the peak load forecast for a Delivery Year for which an auction is being conducted, the auction parameters must be adjusted as described below for the EE Resource(s) that are proposed for that auction in order to avoid double-counting of the energy efficiency measures.[8]

For each auction, the Reliability Requirement of the RTO and each affected LDA will be increased by the total UCAP Value of all EE Resource(s) for which PJM accepted an EE M&V Plan for that auction, and upon which PJM created an EE Resource to be offered into that upcoming auction.[9] If a first-pass auction solution clears fewer EE Resource MW than the amount by which the Reliability Requirement of the RTO and each affected LDA was increased, the Reliability Requirement increase of the RTO and each affected LDA will be reduced such that it is set equal to the cleared EE MW quantity of the first-pass auction solution and the auction will be solved again. This step is repeated until the cleared EE Resource MW across the RTO equals the total EE Addback MW quantity of the RTO or until the sum of squares of the differences across all LDAs increases relative to the previous iteration. The RTO/LDA reliability requirement increases will be considered in the development of the RTO/LDA VRR Curves as explained in Section 3.4 of this manual.

[8] Effective for RPM Auctions conducted after January 2016.

[9] The increase in Reliability Requirement is accomplished in each BRA by shifting the VRR Curve of the RTO and each affected LDA to the right by the MW quantity of the increase. The increase in Reliability Requirement is accomplished in each IA by the submittal of a PJM Buy Bid in each affected LDA with the buy bid MW quantity set equal to the increase.

Section 3: Demand in the Reliability Pricing Model

Welcome to the *Demand in the Reliability Pricing Model* section of the ***PJM Capacity Market Manual***. In this section, you will find the following information:

- An overview description of demand in the Reliability Pricing Model (see "Overview of Demand in the Reliability Pricing Model")
- The definition and purpose of the Variable Resource Requirement (see "Definition and Purpose of the Variable Resource Requirement")
- The parameters of the Variable Resource Requirement (see "Parameters of the Variable Resource Requirement")
- The method for plotting the Variable Resource Requirement Curve (see "Plotting the Variable Resource Requirement Curve")
- A description of the demand curves in the Incremental Auctions (see "Demand Curves in the Incremental Auction")

3.1 Overview of Demand in the Reliability Pricing Model

In the Reliability Pricing Model, the demand for installed capacity reserve is met when supply is procured as a function of the clearing of the RPM Auctions. A demand curve is defined in advance of each RPM Auction.

In the Base Residual Auction, the demand curve is downward sloping and based on the variable resource requirement concept. In RPM, a variable resource requirement is defined as a function of price. The variable resource requirement is a family of price/quantity points that provide a specified price for various levels of resources procured relative to the Installed Reserve Margin. If the price exceeds the limit on the VRR, then the quantity of resources that is procured may be less than the IRM requirement. Alternatively, if the price is low, additional resources may be procured at a level greater than the IRM requirement. The cost of the supply that is procured at the clearing price will be allocated to the Load Serving Entities. Therefore, a variable resource requirement curve will reflect the reality that additional capacity above a target installed reserve margin nevertheless has value.

There are at least four sources of this value:

1. One source of value is that in the face of uncertain load growth, weather, and capacity availability, the probability of available capacity being less than what is required to meet load and operating reserves never reaches zero, even for large reserve margins. Thus, reserves beyond the target are valuable for reducing the risk of capacity shortfalls.
2. The second source of value is that the slope of the curve can lessen the risk of large suppliers being pivotal or otherwise able to exercise market power.

3. A third source of value is that excess resources can reduce the frequency and duration of scarcity energy prices in the system and provide energy savings to Load Serving Entities.
4. The fourth source of value is the reduction in capacity price volatility and the resulting investment risk to capacity resources, in particular to the generating resources. Lower investment costs would tend to reduce capacity prices

3.2 Definition and Purpose of the Variable Resource Requirement

As mentioned in the previous section, the Variable Resource Requirement Curve is a demand curve used in the clearing of the Base Residual Auction that defines the price for a given level of Capacity Resource commitment relative to the applicable reliability requirement. Variable Resource Requirement Curves are defined for the PJM Region and each of the constrained LDAs within the PJM region.

The purpose of the Variable Resource Requirement concept is to recognize the value of excess resources above the reliability requirement and provide revenue to resources. The price on the Variable Resource Requirement is higher when the resources are less than the reliability requirement and lower when the resources are in excess.

3.3 Parameters of the Variable Resource Requirement

Prior to the clearing of the Base Residual Auction, Variable Resource Requirement Curves are defined for the PJM Region and each of the constrained Locational Delivery Areas (LDAs) within the PJM region that are to be modeled in the auction. The Variable Resource Requirement Curves for the PJM Region and each Locational Delivery Area (LDA) are based on the following parameters defined prior to the RPM Auctions:

- A target level of reserve
- Cost of New Entry
- Net Energy & Ancillary Services (E&AS) Revenue Offset
- The Nominal PRD Value and PRD Reservation Prices that have been elected

The initial posting of the Variable Resource Requirement Curves will be based on no adjustments related to FRR Entities' Preliminary Unforced Capacity Obligations. A later posting of the Variable Resource Requirement Curves with the FRR adjustments will be made shortly after the approval of the FRR Capacity Plans for the RPM Auction Delivery Year considering any changes in the FRR elections for RPM Auction.

Note:
The parameters of the Variable Resource Requirement Curve (i.e., RTO and LDA Reliability Requirements, Cost of New Entry, and Net E&AS Revenue Offsets) will be posted with the BRA Planning Parameters in accordance with the posting deadline provided on the RPM Auction Schedule on the PJM website.

The Variable Resource Requirement Curve for the PJM Region is based on a target level (i.e., the PJM Region Reliability Requirement), Cost of New Entry, and Net Energy & Ancillary Services (E&AS) Revenue Offset.

For each LDA, the LDA Variable Resource Requirement Curve is based on a target level (i.e., the LDA Reliability Requirement), Cost of New Entry, and Net E&AS Revenue Offset.

Inclusion of Variable Resource Requirement Curves in the Base Residual Auction clearing may result in the level of resources being committed for a Delivery Year exceeding the applicable PJM Region Reliability Requirement or the LDA Reliability Requirement , if the total cost of resource procurement for the PJM Region or LDA is lower at the higher level of reliability than it would be at the target level and the associated Variable Resource Requirement Curve price.

3.3.1 Cost of New Entry

The value for Cost of New Entry (CONE) (in ICAP terms) is determined in accordance with Attachment DD of the Open Access Transmission Tariff (OATT), Section 5.10 (a) (iv). The Reference Resource is a combustion turbine (CT) generating station, configured with a single General Electric Frame 7HA turbine as defined in the OATT.

The gross Cost of New Entry values for the following four CONE Areas for the 2022/2023 Delivery Year are specified in the OATT, Attachment DD, Section 5.10 (a) (iv)(A). :

1. AE, DPL, JCPL, PECO, PSEG, RECO ("CONE Area 1");
2. BGE, PEPCO ("CONE Area 2");
3. AEP, APS, COMED, DAYTON, DLCo, ATSI, DEOK, EKPC, Dominion, OVEC ("CONE Area 3"); and
4. METED, PENELEC, PPL ("CONE Area 4").

For the 2023/2024 Delivery Year, the gross CONE values specified in the OATT for the 2022/2023 Delivery Year shall be adjusted to reflect changes in generating plant construction costs based on changes in the applicable United States Bureau of Labor Statistics (BLS) Composite Index, and then adjusted further by a factor of 1.022 to reflect the annual decline in bonus appreciation scheduled under federal tax law, to establish the CONE values used in the development of the Variable Resource Requirement Curves for the PJM Region and the modeled LDAs for all RPM Auctions for the 2023/2024 Delivery Year.

The applicable BLS Composite Index for a Delivery Year and CONE Area shall be the most recently published twelve-month change, at the time CONE values are required to be posted for the Base Residual Auction for such Delivery Year, in a composite of the BLS Quarterly Census of Employment and Wages for Utility System Construction (weighted 20%), the BLS Producer Index for Construction Materials and Components (weighted 55%), and the BLS Producer Price Index for Turbines and Turbine Generator Sets (weighted 25%). The Quarterly Census of Employment and Wages for Utility System Construction will be based on the state of New Jersey for CONE Area 1, Maryland for CONE Area 2, Ohio for CONE Area 3, and Pennsylvania for CONE Area 4.

For subsequent Delivery Years, up to and including the 2025/2026 Delivery year, the Benchmark CONE values for all CONE areas except CONE area 5 will be the CONE values used in the development of the Variable Resource Requirement Curves for the prior Delivery Year. The applicable BLS Composite Index for the Delivery Year will be applied to the Benchmark CONE values, and then multiplying the result by 1.022, to establish the CONE values for such Delivery Year for CONE areas 1 through 4 listed above.

For the 2025/2026 Delivery Year, a new CONE Area 5 encompassing only the ComEd Zone shall be established and the ComEd Zone will be removed from CONE Area 3. For the 2025/2026 Delivery Year, the Cost of New Entry for CONE Area 5 will be equal to the product of the Cost of New Entry determined for CONE Area 3 for the 2025/2026 Delivery Year multiplied by an asset life factor of 1.0069.

Through the 2024/2025 Delivery Year, the gross Cost of New Entry value for the PJM Region shall be the average of the gross CONE values for the four CONE Areas listed above. For the 2025/2026 Delivery Year, the Cost of New Entry for the PJM Region shall be the average of the Cost of New Entry for all five CONE Areas.

The gross Cost of New Entry values for the following five CONE Areas for the 2026/2027 Delivery Year are specified in the OATT, Attachment DD, Section 5.10 (a) (iv)(C):

1. AE, DPL, JCPL, PECO, PSEG, RECO ("CONE Area 1");

2. BGE, PEPCO ("CONE Area 2");

3. AEP, APS, DAYTON, DLCo, ATSI, DEOK, EKPC, Dominion, OVEC ("CONE Area 3"); and

4. METED, PENELEC, PPL ("CONE Area 4").

5. COMED ("CONE Area 5")

For the 2026/2027 Delivery Year and subsequent Delivery Years, the gross Cost of New Entry value for the PJM Region shall be the average of the gross CONE values for the five CONE Areas. For the 2027/2028 Delivery Year, the gross CONE values specified in the OATT for the 2026/2027 Delivery Year for each CONE Area (except for CONE Area 5) shall be adjusted to

reflect changes in generating plant construction costs based on changes in the applicable United States Bureau of Labor Statistics (BLS) Composite Index to establish the CONE values used for the 2027/2028 Delivery Year for CONE Areas 1 through 4.

The applicable BLS Composite Index for a Delivery Year and CONE Area shall be the most recently published twelve-month change, at the time CONE values are required to be posted for the Base Residual Auction for such Delivery Year, in a composite of the BLS Quarterly Census of Employment and Wages for Utility System Construction (weighted 40%), the BLS Producer Index for Construction Materials and Components (weighted 45%), and the BLS Producer Price Index for Turbines and Turbine Generator Sets (weighted 15%). The Quarterly Census of Employment and Wages for Utility System Construction will be based on the state of New Jersey for CONE Area 1, Maryland for CONE Area 2, Ohio for CONE Area 3, and Pennsylvania for CONE Area 4.

For subsequent Delivery Years, the Benchmark CONE values for all CONE areas except for CONE Area 5 will be the CONE values used in the development of the Variable Resource Requirement Curves for the prior Delivery Year. The applicable BLS Composite Index for the Delivery Year will be applied to the Benchmark CONE values to establish the CONE values used for such Delivery Year for CONE Areas 1 through 4.

For the 2027/2028 Delivery Year through and including the 2029/2030 Delivery Year, the CONE for CONE Area 5 for a given delivery year shall be set equal to the product of the CONE of CONE Area 3 as determined for the relevant Delivery Year, multiplied by the asset life factor applicable to that Delivery Year where such asset life factors are 1.0376 for the 2027/2028 Delivery Year, 1.0581 for the 2028/2029 Delivery Year, and 1.0818 for the 2029/2030 Delivery Year.

3.3.2 Net Energy and Ancillary Services Offset

Pursuant to Attachment DD, Section 5.10(a)(v and v-1) of the PJM Tariff, PJM determines a Net Energy and Ancillary Services (E&AS) Revenue Offset for the PJM Region and for each Zone.

For Delivery Years 2023/2024 through and including 2025/2026

The Net E&AS Revenue Offset for the PJM Region for a Delivery Year is (a) the annual average of the revenues that would have been received by the Reference Resource from the PJM energy markets during a period of three consecutive calendar years preceding the Base Residual Auction for such Delivery Year plus (b) an assumed value for ancillary services revenues ($/MW-year) as set forth in Attachment DD, Section 5.10(a)(v) of the PJM Tariff.

The annual average of energy revenues for the PJM Region is based on (1) heat rate and other characteristics of such Reference Resource; (2) daily natural gas prices averaged across the fuel pricing points specified in the table below with a fuel transmission adder appropriate for the PJM region; (3) assumed variable operation and maintenance expenses for such Reference

Resource as set forth in Attachment DD, Section 5.10(a)(v) of the PJM Tariff; (4) actual PJM hourly average LMP prices recorded in the PJM Region during such period; and (5) an assumption that the Reference Resource would be dispatched for both Day-Ahead and Real-Time Energy Markets on Peak-Hour Dispatch basis.

The Net E&AS Revenue Offset for each Zone for a Delivery Year is determined using the same procedures and methods used to determine the Net E&AS Revenue Offset for the PJM Region; provided, however, that (1) actual hourly average LMPs for such Zone shall be used in place of the PJM Region hourly average LMPs; and (2) daily natural gas prices at the fuel pricing points specified in the table below in this section 3.3.2 with a fuel transmission adder appropriate to the zone.

Peak-Hour Dispatch means, for purposes of calculating the energy revenues in the Energy and Ancillary Services Revenue Offset, that the Reference Resource is committed in the Day-Ahead Energy Market in four distinct blocks of four hours of continuous output for each block from the peak-hour period beginning with the hour ending 0800 EPT through to the hour ending 2300 EPT for any day when the average day-ahead LMP for the area for which the Net Cost of New Entry is being determined is greater than, or equal to, the cost to generate (including the cost for a complete start and shutdown cycle) for at least two hours during each four-hour block, where such blocks shall be assumed to be committed independently; provided that, if there are not at least two economic hours in any given four-hour block, then the Reference Resource shall be assumed not to be committed for such block; and to the extent not committed in any such block in the Day-Ahead Energy Market under the above conditions based on Day-Ahead LMPs, is dispatched in the Real-Time Energy Market for such block if the Real-Time LMP is greater than or equal to the cost to generate under the same conditions as described above for the Day-Ahead Energy Market.

For the 2026/2027 Delivery Year and subsequent Delivery Years

The Net E&AS Revenue Offset for the PJM Region for a Delivery Year is the annual average of the revenues that the Reference Resource is projected to receive from the PJM energy and ancillary service markets from three separate simulations, with each simulation using forward prices shaped using historical data from one of the three consecutive calendar years preceding the time of the determination for the RPM Auction to take account of year-to-year variability in such shapes. The projected Net E&AS Revenue Offset will be determined for the PJM Region and each Zone as specified in Attachment DD, Section 5.10(a)(v-1) of the PJM Tariff

The annual average of energy revenues for the PJM Region is based on (1) heat rate and other characteristics of such Reference Resource; (2) forward daily natural gas prices averaged across the fuel pricing points specified in the table above with a fuel transmission adder appropriate for the PJM region; (3) assumed variable operation and maintenance expenses for such Reference Resource; (4) Forward Hourly LMPs for the PJM Region; (4) Forward Hourly Ancillary Services Prices; and (5) an assumption that the Reference Resource would be dispatched on a Projected EAS Dispatch basis.

Projected EAS Dispatch means, for purposes of calculating the Net Energy and Ancillary Services Revenue Offset, a simulated dispatch with the objective of committing and dispatching a resource for the purpose of maximizing its net revenues. The calculation shall take inputs including Forward Hourly LMPs, Forward Hourly Ancillary Service Prices, and Forward Daily Natural Gas Prices or forecasted fuel prices, as applicable, in addition to the operating parameters and costs of the specific resource, including the cost emission allowances. Using operating parameters, forward or forecasted fuel prices, as applicable and other cost pricing inputs, a composite, cost-based energy offer is created for the resource such that its commitment and dispatch is co-optimized between energy and ancillary services in the Day-Ahead Energy Market and then the Real-Time Energy Market considering the electricity and ancillary service price inputs. In the Real-Time Energy Market co-optimization, the resource is assumed to be operating in the hours it was scheduled in the Day-Ahead Energy Market but is dispatched according to the real-time price inputs. In the hours where the resource was not committed in the Day-Ahead Market, the resource may be committed and dispatched in real-time only subject to the real-time electricity and ancillary service price inputs and the resource's offer and operating parameters.

The Net E&AS Revenue Offset for each Zone is determined using the same procedures and methods used to determine the Net E&AS Revenue Offset for the PJM Region; provided, however, that (1) Forward Hourly LMPs of each such Zone are used in place of the Forward Hourly LMPs of the PJM Region; and (2) forward daily natural gas prices are used for each such Zone based on the fuel price point to Zone mapping shown in the table below.

The Forward Hourly LMPs, Forward Hourly Ancillary Service Prices and Forward Daily Natural Gas Prices used in the calculation of the Net E&AS Revenue Offset are determined as defined in Attachment DD, Section 5.10(a)(v-1) of the PJM Tariff.

In the determination of Forward Hourly LMPs, the ComEd Zone is mapped to N. Illinois Hub, the AEP, ATSI, DAY, DEOK, DUQ, EKPC and OVEC Zones are mapped to the AEP-Dayton Hub, and all other Zones are mapped to the Western Hub. In addition, several of the fuel pricing points of the table below lack sufficient liquidity and are therefore mapped to more liquid hubs for the purposes of calculating Forward Daily Natural Gas Prices. For the purpose of calculating Forward Daily Natural Gas Prices, Transco-Z6 (non-NY) is used in place of Transco-Z5 Dlv and Transco-Z6 (NY)

Zone to Fuel Pricing Point Mapping

The fuel pricing point used for the purpose of establishing the Net E&AS Offset for each Zone is provided in the table below.

Zone	Fuel Pricing Point
AE, BGE, DPL, & JCPL	Transco-Z6 (non-NY)

Zone	Fuel Pricing Point
COMED	Chicago Citygates
DUQ, METED, PECO, & PPL	TETCO M3
PEPCO & DOM	Transco Z5 Dlv
AEP, OVEC	Columbia-Appalachia TCO
DAY, DEOK, ATSI, EKPC	Mich Con
APS & PENELEC	Dominion South
PSEG & RECO	Transco Z6 (NY)

3.3.3 Net Cost of New Entry

The Net Cost of New Entry (Net CONE) for the PJM Region is the gross Cost of New Entry for the PJM Region minus the Net E&AS Revenue Offset for the PJM Region.

PJM shall determine the Net Cost of New Entry for each Zone that comprises the modeled LDA. The Net Cost of New Entry for a Zone is the applicable gross Cost of Net Entry value for such Zone minus the Net E&AS Revenue Offset for such Zone. The Net Cost of New Entry for the Zone is used for a sub-zonal LDA. The Net Cost of New Entry for a modeled LDA shall be the average of the Net CONE values of all zones within the modeled LDA.

3.4 Plotting the Variable Resource Requirement Curve

For the 2022/2023 Delivery Year through and including the 2024/2025 Delivery Year, the Variable Resource Requirement Curve is plotted on a graph on which Unforced Capacity is on the x-axis and price is on the y-axis using the following three points a, b, and c:

a. The price is equal to the greater of [the Cost of New Entry or 1.5 times (the Cost of New Entry minus the Net E&AS Revenue Offset, referred to as "Net CONE")] divided by (one minus Pool-Wide Average EFORd) and Unforced Capacity is equal to [PJM Region Reliability Requirement[10] multiplied by (100% plus the approved IRM% minus 1.2%) divided by (100% plus approved IRM %)].

[10] The Reliability Requirement used in the unforced capacity quantity equation for points (a), (b), and (c) excludes any adjustment for PRD or EE (through the 2025/2026 Delivery Year for EE only). The VRR Curve that results is adjusted leftward to reflect the impact of PRD and rightward to reflect the impact of EE through the 2025/2026 Delivery Year as explained in section 3.4.1 of this manual.

Basis for Price at Point a:

$$\frac{Greaterof\ [CONEor1.5\ (CONE - E\ \&\ AS)]}{1 - Pool\ Wide\ EFORd}$$
$$\frac{Greaterof\ [CONEor1.5\ (CONE - E\ \&\ AS)]}{1 - Pool\ Wide\ EFORd}$$

Basis for Quantity at Point a:

$$\begin{bmatrix} RelReq\ \frac{(100\% + IRM - 1.2\%)}{(100\% + IRM)} \\ RelReq\ \frac{(100\% + IRM - 1.2\%)}{(100\% + IRM)} \end{bmatrix}$$

b. The price is equal to 0.75 times Net CONE divided by (one minus Pool-Wide Average EFORd) and Unforced Capacity equals [PJM Region Reliability Requirement multiplied by (100% plus the approved IRM% plus 1.9%) divided by (100% plus approved IRM%)]..

Basis for Price at Point b:

$$\frac{[0.75\ (CONE - E\ \&\ AS)]}{1 - Pool\ Wide\ EFORd}$$
$$\frac{[0.75\ (CONE - E\ \&\ AS)]}{1 - Pool\ Wide\ EFORd}$$

Basis for Quantity at Point b:

$$\begin{bmatrix} RelReq\ \frac{(100\% + IRM + 1.9\%)}{(100\% + IRM)} \\ RelReq\ \frac{(100\% + IRM + 1.9\%)}{(100\% + IRM)} \end{bmatrix}$$

c. The price is equal to zero and Unforced Capacity equals [PJM Region Reliability Requirement multiplied by (100% plus the approved IRM% plus 7.8%) divided by (100% plus approved IRM %)].

Basis for Price at Point c:

$$\$0 / MW - day$$
$$\$0 / MW - day$$

Basis for Quantity at Point c:

$$\begin{bmatrix} RelReq\ \frac{(100\% + IRM + 7.8\%)}{(100\% + IRM)} \\ RelReq\ \frac{(100\% + IRM + 7.8\%)}{(100\% + IRM)} \end{bmatrix}$$

For the 2025/2026 Delivery Year only, the Variable Resource Requirement Curve is plotted on a graph on which Unforced Capacity is on the x-axis and price is on the y-axis using the following three points a, b, and c:

a. The price is equal to the greater of [the Cost of New Entry or 1.5 times (the Cost of New Entry minus the Net E&AS Revenue Offset, referred to as "Net CONE")] divided by (the applicable

ELCC Class Rating of the Reference Resource) and Unforced Capacity is equal to (PJM Region Reliability Requirement multiplied by 98.9%).

b. The price is equal to 0.75 times Net CONE divided by (the applicable ELCC Class Rating of the Reference Resource) and Unforced Capacity equals (PJM Region Reliability Requirement multiplied by 101.6%).

c. The price is equal to zero and Unforced Capacity equals (PJM Region Reliability Requirement multiplied by 106.8%).

For the 2026/2027 and 2027/2028 Delivery Years, the Variable Resource Requirement Curve for the PJM Region shall be plotted by a horizontal line from the y-axis equal to $256.75/MW-day ICAP divided by the applicable ELCC Class Rating for the Reference Resource until such line intersects the curve that is based on the following: (i) a straight line connecting points (1) and 2), and (ii) a straight line connecting points (2) and (3), where:

- For point (1), price equals: {the greater of [the Cost of New Entry] or [1.75 times (the Cost of New Entry minus the Net Energy and Ancillary Service Revenue Offset)]} divided by (the applicable ELCC Class Rating of the Reference Resource) and Unforced Capacity equals: [the PJM Region Reliability Requirement multiplied by 99%];
- For point (2), price equals: [0.75 times (the Cost of New Entry minus the Net Energy and Ancillary Service Revenue Offset)] divided by (the applicable ELCC Class Rating of the Reference Resource) and Unforced Capacity equals: [the PJM Region Reliability Requirement multiplied by 101.5%]; and
- For point (3), price equals zero and Unforced Capacity equals: [the PJM Region Reliability Requirement multiplied by 104.5%].

Once the horizontal line intersects above the curve, the Variable Resource Requirement Curve shall follow the curve that is based on the above points until the price reaches $138.25/MW-day ICAP divided by the applicable ELCC Class Rating of the Reference Resource, at which point it shall be extended as a horizontal line at $138.25/MW-day ICAP divided by the applicable ELCC Class Rating of the Reference Resource to infinity.

3.4.1 Plotting the Variable Resource Requirement Curves

The graph below illustrates the process for plotting the Variable Resource Requirement curve. The VRR Curve is plotted by combining a horizontal line from the y-axis to point (a), a straight line connecting points (a) and (b), a straight line connecting points (b) and (c).

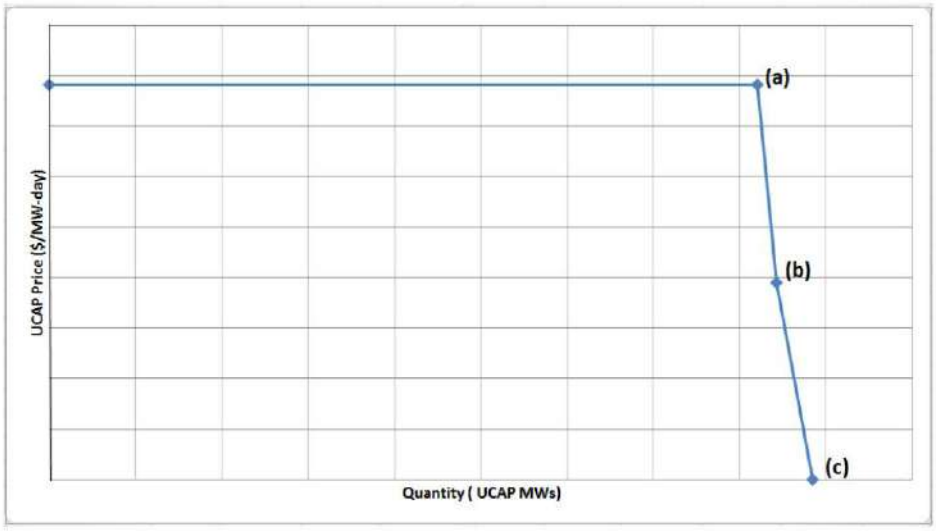


Exhibit 1: Illustrative Example of a Variable Resource Requirement Curve

The same process shall be used to establish the Variable Resource Requirement Curve for each LDA, except that the Locational Deliverability Area Reliability Requirement for such LDA shall be substituted for the PJM Region Reliability Requirement, and the FRR adjustments will be for the FRR Entities in the LDA.

Beginning with the 2018/2019 Delivery Year and continuing no later than for every fourth Delivery Year thereafter, PJM will perform a review of the shape of the Variable Resource Requirement Curve, CONE values, and Energy & Ancillary Services methodology, and any FERC approved changes resulting from this review will be incorporated into the appropriate BRA Auctions.

The Variable Resource Requirement Curve will be further adjusted to reflect the impact of any PRD that is proposed in a PRD Plan and that is reviewed and accepted by PJM. To reflect accepted PRD Plans, the Variable Resource Requirement Curve will be shifted leftward along the horizontal axis by a quantity equal to the Nominal PRD Value multiplied by the FPR. This quantity represents the quantity of Unforced Capacity that would have been procured in the RTO on behalf of the PRD load but that is now not needed due to the PRD loads' commitment to reduce consumption. The curve will be shifted leftward in this manner only for those portions of the curve that are at or above the PRD Reservation Price, since the PRD load can be excluded only if the auction clears at or above that price. The Variable Resource Requirement Curve for each LDA in which the PRD resides (including the RTO curve) will be shifted in the exact same manner.

The Variable Resource Requirement Curve will be further adjusted to reflect the impact of any EE addback through the 2025/2026 Delivery Year. The Variable Resource Requirement Curve

will be shifted rightward along the horizontal axis by a quantity equal to the EE addback MW quantity as explained in Section 2.4.5. The Variable Resource Requirement Curve for each LDA in which EE resides (including the RTO curve) will be shifted in the exact same manner.

3.5 Demand Curves in the Incremental Auctions

The First, Second and Third Incremental Auctions provide both a forum for capacity suppliers to purchase replacement capacity, and a means for PJM to adjust previously committed capacity levels due to reliability requirement increases or decreases. The demand curve in these auctions will be built based on a combination of buy bids submitted by market participants and buy bids, if any, submitted by PJM.

PJM will recalculate the RTO and each LDA Reliability Requirement prior to each of the First, Second, and Third Incremental Auctions based on an updated peak load forecast, updated Installed Reserve Margin, and an updated Capacity Emergency Transfer Objective. The recalculated Reliability Requirements are compared to the Reliability Requirements used in the prior auction for the same Delivery Year and a determination is made as to the need for the procurement and/or sale of capacity by PJM.

For the RTO and each LDA, PJM will sum the following component quantities to determine the total quantity that it will seek to procure or release in each Incremental Auction:

- The difference between the Updated Reliability Requirement minus the Reliability Requirement utilized in the most recent prior auction conducted for that Delivery Year. For a 1st or 2nd Incremental Auction, this difference is only considered if the change in Reliability Requirement is greater than the lesser of 500 MW or 1% of the prior auction's Reliability Requirement. Note that this quantity is negative if the Updated Reliability Requirement is less than the Reliability Requirement utilized in the most recent prior auction.
- Plus/minus the amount of committed capacity that PJM sought to procure/release that did not clear in the prior Incremental Auction for the same Delivery Year.
- Plus the amount of non-viable commitments associated with transition provision of OATT, Attachment DD, Section 5.5A(c)(i)(B) (i.e., Prior CIL Exception External Resources electing prior to Delivery Year Third Incremental Auction to be relieved of their capacity obligation for such Delivery Year) and RAA, Schedule 6, section L.9 (i.e., EE Resources electing prior to Delivery Year Third Incremental Auction to be relieved of their capacity obligation for such Delivery Year due to prohibition of EE participation by a Relevant Electric Retail Regulatory Authority).
- Minus any capacity PJM seeks to release in a parent LDA as a result of any Conditional Incremental Auction commitments for the same Delivery Year.

If the result of such summation is a positive quantity, PJM will seek to procure such quantity by employing a PJM buy bid represented by the portion of the Updated VRR Curve Increment extending right from the left-most portion on that curve in a MW amount equal to the positive

quantity. PJM will employ a PJM buy bid represented by the entire portion of the Updated VRR Curve if the prior auction's RTO/LDA Reliability Requirement exceeds the total capacity committed in all prior auction's by the threshold (lesser of 500 MW or 1% of prior auction's Reliability Requirement).The Updated VRR Curve Increment is the portion of the Updated VRR Curve to the right of a vertical line at the level of Unforced Capacity on the x-axis of such curve equal to the net Unforced Capacity committed to the PJM Region as a result of all prior auctions conducted for such Delivery Year (adjusted, if applicable, by change in Unforced Capacity commitments associated with transition provision of OATT, Attachment DD, Section 5.5A(c)(i)(B) and RAA Schedule 6, section L.9).

If the result of such summation is a negative quantity, PJM will seek to release such quantity by employing a PJM sell offer represented by the portion of the Updated VRR Curve Decrement extending and ascending to the left from the right-most portion on that curve in a MW amount equal to the negative quantity. The Updated VRR Curve Decrement is the portion of the Updated VRR Curve to the left of a vertical line at the level of Unforced Capacity on the x-axis of such curve equal to the net Unforced Capacity committed to the PJM Region as a result of all prior auctions conducted for such Delivery Year (adjusted, if applicable, by change in Unforced Capacity commitments associated with transition provision of OATT, Attachment DD Section 5.5A(c)(i)(B) and RAA, Schedule 6, section L.9).

In a Conditional Incremental Auction, the quantity at the appropriate location required to address the identified reliability violation will be procured using a Buy Bid equal to 1.5 times Net CONE.

Section 3A: Integration of Price Responsive Demand

Welcome to the *Integration of Price Responsive Demand* section of the ***PJM Manual for the PJM Capacity Market***. In this section, you will find the following information:

- An overview of Price Responsive Demand in PJM Capacity Market (see "Overview of Price Responsive Demand in PJM Capacity Market")
- The transition period for price responsive demand (see "Transition Period")
- The eligibility requirements for price responsive demand participation in PJM Capacity Market (see "Eligibility Requirements for Price Responsive Demand")
- The PRD Plan requirements (see "PRD Plan Requirements")
- The registration requirements of price responsive demand (see " Registration of Price Responsive Demand")
- The performance requirements of price responsive demand in the delivery year (see "Performance Requirements of Price Responsive Demand")
- The bilateral transfer of a price responsive demand obligation (see "PRD Bilaterals")

3A.1 Overview of Price Responsive Demand in PJM Capacity Market

The development and implementation of dynamic and time-differentiated retail rates, together with utility investment in advanced metering infrastructure (AMI) has lead an increasing quantity of load in PJM to be responsive to changing wholesale prices. Through enabling technology and behavioral changes, consumers modify their demand as prices change without being centrally dispatched by PJM or bidding demand reductions into the PJM markets. Given the linkage between dynamic retail rate structures and wholesale prices, this price responsiveness is predictable and needs to be accounted for in the wholesale market design and operations. This predictable reduction in consumption in response to changing wholesale prices is known as Price Responsive Demand (PRD).

Although Price Responsive Demand is not directly dispatchable by PJM, automated retail customer response to real time energy prices signals can produce a predictable demand curve as a function of real time energy price. Prices typically increase during capacity emergencies and as a consequence demand drops. Price Responsive Demand will therefore be able to reduce the installed capacity required to meet Loss of Load Expectation (LOLE) based reliability standards.

PRD is provided by a PJM Member that represents retail customers that have the capability to reduce load in response to price. PJM Member acting on behalf of such retail customers for the purpose of providing PRD is referred to as the PRD Provider. A PRD Provider for a given retail customer must meet all of the eligibility requirements for providing PRD.

In the PJM Capacity Market, a PRD Provider may voluntarily make a firm commitment of the quantity of Price Responsive Demand that will reduce its consumption in response to real time energy price during a Delivery Year.

In order to commit PRD for a Delivery Year, a PRD Provider must submit a PRD Plan in advance of the Base Residual Auction or Third Incremental Auction for such Delivery Year that demonstrates to PJM's satisfaction that the maximum nominated amount of price responsive demand will be available by the start of the Delivery Year. Additional PRD may participate in the Third Incremental Auction only in the event, and to the extent that the LDA final peak load forecast for the Delivery Year increases relative to the LDA preliminary peak load forecast used for the Base Residual Auction.

A PRD Provider that is committing PRD in Base Residual Auction or Third Incremental Auction must also submit a PRD election in the Capacity Exchange system which indicates the Nominal PRD Value in MWs that the PRD Provider is willing to commit at different reservation prices ($/MW-day). The PRD election by PRD Providers will result in a change in the shape of the RTO/LDA VRR Curves used in the RPM Auctions. Based on the PRD elections and Resource Clearing Price in the RPM Auction, PJM will determine the Nominal PRD Value committed by each PRD Provider. Those PRD Providers that elected to provide PRD at reservation prices equal to or less than the Resource Clearing Price will have the corresponding value of PRD committed in the RPM Auction.

A PRD Provider that is committing PRD which is associated with load being served under the Fixed Resource Requirement Alternative is not required to submit a PRD election. The FRR Entity's Preliminary Daily Unforced Capacity Obligation to be satisfied in the FRR Entity's initial submittal of their FRR Capacity Plan for the Delivery Year will be reduced by the Nominal PRD Value associated with their FRR load that was approved by PJM in advance of the BRA, multiplied by the BRA Forecast Pool Requirement. The Final Daily Unforced Capacity Obligation of the FRR Entity that must be satisfied in the FRR Entity's FRR Capacity Plan for the Delivery Year will be reduced by the total Nominal PRD Value associated with their FRR load that was approved by PJM in advance of the Base Residual Auction and Third Incremental Auction for the Delivery Year, multiplied by the final Forecast Pool Requirement. The approval of the PRD Provider's PRD Plan associated with the FRR load shall establish a firm commitment of the PRD Provider to the PJM approved sub-zonal/zonal Nominal PRD Value.

Once committed in a Base Residual Auction, Third Incremental Auction or committed for load served under the FRR Alternative, Price Responsive Demand may not be uncommitted or replaced by available capacity resources or Excess Commitment Credits. However, a PRD Provider may transfer the PRD obligation to another PRD Provider bilaterally.

A PRD Provider with a committed sub-zonal/zonal Nominal PRD Value through an RPM Auction or through the FRR Alternative will be required to register sub-zonal/zonal PRD prior to the start of the Delivery Year to satisfy their PRD commitment. Failure to register enough price responsive loads to meet their sub-zonal/zonal PRD commitment prior to the start of the

Delivery Year or failure to maintain enough price responsive loads to meet their sub-zonal/zonal PRD commitment throughout the Delivery Year will result in a PRD Commitment Compliance Penalty.

A PRD Provider is subject to Non-Performance Assessment during the Delivery Year. Failure to comply during a Performance Assessment Interval will result in a Non-Performance Charge for such interval. If PJM does not have an Emergency Action that triggers a Non-Performance Assessment during the Delivery Year that requires a PRD registration to reduce to the Firm Service Level (FSL) in the registration, then PRD registrations in the zone that did not have compliance measured for a Performance Assessment Interval during the Delivery Year must demonstrate that such registrations were tested for a one-hour period during any hour from 10:00 AM EPT to 10:00 PM EPT during June through October or the following May of the relevant Delivery Year. Failure of such PRD registrations in the zone to reduce to the aggregate FSL levels of such registrations in a test will result in a PRD Test Failure Charge.

The PRD Provider will receive a Daily PRD Credit ($/MW-day) during the Delivery Year. A PRD Provider under the FRR Alternative will not be eligible to receive a Daily PRD Credit ($/MW-day) during the Delivery Year.

3A.2 Deleted

3A.3 Eligibility Requirements of Price Responsive Demand

In order for load to be eligible to be considered as Price Responsive Demand, the end-use customer load must be:

- served under a dynamic retail rate structure with an LSE or subject to a contractual arrangement with a PRD Provider where such rate or compensation arrangement can change on an hourly basis, is linked to or based upon a PJM real-time LMP trigger at a substation location within a transmission zone as electrically close as practical to the applicable load, and results in predictable response to varying wholesale electricity prices;
- subject to advanced metering capable of recording electricity consumption at an interval of one hour or less;
- subject to Supervisory Control as defined in the Reliability Assurance Agreement to curtail the demand should PJM declare an emergency condition; and
- Shall exclude Critical Natural Gas Infrastructure

Supervisory Control of customer load registered as Price Responsive Demand is required on the part of the PRD Provider consistent with any Relevant Electric Retail Regulatory Authority (RERRA) requirements. RERRA shall have the meaning specified in the PJM Operating Agreement. Prior to the 2022/2023 Delivery Year, to the extent load was not already reduced, the PRD Provider is required to have the remote capability to decrease the load at each location contained in the PRD Registration to the required service level when a PJM Maximum

Emergency event has been declared and the Real-time LMP at the applicable location has exceeded the level at which the load has committed to reduce. Effective with the 2022/2023 Delivery Year, to the extent load was not already reduced, the PRD Provider is required to have remote capability to decrease the load at each location contained in the PRD Registration to the required service level when an Emergency Action triggers a Performance Assessment Interval and the Real-time LMP at the applicable location has exceeded the level at which the load was committed to reduce. PRD Providers with committed PRD are required to have automation of PRD that is needed to respond to Real Time LMPs for the PRD Curves that are submitted in the PJM Energy Market. Automation of load response to LMP trigger without manual intervention is required to be PRD.

However, PRD Providers may request an exception to the automation requirement for end-use customers that are a single site, a single location and a single end-use customer with supervisory control over processes with which load reduction would be accomplished. In this case, the end use customer site is eligible for this specific exception from standard automation requirement, but the end-use customer is still required to respond within 15 minutes to Real Time LMPs for the PRD Curves that are submitted in the PJM Energy Market. Effective with 2022/2023 Delivery Year, PRD registrations with an approved exception to the automation requirement will not have compliance measured during the Performance Assessment Intervals that fall within the 15 minute response allowance.

The customer load must be on a dynamic retail rate structure with an LSE or subject to a contractual arrangement with a PRD Provider that results in retail charges or credits to the end use customer that are linked to or based on the Real Time LMP. Multiple retail rates or contractual arrangements could qualify for this requirement, such as a structure where the retail charge or credit to the end-use customer is greater than or equal to the Real-time LMP, or applies only when the Real Time LMP exceeds a preset threshold. Dynamic retail rate structures, based on PJM Real-time LMP, that qualify as Price Responsive Demand may include:

- Critical Peak Pricing that allows retail rates to rise when the wholesale market price exceeds a threshold level;
- Critical Peak Rebate pricing which provides bill credits to consumers who reduce their usage below a baseline quantity during periods when the wholesale market price exceeds a threshold level; or
- Real-Time Pricing based on LMP.

3A.4 PRD Plan Requirements

3A.4.1 PRD Plan Submission & Approval Process

A PRD Provider that wishes to nominate PRD load for a Delivery Year's Base Residual Auction or nominate PRD to reduce an FRR Entity's preliminary unforced capacity obligation must submit a PRD Plan by email via the RPM Hotline at rpm_hotline@pjm.com no later than

January 15 immediately prior to the Delivery Year's Base Residual Auction. Additional PRD may be nominated in an LDA in the Third Incremental Auction in the event and to the extent that the LDA final peak load forecast used in Third Incremental Auction increases relative to LDA preliminary peak load forecast used in the Base Residual Auction. Nomination of additional PRD load in an LDA for a Delivery Year's Third Incremental Auction when LDA peak load forecast increases may be made by submitting a PRD Plan by email via the RPM Hotline at rpm_hotline@pjm.com no later than January 15 immediately prior to the Delivery Year's Third Incremental Auction. Nomination of additional PRD for use in reducing an FRR Entity's final unforced capacity obligation for the Delivery Year may also be made by submitting a PRD Plan by email via the RPM Hotline at rpm_hotline@pjm.com no later than January 15 prior to the Delivery Year's Third Incremental Auction.

Once received by PJM, the PRD Provider will receive an email confirmation that their plan has been received and will be reviewed by PJM. PJM will review the content to ensure the PRD Plan contains all the necessary detail and information. PJM will notify the PRD Provider within 10 days of receipt of the PRD Plan and indicate whether or not the PRD Plan is approved or rejected. Any submitted plan that is incomplete or falls short of meeting the informational requirements of a PRD Plan by such January 15 deadline shall be rejected.

A PRD Provider must submit a PRD Plan no later than January 1, prior to a Base Residual Auction or Third Incremental Auction if the PRD Provider wants PJM to conduct an advance review of their PRD Plan. PJM will review the content of the PRD Plan and will notify the PRD Provider within 10 days of receipt of the PRD Plan if the submitted PRD Plan is approved or rejected. If the PRD Plan is rejected, PJM will provide to the PRD Provider a list of the areas in the PRD Plan that were not adequate. PRD Plans that are denied by PJM in an advance review may be corrected and resubmitted no later than January 15, prior to the Base Residual Auction or Third Incremental Action. Alternately, PJM may approve a lower maximum Nominal PRD Value supported by the PRD Plan.

To help a PRD Provider prepare and submit a PRD Plan by the January 15 deadline, the following information will be made available:

- Prior year summer weather normalized zonal peak loads posted by PJM by October 31. The summer weather normalized zonal peak loads will be developed from hourly metered zonal loads that include add backs due to demand response and price responsive demand in accordance with ***PJM Manual 19, Load Forecasting and Analysis***.
- Customer PLCs developed and made available by EDCs based on prior year summer weather normalized Zonal peak loads by December 31.

3A.4.2 Required Components of a PRD Plan

The PRD Plan is a document submitted by the PRD Provider that defines and provides data to support a PRD Provider's maximum Nominal PRD Value in a Zone or sub-zone LDA (for example, if nominating PRD in DPL South or PS North). The PRD plan must identify any methods and techniques that will be used to determine and verify the quantity of load consumed

at varying wholesale price levels. A single PRD Plan may be submitted to cover multiple Sub-zone/Zone locations, provided that the price-demand curves are submitted on a Sub-zone/Zone level. All of the assumptions, procedures, and data for the PRD Plan should be clearly documented. The data included should be sufficient for a third party to audit the procedures and verify the PRD Provider's maximum Nominal PRD Value in a Sub-zone/Zone.

The PRD Plan must detail the price responsive characteristic of the customer load at a zonal or sub-zonal LDA (for example, if load is in PSEG-North or DPL-South) level. If known, the PRD Plan should detail the price responsive characteristics at a substation level. The price responsive characteristic of such customer loads must be provided in terms of the quantity of load that will continue to consume at various levels of price.

Estimates of the substation/sub-zonal/zonal peak load contribution (PLC) values of such PRD Provider's price responsive load for the Delivery Year if such load were not to be reduced in response to price are to be provided in the PRD Plan. The substation/ sub-zonal/zonal PLC values will be aggregated to determine the Zonal/LDA PLC value for the PRD Provider in such Zone/LDA. In addition, an estimate of the representative loss factor for the Zone/LDA is to be provided. The Firm Service Level (FSL) is the level to which the price-responsive load will be reduced during the Delivery Year when an Emergency Action triggers a Performance Assessment Interval during the Delivery Year. The quantity of load that will be consumed at a price equal to the applicable energy market offer cap for the relevant Delivery Year represents the FSL. The locational FSL quantities (at substation/sub-zonal/zone) will be aggregated to determine the Zonal/LDA FSL quantity for the PRD Provider in such zone/LDA. For the purposes of the PRD Plan, the PRD Provider's Nominal PRD Value for a Zone/LDA is the Zonal/LDA PLC value minus (the Zonal/LDA FSL quantity times the loss factor).

A Price Responsive Demand (PRD) Plan submitted to PJM must include:

- Company name
- Submission date
- Company address and contact information
- Indication of whether price responsive demand is being nominated for an RPM Auction or for use in reducing an FRR Entity's unforced capacity obligation
- Location of Price Responsive Demand by applicable electrical location within a transmission zone (i.e., PNODE), if available at the time of submittal of PRD Plan, or by Sub-zone/Zone. At the time of the submittal of PRD Plan, the PRD Provider may provide data at the smallest LDA level, but the PRD Provider is required to provide final locational detail (i.e., PNODE) prior to Delivery Year.
- Peak Load Contribution Value of PRD by applicable electrical location, if available, or by Sub-zone/Zone Firm Service Level (FSL) of Price Responsive Demand by applicable electrical location, if available, or by Sub-zone/Zone Nominal PRD Value by applicable electrical location, if available, or by Sub-zone/Zone. The smallest increment that may be submitted for a Sub-zone/Zone is .1 MW.

- PRD Reservation Price, elected by PRD Provider as defined in section 3A.4.2.3
- Price-Demand curves at the applicable electrical location, (PNODE)/Sub-zone/Zone level, detailing the base electricity consumption level as well as the decreasing consumption levels (i.e., demand levels) at increasing wholesale energy prices (i.e., real-time LMPs).
- A description of the methodologies, analysis, or pilot programs used to determine the aggregate Zonal/LDA Peak Load Contribution value, aggregate Zonal/LDA FSL value, and Price-Demand Curves. Specifications of the equipment used to meet the advanced metering and supervisory control requirements, including a project plan and timeline with the milestones that demonstrates that the AMI and supervisory control will be available and operational for the start of the Delivery Year.
- Documentation conformation to Section 3A.4.2.3 below, verifying that the contractual arrangement with relevant end-use customers establishing a time-varying retail rate structure that conforms to any RERRA requirements and adheres to PRD implementation standards as specified in PJM RAA, PJM Operating Agreement, PJM OATT and PJM Manuals.
- AMI is required in support of the PRD installation:
  - In jurisdictions where the PRD program is under the jurisdiction of a RERRA, the PRD Provider shall use the AMI infrastructure in conformance with RERRA requirements. Furthermore, the AMI system shall be designed to allow for full implementation of PRD including metering reading requirements, supervisory control requirements, and all other requirements developed under the PJM RAA, PJM Operating Agreements, OATT and PJM Manuals.
  - In jurisdictions where PRD Provider is not required to obtain RERRA approval for the PRD program, the PRD Provider shall use an automated metering infrastructure that effects the needed operational requirements for PRD. Furthermore, the metering infrastructure shall be designed to allow for full implementation of PRD including meter reading requirements, supervisory control requirements, and all other requirements developed under the PJM RAA, PJM Operating Agreements, OATT and PJM Manuals.
  - The meter utilized to measure consumption for the purpose of retail billing shall also be the meter utilized to measure consumption for the purpose of PRD participation.

3A.4.2.1 Deleted

3A.4.2.2 Verification of Contractual Arrangement with PRD Provider

PJM will require the PRD Provider to provide documentation, within (10) business days of PJM's request, that verifies that their contractual arrangement with the relevant end-use customers establishing a time-varying retail rate structure that conforms any RERRA requirements and adheres to PRD implementation standards specified in the PJM RAA, PJM Operating Agreement, PJM OATT or PJM Manuals. The PRD Provider shall provide to PJM, within ten (10) business days of PJM's request, copies of their applicable contracts with end-use

customers capable of reducing load in response to price (including any proposed contracts). If the PRD Provider fails to provide any of the required documentation, including but not limited to end-use customer contracts within the ten business days, PJM shall reject the PRD Provider's PRD Plan.

In RERRA jurisdictions where a PRD Provider is not required by the RERRA to seek approval from the RERRA for its contractual arrangement for the referenced load, the PRD Provider shall provide to PJM, within ten (10) business days of PJM's request, an opinion of either the PRD Provider's legal counsel or the RERRA's legal counsel attesting that the PRD Provider does not need to obtain approval from the RERRA for the PRD Provider's contractual arrangement for the referenced load, and that the PRD Provider's contractual arrangement for the referenced load adheres to any guidelines established by the RERRA. If the PRD Provider fails to provide the required documentation within the ten business days, PJM shall reject the PRD Provider's PRD Plan.

3A.4.2.3 PRD Election Requirements

A PRD Provider that is nominating PRD for an RPM Auction must also submit a PRD election (indicating the Sub-zonal/Zonal Nominal PRD Value to be provided at different reservation prices) in the Capacity Exchange system by January 15, prior to the Base Residual Auction or Third Incremental Auction for the relevant Delivery Year.

A PRD election must include:

- Zonal/Sub-zonal Nominal PRD Value (MW) and Reservation Price ($/MW-day) pair(s) that meet the following requirements.
  - Up to ten quantity(MW)-price($/MW-day) pair segments for a zone/sub-zone may be submitted
  - A minimum and maximum Nominal PRD Value quantity must be submitted for each segment
  - The smallest increment that may be submitted for a Nominal PRD Value MW quantity is 0.1 MW.
  - The sum of the maximum Nominal PRD Values in the segments must not exceed the sub-zonal/zonal Nominal PRD Value requested for approval by PJM in the PRD Provider's PRD Plan. If PJM approves a lower sub-zonal/zonal Nominal PRD Value than the requested value in their PRD Plan, the PRD Provider will be asked to resubmit their PRD election such that the maximum Nominal PRD Values in the segments does not exceed the final sub-zonal/zonal Nominal PRD Value approved by PJM.
  - A Reservation Price submitted in a segment must be equal to or greater than $0/MW-day. If a PRD Provider does not submit a reservation price for a segment, the reservation price will default to $0/MW-day. A PRD Provider is willing to commit the Nominal PRD level specified in a segment if the RPM Auction Resource Clearing

Price applicable to Annual Resources in the zone/sub-zone is equal to or greater than the Reservation Price specified in such segment.

- The PRD Provider is willing to accept the commitment of any amount of Nominal PRD Value equal to or greater than the minimum MW amount quantity specified in a segment and equal to or less than the maximum MW amount quantity specified in a segment.
- If a PRD Provider's PRD Plan is not approved by PJM, the PRD Provider's Election will be rejected by PJM and not considered in the RPM Auction clearing.

Upon posting of the RPM Auction Results, PJM will notify the PRD Provider via the Capacity Exchange system of their sub-zonal/zonal committed Nominal PRD Value. Upon notification by PJM, the PRD Provider has a binding commitment to provide sub-zonal/zonal PRD at the committed level during the relevant Delivery Year.

3A.5 Registration of Price Responsive Demand

A PRD Provider will be required to register price responsive load in DR Hub system prior to the start of the Delivery Year and maintain the registration of enough price responsive load in a zone/sub-zone throughout the Delivery Year to satisfy their zonal/sub-zonal PRD commitments.

Only load that meets all the eligibility requirements of PRD can be registered as PRD. The registration of price responsive load must be identified at the substation location within a transmission zone as electrically close as practical to the applicable load (i.e., PNODE).

If during the Delivery Year, the load no longer meets all the eligibility requirements of PRD, the PRD Provider must terminate the initial registration on the date the load no longer meets the eligibility requirements. The PRD Provider may also register new customers throughout the Delivery Year to cover loss of PRD load when customers drop out of the PRD Provider's program.

End-use customer loads identified in a PRD Plan or PRD registration for a Delivery Year as Price Responsive Demand may not, for such Deliver Year, (i) be registered as Economic Load Response or Emergency Load Response; (ii) be used as the basis of any Demand Resource Sell Offer or Energy Efficiency Sell Offer in any RPM Auction; (iii) be identified in a PRD Plan or PRD registration of any other PRD Provider.

An individual site registration must be submitted for each end-use customer site that is price responsive and has a peak load contribution equal to or greater than 10 KW. The site registration must identify the EDC, PLC, FSL, EDC-assigned loss factor, PNODE, and whether the load is being served under the RPM or the FRR Alternative. The FSL in the registration represents the load level that the site is committing to be at during a Performance Assessment Interval in the Delivery Year.

An aggregate registration may be submitted to aggregate end-use customer sites that have peak load contributions below 10 KW provided such aggregate registration must represent end-use customers located at the same PNODE.

The Nominal PRD Value calculated for a registration is equal to the PLC in the registration minus (the FSL in the registration times the EDC-assigned loss factor).

PJM will aggregate the Nominal PRD Values of effective, approved registrations in a zone/sub-zone to determine the PRD Provider's actual Daily Nominal PRD Value in zone/sub-zone for each day during the Delivery Year.

The deadline for the submittal of a PRD registration in the DR Hub system is one day before the tenth business day prior to the start date that a PRD registration is effective so that adequate time is provided for the EDC to confirm the registration data. During the Delivery Year, if the load identified in the approved PRD registration will no longer meet the PRD eligibility requirements, a request to terminate the PRD registration on the last day that such load meets the PRD eligibility requirements must be submitted in DR Hub within two business days prior to the date that the PRD registration is to terminate. A PRD registration must be in an approved status by the start date of the registration and be effective on the delivery day in order for such registration to be counted towards meeting the PRD Provider's committed sub-zonal/zonal Nominal PRD Value for the relevant delivery day.

For a PRD Provider, the MW amount of PRD that is currently registered by the PRD Provider at the time of PRD Plan submittal may be considered as Existing PRD and not be subject to a Price Responsive Demand Credit Requirement.

3A.6 Performance Requirements of Price Responsive Demand

Once a PRD Provider commits PRD for the Delivery Year, the PRD Provider will be subject to both daily commitment compliance during the Delivery Year Non-Performance Assessment during the Delivery Year in accordance with Section 8.4A. In the absence of a Performance Assessment Interval during the relevant Delivery Year that required the PRD registration to respond, such registration would be required to test during the Delivery Year

A PRD Provider cannot use replacement capacity to reduce a MW shortfall for PRD commitment compliance, failure to perform during a Performance Assessment Interval, or failure to perform during a test. However, a PRD provider may register additional price responsive demand throughout the Delivery Year to cure a daily commitment compliance shortfall or avoid additional Non-Performance Assessment shortfalls. In addition, a PRD Provider may transfer the obligation to provide PRD to another PRD provider through a bilateral transaction.

3A.6.1 PRD Commitment Compliance

A PRD Provider must register enough PRD prior to the start of the Delivery Year and maintain enough Price Responsive Demand registrations throughout the Delivery Year to satisfy their sub-zonal/zonal PRD commitment for RPM or FRR.

PRD commitment compliance will be evaluated on a daily basis throughout the Delivery Year. PJM will determine the actual Daily Nominal PRD Value of the PRD Provider in a Sub-Zone/ Zone for RPM or FRR based on the registration information provided in the DR Hub system. If a PRD Provider's actual Daily Nominal PRD Value in a Sub-Zone/Zone for RPM is less than their committed Nominal PRD Value in Sub-Zone/Zone for RPM, the PRD Provider will be subject to a Daily PRD Commitment Compliance Penalty in the Sub-zone/Zone for the MW shortfall. If a PRD Provider's actual Daily Nominal PRD Value in a Sub-Zone/Zone for FRR is less than their committed Nominal PRD Value in Sub-Zone/Zone for FRR, the PRD Provider will be subject to a Daily PRD Commitment Compliance Penalty in the Sub-zone/Zone for the MW shortfall.

3A.6.2 Deleted

3A.6.2A Compliance during a Performance Assessment Interval

A PRD Provider is subject to a Non-Performance Assessment in accordance with Section 8.4A. Compliance is measured for a PRD registration upon declaration of a Performance Assessment Interval in same sub-zone/zone of such PRD registration and when the PRD Curve associated with such registration in the PJM Real-time Energy Market has a price point where demand reduction is expected at Real Time LMP recorded during the Performance Assessment Interval. A PRD registration shall not be considered in the calculation of a Performance Shortfall or Bonus Performance when the PRD Curve associated with such registration in the Real-time Energy Market indicates a price point where no demand reduction is expected at the real-time LMP recorded during the Performance Assessment Interval.

A PRD registration with an approved exception to the automation requirement will not have compliance measured during Performance Assessment Intervals that fall within the 15 minute response allowance. A PRD Provider will only be subject to Non-Performance Assessment and associated Non-Performance Charges/Bonus Performance Credits for those PRD registrations that were measured for compliance.

PRD Providers are responsible for the submittal to PJM of all meter information required to complete this measurement and verification for each Performance Assessment Interval during the Delivery Year that the PRD was required to respond. PJM requires that actual metered data at the end-use customer site for all hours during the day of a Performance Assessment Interval be submitted to PJM via DR Hub system within 45 days after the end of the month in which a Performance Assessment Interval occurs, with accountability for failure to do so. PJM verifies compliance on a registration basis by reviewing the data submitted by the PRD Provider through the DR Hub system.

The actual load reduction provided by the registration for the Performance Assessment Interval is calculated as the registration's Peak Load Contribution minus (the metered load multiplied by the loss factor). A load reduction will only be recognized if metered load multiplied by the loss factor is less than the Peak Load Contribution. When five minute revenue meter data is not available to determine compliance of a PRD registration for a Performance Assessment Interval, the actual load reduction for a Performance Assessment Interval is calculated as the actual hourly load reduction for the hour ending that includes the Performance Assessment Interval(s) multiplied by (twelve divided by the number of five minute intervals the PRD registration was to be measured for compliance). The actual load reduction for a registration for a Performance Assessment Interval is capped at the Peak Load Contribution of the registration. If the PRD Provider failed to submit actual metered data for the registration for all hours during the day of a Performance Assessment Interval, the actual load reduction for such registration will be equal to zero MWs.

For each registration in an Emergency Action Area, the Actual Performance is equal to the actual load reduction for such registration for the Performance Assessment Interval. The Actual Performance for a PRD Provider in the Emergency Action Area for the Performance Assessment Interval is equal to the sum of the Actual Performance of the PRD registrations that were measured for compliance for such Emergency Action Area and Performance Assessment Interval. If a PRD Provider registered PRD to satisfy RPM PRD commitments and PRD to satisfy FRR PRD commitments, an Actual Performance quantity will be calculated for registrations tied to RPM and a separate Actual Performance quantity will be calculated for registrations tied to FRR.

The Expected Performance for a PRD Provider for the Emergency Action Area and Performance Assessment Interval is equal to the Nominal PRD Value committed by PRD Provider in the Emergency Action Area, adjusted to account for any PRD registrations in the Emergency Action Area that were not subject to compliance measurement. If a PRD Provider committed PRD to RPM and committed PRD to FRR, an Expected Performance quantity will be calculated for RPM commitments and a separate Expected Performance quantity will be calculated for FRR commitments.

The Performance Shortfall for a PRD Provider is calculated as Expected Performance minus the Actual Performance. If the Performance Shortfall related to RPM commitments is negative number, the PRD Provider is subject to a Non-Performance Charge, in accordance with Section 8.4A. If the Performance Shortfall related to RPM commitments is a negative number, the PRD Provider may be eligible for a Bonus Performance Credit, in accordance with Section 8.4A. Performance Shortfalls related to FRR commitments are subject to Non-Performance Charge or Bonus Performance Credit if the FRR Entity elected the financial non-performance assessment as opposed to the physical non-performance option described in Section 11.8.7

3A.6.3 PRD Test Compliance (Effective for 2022/2023 Delivery Year)

If a PRD registration is not measured for compliance for a Performance Assessment Interval in a Delivery Year, then such registered PRD must demonstrate that it was tested for a one hour

period between 10:00 AM EPT to 10:00 PM EPT during June through October or May of the relevant Delivery Year. If a PRD registration is measured for compliance for a Performance Assessment Interval in a Delivery Year, then no PRD Test Failure Charges will be assessed for such PRD registration.

All PRD registrations in a zone must be tested simultaneously except that, when less than 25 percent (by megawatts) of a PRD Provider's total PRD registered in a Zone fails a test, the PRD Provider may conduct a re-test limited to all registered PRD that failed the prior test, provided that such re-test must be at the same time of day and under approximately the same weather conditions as the prior test, and provided further that all affiliated registered PRD must test simultaneously, where affiliated means registered PRD that has any ability to shift load and that is owned or controlled by the same entity. If less than 25 percent of a PRD Provider's total PRD registered in a Zone fails the test and the PRD Provider chooses to conduct a retest, the PRD Provider may elect to maintain the performance compliance result for registered PRD achieved during the test if the PRD Provider: (1) notifies PJM 48 hours prior to the re-test under this election; and (2) the PRD Provider retests affiliated registered PRD under this election.

Multiple tests may be conducted; however only one test result may be submitted for each end use customer site in DR Hub for test compliance evaluation. Test data must be submitted in DR Hub on or after June 1 and no later than July 14th after the Delivery Year. Actual load reduction for a PRD registration in a test is calculated in a manner similar to calculating actual hourly load reduction during an emergency action.

The MW testing shortfall for a PRD registration is equal to the nominal load reduction value of the registration, capped at daily Nominal PRD Value committed by such registration on the day of the test, minus the actual hourly load reduction for such registration.

The PRD Provider's daily committed Zonal (or Sub-Zonal LDA) Nominal PRD Value is allocated to the PRD Provider's registrations in the zone (or sub-zonal LDA) pro-rata based on the Nominal PRD Value of the registrations to determine the PRD commitment level for such registrations.

Positive MW shortfalls represent underperformance for a PRD registration. Negative MW shortfalls represent over performance for a PRD registration. The test compliance results of the PRD Provider's PRD registrations in a zone that were expected to test are aggregated to determine a PRD Provider's net zonal testing shortfall. If a PRD Provider committed PRD to RPM and committed PRD to FRR, a net zonal testing shortfall will be calculated for their PRD registrations linked to RPM and a separate net zonal testing shortfall will be calculated for their PRD registrations linked to FRR.

3A.6.3A PRD Test Compliance (Effective with 2023/2024 Delivery Year)

For the 2023/2024 Delivery Year and subsequent Delivery Years, if the registered PRD is not required to reduce the load for a Performance Assessment Interval during the relevant Delivery Year, then such registered PRD shall test for a two hour period between 11:00 EPT to 18:00

EPT on a weekday that is a non-NERC holiday during the relevant Delivery Year and in accordance with the following provisions. The date and time of such test shall be selected by the Office of the Interconnection and notice of such test shall be provided to the PRD Provider in accordance with the procedure described in sections (2) and (3) listed below. If a PRD registration is measured for compliance for a Performance Assessment Interval in a Delivery Year, then no PRD Test Failure Charges will be assessed for such PRD registration.

1. For the 2023/2024 Delivery Year and subsequent Delivery Years, all PRD registered in a zone will be tested simultaneously for two hours. Performance will be calculated as the two hour average reduction. The Office of the Interconnection may, at its discretion, cancel a test and retest to ensure system reliability.
    a. If less than 25 percent (by megawatts) of a PRD Provider's total PRD registered in a Zone fails a test, the PRD Provider may conduct re-tests limited to all registered PRD that failed the prior test, provided that such re-test must be at the same time of day and under approximately the same weather conditions as the prior test, and provided further that all affiliated registered PRD must test simultaneously, where affiliated means registered PRD that has any ability to shift load and that is owned or controlled by the same entity. The PRD Provider may elect to maintain the performance compliance result for registered PRD achieved during the test if the PRD Provider: (1) notifies the Office of the Interconnection 48 hours prior to the re-test under this election; and (2) the PRD Provider retests affiliated registered PRD under this election as set forth in the PJM Manuals.
    b. If 25 percent or more (by megawatts) of a PRD Provider's total PRD registered in a Zone fails the test the PRD Provider may request PJM to schedule a one-time retest limited to all registrations that failed the prior test, provided that all affiliated registrations must test simultaneously where affiliated means registered PRD that has any ability to shift load and that is owned or controlled by the same entity. The request must be made before the 46th day after the test. The Office of the Interconnection will select the date and time of the retest during the same season period (except if test was conducted in March in which case retest can be conducted in May) and notice is provided consistent with the following procedure.
2. Notification of the initial Office of the Interconnection scheduled test will be provided as follows:
    a. On the first business day of a week, PJM will provide notice of all zones to be tested during the following two week test window. The test window opens the first business day of the week following the notice. By 10:00 EPT the day before the test, the Office of the Interconnection will post on its website the test date and zones. The Office of the Interconnection will also notify the PRD Providers the test date. On the test date, PRD Providers will receive the start time through web service communications with a 15 minute lead time and as defined in the PJM Manuals.

3. Notification of any scheduled retest by the Office of the Interconnection will be provided as follows:
    a. By 10:00 EPT the day before the retest, the Office of the Interconnection will post the retest date on its website. PJM will also notify the PRD Providers the retest date. On retest date PRD Providers will receive start time through web service communications with a 15 minute lead time and as defined in the PJM Manuals.

The MW testing shortfall for a PRD registration is equal to the nominal load reduction value of the registration, capped at daily Nominal PRD Value committed by such registration on the day of the test, minus the actual load reduction for such registration.

The PRD Provider's daily committed Zonal (or Sub-Zonal LDA) Nominal PRD Value is allocated to the PRD Provider's registrations in the zone (or sub-zonal LDA) pro-rata based on the Nominal PRD Value of the registrations to determine the PRD commitment level for such registrations.

Positive MW shortfalls represent underperformance for a PRD registration. Negative MW shortfalls represent over performance for a PRD registration. The test compliance results of the PRD Provider's PRD registrations in a zone that were expected to test are aggregated to determine a PRD Provider's net zonal testing shortfall. If a PRD Provider committed PRD to RPM and committed PRD to FRR, a net zonal testing shortfall will be calculated for their PRD registrations linked to RPM and a separate net zonal testing shortfall will be calculated for their PRD registrations linked to FRR.

3A.7 PRD Bilaterals

A PRD Provider may transfer the obligation to provide PRD bilaterally to another PRD Provider during the Delivery Year.

The following are the business rules that apply to PRD bilateral transactions:

- PRD bilateral transactions must be reported in the Capacity Exchange system.
- Both parties of the PRD transaction must confirm the transfer of a PRD commitment from the seller (transferor) to the buyer (transferee) via the Capacity Exchange system prior to the start date of the transaction.
- PRD bilateral transactions must be in the "Approved" status by the start date of the transaction or the status of such transaction will be changed to "PJM Withdrawn".
- The smallest increment of committed Nominal PRD Value that may be transferred is 0.1 MW.
- PRD transactions must specify:
    - start and end data for the transaction
    - the amount of Nominal PRD Value (in MW) to be transferred

  - the sub-zone/zone in which the Nominal PRD Value to be transferred was committed
  - whether the Nominal PRD Value to be transferred was committed to RPM or the FRR Alternative
  - the RPM Auction (BRA or Third IA) for which the Nominal PRD Value to be transferred was committed (if committed to RPM)
- The Capacity Exchange system will validate that the Seller has the committed Nominal PRD Value in the sub-zone/zone to transfer for the term of the transaction.
- To the extent that the Nominal PRD Value to be transferred has a Price Responsive Demand Credit Requirement, the Buyer must have sufficient credit in place prior to PJM approving the PRD transaction.
- As a result of an approved PRD transaction, the buyer that is assuming the seller's PRD commitment and obligations will be subject to PRD performance requirements to the extent of such transfer and for the term of the transaction.
- The seller shall be relieved of its PRD commitment and any Price Responsive Demand Credit Requirements for the Nominal PRD Value transferred for the term of the transaction.

Section 4: Supply Resources in the Reliability Pricing Model

Welcome to the *Supply Resources in RPM* section of the ***PJM Manual for the PJM Capacity Market***. In this section, you will find the following information:

- An overview description of supply in the Reliability Pricing Model (see "Overview of Supply in the Reliability Pricing Model")
- The business rules for generation resources (see "Generation Resources")
- The business rules for load management products (see "Load Management Products")
- The business rules for energy efficiency resources (see "Energy Efficiency Resources")
- The business rules for qualified transmission upgrades (see "Qualified Transmission Upgrades")
- The business rules for bilateral transactions (see "Bilateral Transactions")
- The business rules for resource portfolios in RPM (see "Resource Portfolios")
- The credit requirements in RPM (see "Credit Requirements")
- The business rules for Aggregate Resources (see "Aggregate Resources")
- The business rules for Seasonal Capacity Resources (see "Seasonal Capacity Resources")

4.1 Overview of Supply in the Reliability Pricing Model

In the Reliability Pricing Model, the supply of installed capacity is procured to meet demand as a function of the clearing of the RPM Auctions. In each auction, a supply curve is defined based on the offers submitted by providers with installed capacity resources. Supply, valued as unforced capacity, which is procured in the RPM multi-auction clearing process, ensures that sufficient resources are committed to meet the PJM Reliability Principles and Standards.

A party's supply resource portfolio in Capacity Exchange may consist of:

- Generation Capacity Resources;
- Load Management Resources;
- Energy Efficiency Resources;
- Aggregate Resources
- Qualifying Transmission Upgrades.

Key qualifications and requirements for generation resources are presented in Existing Generation, Planned Generation, and Bilateral Unit-Specific Transaction sections of this Manual. Key qualifications and requirements for load management products are presented in the Load Management section of this Manual. Key qualifications and requirements for Energy Efficiency Resources are presented in the Energy Efficiency Resources section of this Manual.

Key qualifications and requirements for Aggregate Resources are presented in the Aggregate Resources section of this Manual. Key qualifications and requirements for Qualified Transmission Upgrades are presented in the Qualified Transmission Upgrade section of this Manual.

Note:
Prior to any RPM auction, RPM suppliers must confirm the modeling of each of their capacity resources. RPM suppliers must verify the following characteristics of generation units, demand resources, energy efficiency resources, and aggregate resources:

Zone assignment

LDA assignment

Unit Location by State (generation resources only)

Unit Type (generation resources only)

Product Type (Annual)

Fuel type (generation resources only)

Seasonal eligibility

4.2 Generation Resources

A party's Generation Capacity Resource portfolio may consist of Existing Generation Capacity Resources, Planned Generation Capacity Resources, and bilateral contracts for unit-specific Capacity Resources. Qualifications and requirements for Generation Capacity Resources are presented in the sections below. A Generation Capacity Resources that is being committed to the initial FRR Capacity Plan must satisfy the same qualification requirements as a Generation Capacity Resource offering into a Base Residual Auction; however, the qualification requirements must be satisfied in advance of the FRR Capacity Plan submittal deadline.

4.2.1 Existing Generation Capacity Resources - Internal

Existing Generation Capacity Resource located within the PJM region is eligible to be offered into RPM Auctions or traded bilaterally if it meets the following requirements:

- The unit is pre-certified by PJM as meeting the generation deliverability test. PJM's certification process for internal generating resources is described in the ***Open Access Transmission Tariff and the Operating Agreement.***
- The resource owner or operator submits the required operating and maintenance information into PJM's eDART and eGADs systems.

- The resource owner or operator performs winter and summer testing as described in ***PJM's Rules and Procedures for Determination of Generating Capability (M-21) and M-21B*** to verify the net capability of each unit.
- The unit resides in the Capacity Exchange resource portfolio of a signatory of the PJM Operating Agreement. This is accomplished by having an "Approved" Capacity Modification in the Capacity Exchange system.
- The relevant portion of the unit was not specified in any FRR Capacity Plan for the Delivery Year.
- Unoffered MWs for a unit as a result of not satisfying the RPM must offer requirement in the Base Residual Auction or an Incremental Auction for the Delivery Year, are ineligible to be offered in any subsequent Incremental Auctions for that Delivery Year and are ineligible to take on any RPM or FRR commitment for such Delivery Year.

4.2.2 Existing Generation Capacity Resources - External

Existing Generation Capacity Resources located outside the PJM region is eligible to be offered into an RPM Auction if it meets the following requirements:

- For an external Generation Capacity Resource offering as Capacity Performance, the external resource satisfies the requirements to offer as Capacity Performance or qualifies for an exception to such requirements as a Prior CIL Exception External Resource. A Prior CIL Exception External Resource is defined as an external Generation Capacity Resource for which (1) a Capacity Market Seller had, prior to May 9, 2017, cleared a Sell Offer in an RPM Auction under the exception provided to the definition of Capacity Import Limit as set forth in Article 1 of the Reliability Assurance Agreement or (2) an FRR Entity committed, prior to May 9, 2017, in an FRR Capacity Plan under the exception provided in the definition of Capacity Import Limit. In the event only a portion (in MW) of an external Generation Capacity Resource has a Pseudo-Tie into the PJM Region, that portion of the external Generation Capacity Resource, which can include up to the maximum megawatt amount cleared in any prior RPM auction or committed in an FRR Capacity Plan (and no other portion thereof), is eligible for treatment as a Prior CIL Exception External Resource if such portion satisfies the requirements of the first sentence of this definition.
- For a Capacity Market Seller to offer an external Generation Capacity Resource as Capacity Performance, the Capacity Market Seller must demonstrate to PJM, by no later than five (5) business days prior to the commencement of the offer period for the relevant RPM Auction, that such resource meets the following requirements:
    - The Capacity Market Seller has obtained a determination that the Pseudo-Tie required for its External Generation Capacity Resource is feasible, including (without limitation) that such Pseudo-Tie meets the requirements in ***PJM Balancing Operations Manual (M-12)*** and the Capacity Market Seller has committed in writing, via the submittal of an Officer Certification Form, that it will take all steps necessary to implement such Pseudo-Tie prior to the start of the relevant Delivery Year. A template for the Officer Certification Form is posted on the PJM website.

- The Capacity Market Seller has demonstrated that it has, for transmission outside PJM, obtained long-term firm point-to-point transmission service (evaluated for deliverability from the unit-specific physical location of the resource to PJM load pursuant to a study that is reviewed and approved by PJM in accordance with PJM deliverability criteria to ensure uniformity for internal and external resource deliverability requirements), with rollover rights for the term of the transmission service that is confirmed by the Balancing Authority where such external resource is geographically located.
- The Capacity Market Seller has demonstrated that it has, for transmission service within PJM, obtained Network External Designated Transmission Service.
- The Capacity Market Seller has demonstrated by written commitment via the Officer Certification Form that such external resource is subject to the same obligations to offer into RPM Auctions imposed on Generation Capacity Resources located in the PJM Region by section 6.6 of Attachment DD of OATT. A Capacity Market Seller that satisfies the requirements to offer as Capacity Performance with respect to an external Generation Capacity Resource Sell Offer submitted in an RPM Auction for a Delivery Year is required to demonstrate satisfaction of such requirements for any Sell Offer with respect to such external resource submitted in an RPM Auction for any subsequent Delivery Year, including without limitation, demonstration that the required external transmission service continues to satisfy PJM's deliverability standards.

- To qualify for an exception to satisfy the above requirements to offer as Capacity Performance for a Delivery Year RPM Auction , the Prior CIL Exception External Resource must demonstrate that the external resource is (1) owned by a Load Serving Entity and used to self-supply (under arrangements initiated before June 1, 2016, with a duration of at least ten years) such LSE's PJM Region load, for any Delivery Year during the life of such resource or (2) the subject of a contract for energy or capacity or equivalent written agreement entered into on or before June 1, 2016 for a term of ten years or longer with a purchaser that is an internal PJM load customer, for any Delivery Year that covers the term of the agreement.
- The Prior CIL Exception External Resource must continue to comply with all the conditions in place on the grant of its exception to the Capacity Import Limit, subject to the following additional conditions:
  - The Prior CIL Exception External Resource must be Operationally Deliverable, as defined in the Open Access Transmission Tariff. If PJM determines that a Prior CIL Exception Resource is not Operationally Deliverable for a Delivery Year and notifies the Capacity Market Seller of such a determination by no later October 1 immediately preceding such Delivery Year, the Capacity Market Seller may elect to:
    - Take the necessary actions to make the Prior CIL Exception External Resource Operationally Deliverable, in PJM's sole judgement, prior to the beginning of such Delivery Year. If transmission upgrades are required to make the external resource Operationally Deliverable, PJM will facilitate the performance of

transmission studies and otherwise cooperate with the external Transmission Provider of the system on which such upgrades are required to identify the upgrades required to meet PJM's deliverability standards;

- Be relieved of the external resource's capacity obligation for such Delivery Year by providing written notice of such election to the RPM Hotline at rpm_hotline@pjm.com no later than seven (7) days prior to the posting of planning parameters for the Third Incremental Auction for such Delivery Year. As a result of such election, the Capacity Market Seller will not receive any RPM Auction Credits for the external resource's cleared MWs for such Delivery Year, will be relieved of all commitments and any resource performance obligations for such Delivery Year, and will have no further must-offer obligation in RPM Auctions. PJM will consider all such elections from Capacity Market Sellers in the determination of the PJM Buy Bid/Sell Offer for the Third Incremental Auction.
- Procure and specify replacement capacity in a sufficient quantity to replace the entire commitment on the Prior CIL Exception External Resource for the Delivery Year.

◦ A Capacity Market Seller's continued ability to offer as a Prior CIL Exception External Resource in RPM Auctions is conditioned on external Transmission Providers continuing to honor the firm status of the Capacity Market Seller's transmission service for all Delivery Years that such Capacity Market Seller offered as a Prior CIL Exception Resource.

◦ A Capacity Market Seller offering and clearing a Prior CIL Exception Resource shall be relieved of its must offer obligation in future Delivery Year RPM Auctions after the last Delivery Year for which it qualifies for an exception to requirements to offer as a Capacity Performance Resource.

- The unit resides in the Capacity Exchange resource portfolio of a signatory of the PJM Operating Agreement. This is accomplished by having a "Provisionally Approved" or "Approved" unit-specific transaction with "External Party" (i.e., "EXT") as the "Seller" of the transaction in the Capacity Exchange system.
- At least twelve months of NERC/GADs unit performance data in PJM format is required to establish a unit's Accredited UCAP Factor.
- The resource owner or operator submits the required operating and maintenance information into PJM's eDART and eGADs systems.
- The resource owner or operator performs winter and summer testing as described in ***PJM's Rules and Procedures for Determination of Generating Capability (M-21 and M-21B)*** to verify the net capability of each unit.
- The external capacity without firm transmission service confirmed on the complete transmission path must establish an RPM Credit Limit prior to an RPM Auction.
- Credit requests should be made to PJM's Treasury Department at least two weeks prior to an RPM Auction.

- The resource owner provides a letter of non-recallability assuring PJM that the energy and capacity from the unit is not recallable to any other control area.
- A communication path (acceptable to PJM Dispatching/Operations personnel) must be established between the PJM Dispatchers and the operator of the unit.
- The relevant portion of the unit was not specified in any FRR Capacity Plan for the Delivery Year.

An Existing Generation Capacity Resource located outside the PJM region is eligible to be traded bilaterally if the unit resides in the Capacity Exchange resource portfolio of a signatory of the PJM Operating Agreement through the accomplishment of an "Approved" unit-specific transaction with "External party" (i.e., "EXT") as the "Seller" of the transaction in the Capacity Exchange system. For an external resource offering or committing as Capacity Performance, an "Approved" unit-specific transaction status will not be granted until the pseudo-tie for such resource is actually implemented and the external resource has satisfied PJM's deliverability standards, which for CIL Exception External Resource may include completing the necessary actions to make such CIL Exception External Resource Operationally Deliverable for the relevant Delivery Year. Demonstrating deliverability may require transmission upgrades on an external Transmission Provider's system or PJM's system to be completed prior to June 1st of the delivery year. The study process for participant-funded upgrades is defined in Part VI of the PJM Open Access Transmission Tariff. The following requirements for existing external generation are still applicable for external resources traded bilaterally:

- At least twelve months of NERC/GADs unit performance data in PJM format is required to establish a unit's Accredited UCAP Factor.
- The resource owner or operator submits the required operating and maintenance information into PJM's eDART and eGADs systems.
- The resource owner or operator performs winter and summer testing as described in ***PJM's Rules and Procedures for Determination of Generating Capability (M-21 and M-21B)*** to verify the net capability of each unit.
- The resource owner provides a letter of non-recallability assuring PJM that the energy and capacity from the unit is not recallable to any other control area.
- A communication path (acceptable to PJM Dispatching/Operations personnel) must be established between the PJM Dispatchers and the operator of the unit.
- The relevant portion of the unit was not specified in any FRR Capacity Plan for the Delivery Year.

If an existing Generation Capacity Resource located outside the PJM region cleared as Capacity Performance Resource in the Base Residual Auction, First Incremental, Second Incremental Auction, Third Incremental Auction, or Conditional Incremental Auction and does not have the pseudo-tie implemented and generation deliverability demonstrated by the start date of associated unit-specific transaction, the status of the associated unit-specific transaction

in the Capacity Exchange system will be changed from "Provisionally Approved" to "PJM Withdrawn".

4.2.3 Planned Generation Capacity Resources - Internal

A Planned Generation Capacity Resource that is participating in PJM's Regional Transmission Expansion Planning Process (RTEPP) is eligible to be offered into PJM's RPM Auctions if it meets the following requirements:

- The planned unit's start date of Interconnection Service is on or before the start of Delivery Year.
- At a minimum, planned generation resources greater than 20 MW must be in the Phase III System Impact Study and planned generation resources less than or equal to 20 MW must be in the Phase II System Impact Study, for the unit to participate in the Base Residual Auction.
- A Generation Interconnection Agreement (GIA) or Wholesale Market Participant Agreement (WMPA) has been executed for the unit to participate in an Incremental Auction.
- A Capacity Modification for the planned unit has been submitted and "Provisionally Approved" in Capacity Exchange.
- Planned Generation Capacity Resources must establish an RPM Credit Limit prior to an RPM Auction.
- Credit requests should be made to PJM's Treasury Department at least two weeks prior to an RPM Auction.
- If the Planned Generation Capacity Resource was committed through the Base Residual Auction and the GIA is not received prior to opening of the bid window for the First Incremental Auction, the status of the Capacity Modification will be changed from "Provisionally Approved" to "Denied" so that the planned generation will no longer be included in a resource provider's Capacity Exchange Generation Resource portfolio.
- If a GIA is eventually executed with a start date of Interconnection Service that is on or before the start of the Delivery Year, a new Capacity Modification will need to be submitted and "Provisionally Approved" in order to be re-included in a resource provider's Capacity Exchange Generation Resource portfolio.
- If the Planned Generation Capacity Resource is delayed and has not commenced Interconnection Service by the start date of the Capacity Modification, the status of the Capacity Modification will be changed from "Provisionally Approved" to "Denied". A new Capacity Modification will need to be submitted and approved with a start date that corresponds to the start date of Interconnection Service.
- Planned Generation Capacity Resources are required to submit an acceptance test to PJM Planning prior to the start date of the submitted CAPMOD in accordance with Manual 21 Section 1.3

- If PJM Planning determines a portion of a Planned Generation Capacity Resource has commenced Interconnection Service, or considered Partially In-Service, the status of the Capacity Modification may be changed from "Provisionally Approved" to "Approved" up to the amount of MWs deemed in-service by PJM Planning. A Capacity Modification for the remaining Planned MWs should be submitted and remain "Provisionally Approved" until PJM Planning confirms the MWs are in-service.
- Effective with the 2025/2026 Delivery Year, an internal Planned Generation Capacity Resource must satisfy the requirements of the binding notice of intent in section 4.2.3.1 in order for the internal Planned Generation Capacity Resource to be included in a Sell Offer for an RPM Auction.

4.2.3.1 Binding Notice of Intent to Offer (Effective with the 2025/2026 Delivery Year)

Any Planned Generation Capacity Resource, including planned Intermittent Resources, Capacity Storage Resources, and Hybrid Resources, will be required to provide a binding notice of intent to offer, in the format requested by PJM, in order to participate in the RPM Auction. A Capacity Market Seller must provide a binding notice of intent no later than (a) the immediately preceding December 1 for a Base Residual Auction (except that for the 2025/2026 auction the deadline was 12/12/23, and 2026/2027 and 2028/2029 Delivery Years, such notice shall be submitted by 180 days prior to the commencement of the offer period), or (b) ninety (90) days prior to the commencement of the offer period for an Incremental Auction. A notice of intent to offer should be made by the Capacity Market Seller that intends to offer the Planned Generation Capacity Resource/uprate into the auction. The resource associated with a binding notice of intent is required to be offered into the auction even if a different Capacity Market Seller will offer the resource into the RPM Auction. Any bilateral unit-specific transaction involving the Planned Generation Capacity Resource prior to the auction will transfer the binding notice of intent to the new Capacity Market Seller. If a resource associated with a binding notice of intent is not offered in the auction, then the resource will not be permitted to offer into any subsequent auctions for the relevant Delivery Year or take on a RPM commitment through Locational UCAP or Replacement Capacity transaction during the relevant Delivery Year, or take on a FRR Commitment during the relevant Delivery Year.

4.2.4 Planned Generation Capacity Resources – External

A Planned External Generation Capacity Resource is eligible to be offered into PJM's RPM Auctions. Such resources will be treated in a manner comparable to planned internal generation resources and existing external generation resources. Prior to participation in any RPM Auction, the Resource Provider must demonstrate that it has executed an interconnection agreement (functionally equivalent to being in the Phase II or Phase III System Impact Study as outlined below fora Base Residual Auction and a Generation Interconnection Agreement for an Incremental Auction) with the transmission owner to whose transmission facilities or distribution facilities the resource is being connected, and if applicable with the transmission provider. A planned external generation resource must provide evidence to PJM it has been studied as a Network Resource, or such other similar interconnection product in the external Control Area. A

Planned External Generation Capacity Resource is eligible to be offered into RPM Auction if it meets the following requirements:

- A Planned External Generation Capacity Resource offering as Capacity Performance Resource must satisfy the same requirements for existing external generation capacity resources offering as a Capacity Performance Resource in Section 4.2.2 of this manual.
- The planned unit's start date of Interconnection Service is on or before the start of Delivery Year.
- At a minimum, planned generation resources greater than 20 MW must be in the Phase III System Impact Study and planned generation resources less than or equal to 20 MW must be in the Phase II System Impact Study, for the unit to participate in the Base Residual Auction.A functionally equivalent Generation Interconnection Agreement has been executed for the unit to participate in an Incremental Auction.
- The unit resides in the Capacity Exchange resource portfolio of a signatory of the PJM Operating Agreement. A Capacity Modification for the planned unit has been submitted by PJM and "Provisionally Approved" in Capacity Exchange in an External Party (i.e., EXT) account. A unit-specific transaction with External Party as the "Seller" has been submitted by the provider and "Provisionally Approved" in the Capacity Exchange system to represent the import of capacity into PJM.
- External Planned Generation Capacity Resources must establish an RPM Credit Limit prior to an RPM Auction.
- Credit requests should be made to PJM's Treasury Department at least two weeks prior to an RPM Auction.
- If the Planned Generation Capacity Resource was committed through the Base Residual Auction and the GIA is not received prior to opening of the bid window for the First Incremental Auction, the status of the Capacity Modification and any unit-specific transaction(s) representing the capacity import will be changed from "Provisionally Approved" to "Denied" so that the planned generation will no longer be included in a resource provider's Capacity Exchange Generation Resource portfolio.
- If a GIA is eventually executed with a start date of Interconnection Service that is on or before the start of the Delivery Year, a new Capacity Modification and any unit-specific transaction(s) representing the import will need to be submitted and "Provisionally Approved" in order to be re-included in a resource provider's Capacity Exchange Generation Resource portfolio.
- If the Planned Generation Capacity Resource is delayed and has not commenced Interconnection Service by the start date of the Capacity Modification, the status of the Capacity Modification and any unit-specific transaction representing the import will be changed from "Provisionally Approved" to "Denied". A new Capacity Modification and unit-specific transaction representing the import will need to be submitted and approved with a start date that corresponds to the start date of Interconnection Service.
- Once operational, the resource owner or operator submits the required operating and maintenance information into PJM's eDART and eGADs systems.

- Once operational, the resource owner or operator performs winter and summer testing as described in ***PJM's Rules and Procedures for Determination of Generating Capability (M-21 and M-21B)*** to verify the net capability of each unit.
- The resource owner provides a letter of non-recallability assuring PJM that the energy and capacity from the unit is not recallable to any other control area.
- The relevant portion of the unit was not specified in any FRR Capacity Plan for the Delivery Year.
- Effective with the 2025/2026 Delivery Year, an external Planned Generation Capacity Resource must satisfy the requirements of the binding notice of intent in section 4.2.3.1 in order for the external Planned Generation Capacity Resource to be included in a Sell Offer for an RPM Auction.

4.2.5 Equivalent Demand Forced Outage Rate (EFORd) (Through 2024/2025 Delivery Year)

Equivalent Demand Forced Outage Rate (EFORd) is a measure of the probability that a generating unit will not be available due to forced outages or forced deratings when there is a demand on the unit to generate. See ***Generator Resource Performance Indices Manual (M-22)*** for the equations and derivations used in calculating a unit's EFORd.

The EFORd of a unit is based on forced outage data from an October through September period. If a unit does not have a full one-year history of forced outage data, the EFORd will be calculated using class average EFORd and the available history as described in the ***Reliability Assurance Agreement, Schedule 5, Section B***.

The EFORd based on forced outage data from an October through September period prior to the Delivery Year is based on all forced outage data and does not exclude forced outage data for Outside Management Control events.

Since no forced outage data is collected for Variable Resources, an EFORd is not calculated for Variable Resources. The EFORd of Variable Resources is set to zero in the Capacity Exchange system.

New units are initially assigned a class average EFORd. The class average EFORds that are used by PJM to calculate a unit's EFORd are posted to the PJM website by November 30 prior to the Delivery Year.

The Effective EFORd is the EFORd that is effective for the delivery day in the Capacity Exchange system. Prior to the Delivery Year, the Effective EFORd is the most recently calculated EFORd that has been bridged to the Capacity Exchange system. During the Delivery Year, the Effective EFORd is based on forced outage data from the October through September period prior to the Delivery Year.

The EFORd that is effective for the Delivery Year is considered locked in the Capacity Exchange system by November 30 prior to the execution of the Third Incremental Auction.

Note: Through and including the 2024/2025 Delivery Year, the UCAP value of a Generation Capacity Resource (except for a Generation Capacity Resource that is a Variable Resource, a Limited Duration Resource or a Combination Resource) is based on the resource's EFORd. Effective with the 2025/2026 Delivery Year, the UCAP value of all Generation Capacity Resources is based on the Accredited UCAP Factor of each resource as determined by ELCC analysis (see Section 4.2.7 Accredited UCAP for ELCC Resources).

4.2.6 Capacity Modifications (CAP Mods)

Capacity Modifications (CAP MODs) are a type of Capacity Exchange transaction used by generation owners to request the addition of a new unit or the removal of an existing unit from their resource portfolio in Capacity Exchange, or to request a MW increase or decrease in the summer or winter installed capacity rating of an existing unit.

The purpose of a CAP MOD is to establish the installed capacity value of a generation resource in the Capacity Exchange system. CAP MOD transactions represent permanent changes to the installed capacity value of a generation unit.

CAP MODs are also used by a generation owner to establish the capacity value of an ELCC Resource to be offered into the PJM Capacity Market and by PJM to establish the Delivery Year capacity value of an ELCC Resource.

A CAP MOD may also be submitted by PJM to establish the capacity value of a Winter-Period Capacity Performance Resource for November through April of the Delivery Year.

The following are business rules that apply to Capacity Modifications (CAP Mods):

- CAP MODs with a start date that occurs on or before the start of the Delivery Year must be submitted and "Provisionally Approved" or "Approved" by PJM in the Capacity Exchange system prior to the opening of the Base Residual Auction's or Incremental Auction's bidding window in order for the CAP MODs to be considered in a party's Generation Resource Position and the calculation of Available ICAP to offer for a Base Residual Auction, Incremental Auction or bilateral unit-specific transaction.
- All other CAP MODs must be submitted a minimum of 2 business days prior to the start date of the CAP MOD. The CAP MOD must be "Approved" by PJM in the Capacity Exchange system prior to the start date of the CAP MOD in order to be considered in a party's final Daily Generation Resource Position.
- If the status of a "Provisionally Approved" CAP MOD changes to "Denied" or "PJM Withdrawn", there will be no change to any party's RPM Resource Commitments[11].
- CAP MODs cannot be created during an RPM Auction's bidding window and clearing week.

- CAP MODs that are not in the "Approved" status by the start date of the CAP MOD will have their status changed to "PJM Withdrawn".
- CAP MODs that would cause the summer rating of a generation resource or the capacity value of an ELCC Resource to exceed such unit's Capacity Interconnection Rights plus transitional resource MWs will be "Denied" by PJM.

4.2.7 Accredited UCAP for ELCC Resources

Effective Load Carrying Capability (ELCC) establishes the Accredited UCAP value for ELCC Resources. Through the 2024/2025 Delivery Year, an ELCC Resource is a Variable Resource, a Limited Duration Resource, or a Combination Resource. Beginning with the 2025/2026 Delivery Year, an ELCC Resource is a Generation Capacity Resource or Demand Resources. Through the 2024/2025 Delivery Year, for the sole purpose of Manual 18 and the Capacity Exchange tool, the "ICAP" and "UCAP" for an ELCC Resource are set equal to the lesser of its Accredited UCAP or its Capacity Interconnection Rights plus transitional resource MW, and the EFORd of an ELCC Resource is shown as zero because the actual EFORd of an ELCC Resource, if applicable, has already been used in the determination of its Accredited UCAP.

Through the 2024/2025 Delivery Year, the Accredited UCAP Factor shall mean one minus the EFORd. For the 2025/2026 Delivery Year and subsequent Delivery Years, Accredited UCAP Factor is the ratio of the Capacity Resource's Accredited UCAP to the Capacity Resource's installed capacity.

The ELCC method is described in Manual 20 and Manual 20A (**PJM Resource Adequacy Analysis**), and the calculation of Accredited UCAP for an ELCC Resource is described in Manual 21A and Manual 21B (**Determination of Accredited UCAP Using Effective Load Carrying Capability Analysis**).

4.2.8 Interim Provisions for RMR Generation Resources

For Delivery Years up to and including the 2027/2028 Delivery Year (unless an extension of these provisions are proposed by PJM and approved by FERC), Reliability Must Run (RMR) Generation Capacity Resources that meet the criteria specified in Tariff, Attachment DD, section 5.3(b) will be included in the Base Residual Auction and to the extent there is an increase in Accredited UCAP, the additional MWs shall be included in the Third Incremental Auction with a Sell Offer of $0/MW-day and settled in accordance with the provisions specified in Tariff, Attachment DD, sections 5.3, 5.4 and 5.14. To the extent there is a reduction in Accredited UCAP for such resources between the Base Residual Auction and Third Incremental Auction, PJM will adjust the quantity that it seeks to procure or release in the Third Incremental Auction in accordance with Tariff, Attachment DD, section 5.3 (b) (ii) and 5.4(c). Furthermore, such

11 RPM Resource Commitments are placed on a resource when the resource clears or receives make-whole MWs through an RPM Auction, when the resource is specified as a replacement resource, or when the resource is used as the source of a Locational UCAP transaction.

resources shall not be subject to the rights and obligations of a committed Capacity Resource, and shall not be eligible for Non-Performance Charges or bonus payments. The performance and cleared Unforced Capacity of such Generation Capacity Resources shall also be excluded from the Balancing Ratio, as specified in Tariff, Attachment DD, section 10A.

4.3 Load Management Products

Load management is the ability to reduce metered load, either manually or automatically by the customer, after a request from the resource provider which holds the load management rights or its agent.

A load management program (e.g., Firm Service Level (FSL) or Guaranteed Load Drop (GLD) program) is eligible to (1) be offered by a resource provider as a Demand Resource (DR) into the Base Residual Auction or an Incremental Auction and is paid the applicable LDA product-specific Resource Clearing Price if such resource clears in the auction; or (2) be committed by an FRR Entity to an FRR Capacity Plan.

4.3.1 Requirements of Load Management Products in RPM

In order to offer a Demand Resource in an RPM Auction or commit a Demand Resource in an FRR Capacity Plan, a demand resource provider must submit no later than 30 days prior to the RPM Auction or prior to the deadline for submitting the FRR Capacity Plan a Demand Resource Sell Offer Plan (DR Sell Offer Plan) in accordance with Attachment C of this Manual. Actual deadline date for a DR Sell Offer Plan for an RPM Auction or FRR Capacity Plan is provided in the RPM Auction Schedule posted on the PJM website. A demand resource provider with a PJM approved DR Sell Offer Plan for the RPM Auction will be permitted to offer their Demand Resource(s) into such RPM Auction or commit such Demand Resource in an FRR Capacity Plan, provided the additional demand resource requirements in section 4.3.3 are met.

Demand resources that clear in an RPM Auction will have an RPM Resource Commitment for the relevant Delivery Year. Demand resources that are committed to an FRR Capacity Plan will have an FRR Capacity Plan Commitments for the relevant Delivery Year. A resource provider who has RPM Resource Commitments or FRR Capacity Plan Commitments for their demand resource must meet the following requirements:

- Must be registered in the Pre-Emergency or Emergency Load Response Program (see more detail below in the Pre-Emergency and Emergency Load Response Registration section) prior to the start of the relevant Delivery Year.
- Have the capability to retrieve electronic messages from PJM which notify curtailment service providers of a load management event in accordance with **PJM Manual 1: Control Center and Data Exchange Requirements.**
- Provide (or contract with another party to provide) customer-specific compliance and verification information within 45 days after the end of the month in which a Performance Assessment Interval occurred, in accordance with the Measuring Compliance during

Performance Assessment Interval section, Section 8.6 of this manual. Provide (or contract with another party to provide) customer-specific compliance and verification information in accordance with the timelines established in the Load Management Test Compliance section, Section 8.7 of this manual. Statistical sampling may be used instead of customer-specific compliance and verification information for residential customers without interval metering when approved by PJM in accordance with **PJM Manual 19: Load Forecasting & Analysis, Attachment D**.

- Provide load drop estimates for all Load Management events (whether initiated by PJM or the resource provider) and provider initiated test event, in accordance with **PJM Manual 19: Load Forecasting & Analysis.**
- Provide accurate estimates of the amount of energy that will be reduced in direct response to PJM dispatch of demand response during the Delivery Year (see more detail in the Load Reduction Reporting section).

These requirements are described in terms of the customer response and qualifications. The specifics of the customer contract and tariffs are the responsibility of the resource provider and the regulatory process. PJM does not have direct involvement with customers.

The entity requesting load management must verify that each customer's load management meets the following criteria:

- Availability for PJM-initiated interruptions in accordance with the availability requirements of the demand resource product type.
  - Capacity Performance DR – Capacity Performance DR is available for an unlimited number of interruptions during the Delivery Year, and will be capable of maintaining each such interruption between the hours of 10:00AM to 10:00PM Eastern Prevailing Time for the months of June through October and the following May, and 6:00AM through 9:00PM Eastern Prevailing Time for the months of November through April unless there is an Office of the Interconnection approved maintenance outage during October through April.
  - Summer-Period DR – Summer-Period DR is available for an unlimited number of interruptions during an extended summer period of June through October and the following May, and will be capable of maintaining such interruption between the hours of 10:00AM to 10:00PM Eastern Prevailing Time.
- Load management must be able to be implemented within two hours of notification to the resource provider of a PJM-initiated load management event. Load management is required to fully respond within 30 minutes of notification unless an exception request for 60 or 120 minutes notification time is approved by PJM. If qualified for one of the following exceptions, then CSP shall elect either 60 minute or 120 minute lead time based on the resources physical capability to provide the load reduction:
  - The manufacturing processes for the Demand Resource Registration require gradual reduction to avoid damaging major industrial equipment used in the manufacturing

process, or damage to the product generated or feedstock used in the manufacturing process; or

- Transfer of load to back-up generation requires time-intensive manual process taking more than 30 minutes; or
- On-site safety concerns prevent location from implementing reduction plan in less than 30 minutes; or
- The Demand Resource Registration is comprised of mass market residential customers or similarly situated mass market small commercial customers which collectively cannot be notified of a Load Management event within a 30-minute timeframe due to unavoidable communications latency, in which case the requested notification time shall be no longer than 120 minutes.
- The intent of these exemptions is to accommodate Demand Resource Registrations with legitimate, physical reasons as to why the load reduction cannot be achieved in the default, 30 minute notification time period and require up to 120 minutes to fully provide the load reduction. CSP must provide additional data and information within three business days of PJM request to substantiate the request for a longer lead time (60 or 120 minutes). PJM will make its determination within ten business days of receiving such additional information regarding the appropriate lead time for the registration.

- Initiation of load interruptions upon request of PJM must be within the authority of the resource provider dispatcher without any additional approvals being required.

4.3.2 Types of Load Management Programs

PJM recognizes three types of Load Management programs:

- Firm Service Level (FSL) – Load management achieved by a customer reducing its load to a pre-determined level (the Firm Service Level), upon notification from the resource provider's market operations center or its agent.
- Guaranteed Load Drop (GLD) – Load management achieved by a customer reducing its load by a pre-determined amount (the Guaranteed Load Drop), upon notification from the resource provider's market operations center or its agent. Typically, the load reduction is achieved through running customer-owned backup generators, or by shutting down process equipment.

For each type of recognized Load Management Program, there can be three notification periods:

- 30 Minute Lead Time – Load management which must be fully implemented in 30 minutes or less from the time the PJM dispatcher notifies the market operations center of a curtailment event.
- 60 Minute Lead Time – Load management which requires more than 30 minutes but no more than one hour, from the time the PJM dispatcher notifies the market operations center of a curtailment event, to be fully implemented.

- 120 Minute Lead Time - Load management which requires more than one hour but no more than two hours, from the time the PJM dispatcher notifies the market operations center of a curtailment event, to by fully implemented.

4.3.3 Demand Resources

Both Existing and Planned Demand Resources may participate in RPM Auctions or commit to FRR Capacity Plan if a demand resource provider has a PJM approved Demand Resource Sell Offer Plan.

Existing Demand Resources are those MWs on a demand resource identified in a pre-registration process in the Capacity Exchange system prior to the RPM Auction.[12]The Nominated DR Values (in MWs) associated with end-use customer sites that the Curtailment Service Provider (CSP) has under contract for the current Delivery Year (i.e., end-use customer sites registered in PJM DR Hub system for the current Delivery Year)[13] and that the CSP intends to have under contract for the auction Delivery Year are considered Existing MWs. The summer Nominated DR Value of a Demand Resource Registration is used in the calculation of Existing MWs. A CSP may request an adjustment to the summer Nominated DR Value (in MWs) associated with an end-use customer site and used in the determination of a CSP's Existing MWs if the following three criteria are satisfied:

- The original Nominated DR Value for the end-use customer was determined based on one registration in DR Hub.
- The peak load contribution (PLC) reported in the DR Hub registration for the end-use customer is at least 2 MW lower than it should have been due to an anomaly. An anomaly is a condition at the end-use customer site that resulted in significantly low usage that is not expected to occur in the future, such as a lighting strike or a major mechanical failure to an end use device.
- The CSP provides supporting information including historical load data to support an adjustment to the Nominated DR Value for the end-use customer.

A CSP request for an adjustment to the summer Nominated DR Value of an end-use customer and supporting information must be submitted via email to rpm_hotline@pjm.com at least five business days prior to the opening of the pre-registration window in the Capacity Exchange system for an RPM Auction. PJM will notify the CSP of the approval or rejection of their request

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[12] For an FRR Entity, a pre-registration process is performed manually through spreadsheets provided by PJM.

[13] For a Base Residual Auction and a Third Incremental Auction, end-use customer sites registered in the PJM DR Hub system for the subsequent Delivery Year may also be considered as existing DR provided the registrations are in "Confirmed" status by specified deadlines established by PJM and communicated to CSPs in advance of the DR Sell Offer Plan submittal deadline.

prior to the opening of the pre-registration window in the Capacity Exchange system for an RPM Auction.

Planned Demand Resources are defined as resources that do not currently have the capability to provide reduction in demand or to otherwise control load in PJM, but that is scheduled to be capable of providing such reduction or control on or before the start of the Delivery Year. Planned Demand Resources are those MWs on a demand resource that the CSP intends to offer in the RPM Auction or commit to an FRR Capacity Plan in excess of the CSP's Existing MWs on such demand resource.

Note:
Planned Demand Resources must establish an RPM Credit Limit prior to an RPM Auction. Credit requests should be made to PJM's Treasury Department at least two weeks prior to an RPM Auction.

A resource provider may offer Demand Resources (Planned or Existing) associated with Behind the Meter Generation for an entire Delivery Year into the Base Residual or Incremental Auctions. If the DR offer clears in an RPM auction for a given Delivery Year, the operating Behind the Meter Generation cannot be netted from load for the purposes of calculating he Peak Load Contributions for the subsequent Delivery Year in accordance with ***Generator Operational Requirements Manual (M-14D), Appendix A: Behind the Meter Generation Business Rules.***

If offering as a Demand Resource in the Base Residual Auction or Incremental Auction, a sell offer must be submitted in the Base Residual Auction or Incremental Auction. Demand Resources offered and cleared in a Base Residual or Incremental Auction will receive the corresponding LDA product-specific Resource Clearing Price determined by the optimization algorithm.

4.3.4 Demand Resource Modifications (DR Mods)

A Demand Resource Modification (DR MOD), a type of Capacity Exchange transaction, can be used to track an increase or decrease of the nominated value of a provider's DR Resource in the Capacity Exchange system. DR MODs are no longer submitted by DR Providers. PJM may submit a DR MOD for an FRR Entity to establish the Daily Nominated DR Value for an FRR Entity's Demand Resource based on PJM's approval of the FRR Entity's DR Sell Offer Plan. After the Delivery Year demand resource registration process begins in DR Hub system, the Daily Nominated DR Value for a Demand Resource is established based on confirmed Demand Resource Registrations in "completed" status linked to the DR Resource in the DR Hub system. The Daily Nominated DR Value for a Capacity Performance Demand Resource during the summer period of June through October and May of the Delivery Year is based on the sum of the summer nominated DR values of the registrations linked to such Demand Resource. The Daily Nominated DR Value for a Demand Resource during the non-summer period of November through April is based on the lesser of (a) the sum of the summer nominated DR values of the

registrations linked to such Demand Resource or (b) the sum of the winter nominated DR values of the registrations linked to such Demand Resource.

4.3.5 Pre-Emergency and Emergency Load Response Registration

Pre-Emergency and Emergency Load Response Registration is the process of providing the following information through the submittal of a Pre-Emergency or Emergency Load Response registration into PJM's DR Hub system. As part of this process, resource providers will submit the following types of information:

- Customer-specific load management information for planning and verification purposes (i.e., EDC account number, Zone, etc.)
- Customer-specific information to establish nominated load management levels (i.e., Peak Load Contribution, Winter Peak Load, EDC Loss Factor, notification period, Firm Service Level data (summer and winter), Guaranteed Load Drop data (summer and winter). Winter Peak Load and winter Firm Service Levels are required for Capacity Performance DR registrations. However, Winter Peak Load and winter Firm Service Levels are not required if such registration indicates that it is a Summer-Period DR Only registration. Economic, Pre-Emergency, or Emergency Load Response registrations that would like to be eligible for Bonus Performance for a Performance Assessment Interval must have both customer-specific summer and winter based data provided in the registration.
- Demand Resource name to link the Demand Resource Registration to the appropriate Demand Resource modeled in the Capacity Exchange system.
- Load Management product type for customer site (Capacity Performance DR, Summer-Period DR[14]).
- A point of contact with appropriate backup to ensure single call notification from PJM and timely execution of the notification process

A resource provider who has RPM or FRR Resource Commitments for their demand resource must register customers in the Full Program Option or as a Capacity Only Option of the Emergency Load Response or Pre-Emergency Load Response Program.

The Full Program and Capacity Only Option enable a resource provider that has approved registrations for the Delivery Year prior to the applicable registration deadline to receive capacity credits, in the form of RPM Auction Credits, if the resource provider cleared their demand resource in an RPM Auction, for that Delivery Year. Full Program Option resource providers

[14] Summer-Period DR is included in Capacity Performance DR registration when a Nominated DR Value based on summer data is greater than Nominated DR Value based on winter data. If Summer- Period DR Only is checked on the registration, such registration is only required to provide Nominated DR Value based on summer capability when dispatched in the summer period. If Summer-Period DR Only is not checked on the registration, the registration is required to provide Nominated DR Value based on summer capability and Nominated DR Value based on non-summer capability.

may claim an energy settlement for a PJM-initiated Load Management Event. Capacity Only Option resource providers may not claim an energy settlement for a PJM-initiated Load Management Event for Capacity Only Option registrations.

Customer sites registered in the Energy Only Program are not eligible to receive capacity credits.

A provider with RPM or FRR Resource Commitments for their Demand Resource must register customer sites that are the Capacity Performance product-type.[15]

A completed Load Response registration in DR Hub for a DR resource must be submitted no later than one day before the tenth business day preceding the relevant Delivery Year. All registrations that have not been approved on or before May 31st preceding the relevant Delivery year shall be rejected by PJM.

Full details of the Pre-Emergency and Emergency Load Response registration and approval process may be found in ***Energy & Ancillary Services Market Operations Manual (M-11), Section 10.***

4.3.6 End-Use Customer Aggregation

A resource provider may aggregate multiple end-use customer sites to create a single Demand Resource for the purposes of submitting an offer in the RPM Auctions, if all the end-use customer sites have the same following characteristics:

- Curtailment Service Provider
- Electric Distribution Company (EDC)
- Transmission Zone (or sub-zonal LDA)

The mechanism for aggregating end-use customer sites to create a single Demand Resource is to select the same Demand Resource for multiple end-use customer sites during the registration process.

4.3.7 Determination of Nominated Values for Load Management

Once an end-use customer is registered in the Pre- Emergency or Emergency Load Response Program (Full Program Option or Capacity Only), a nominated load reduction value is calculated for that customer. A summer and winter nominated load reduction value may be calculated for a registration depending on the product-type registration and Delivery Year. The determination of the value of the load reduction is consistent with the process for determination of the capacity obligation for the customer. Nominated value of a load management resource is equivalent to the Installed Capacity value of a generation resource.

[15] A Capacity Performance product-type registration includes Summer-Period DR when a Nominated DR Value based on summer data is greater than Nominated DR Value based on winter data.

For an end-use customer registration, the summer nominated DR value for the registration is based on the Peak Load Contribution in place at the time of the registration in the DR Hub system. The winter nominated DR value for a Capacity Performance registration is based on the Winter Peak Load at the time of the registration in the DR Hub system.

Nominated Value of Firm Service Level Resources

A registration for a Firm Service Level (FSL) customer includes a summer nominated DR value. Registrations of the Capacity Performance product-type also include a winter nominated DR value.

The summer nominated DR value for a Firm Service Level customer on Capacity Performance DR and Summer-Period DR Only product-type registrations is equal to the difference between its Peak Load Contribution (PLC) and its pre-determined summer firm service level load adjusted for system losses.

$$Summer\ NominatedValueofFSLCustomer = PLC - (SFSL * LossF)$$

Where:

PLC	the customer's EDC-assigned Peak Load Contribution;
SFSL	Summer Firm Service Load level;
LossF	the customer's EDC-assigned loss factor.

The winter nominated DR value for a Firm Service Level customer on a Capacity Performance product-type registration is calculated as (Winter Peak Load for customer multiplied by Zonal Winter Weather Adjustment Factor minus winter Firm Service Level) times the loss factor.

If a Capacity Performance product-type registration indicates that such registration is for Summer-Period DR Only, the winter nominated DR value for a Firm Service Level registration will be zero.

The Winter Peak Load is determined by the Curtailment Service Provider based on the average of the Demand Resource customer's specific peak hourly load between hours ending 7:00 EPT through 21:00 EPT on the PJM defined 5 coincident peak days from December through February two Delivery Years prior to the Delivery Year for which the registration is submitted. Notwithstanding, if the average use between hours ending 7:00 EPT through 21:00 EPT on a winter 5 coincident peak day is below 35% of the average hours ending 7:00 EPT through 21:00 EPT over all five of such peak days, then up to two such days and corresponding peak demand

values may be excluded from the calculation. If no hourly load data exists for December through February two Delivery Years prior to the Delivery Year, or if more than two days meet the exclusion criteria, then the CSP may use the most recent December through February hourly load data to calculate the Winter Peak Load, upon PJM verification. If no hourly load data for the customer exists for the last two December through February periods prior to the Deliver Year, or if more than two days meet the exclusion criteria for the last two December through February periods prior to the Delivery Year, the CSP may provide alternative data to support a Winter Peak Load subject to PJM's review and approval of the use of alternative data.

The Zonal Winter Weather Adjustment Factor is equal to the zonal winter weather normalized peak divided by the zonal average of five coincident peak loads in December through February. PJM posts the RTO winter 5 CP days on the PJM website. PJM calculates and posts the Zonal Winter Weather Adjustment Factors on the PJM website.

Nominated Value of Guaranteed Load Drop Resources

A registration for a Guaranteed Load Drop (GLD) customer includes a summer nominated DR value. Registrations of the Capacity Performance product-type also include a winter nominated DR value and an annual nominated DR value.

The summer nominated DR value for a Guaranteed Load Drop customer on a Capacity Performance DR and Summer-Period DR Only product-type registrations will be the summer guaranteed load drop amount, adjusted for system losses, as established by the customer's contract with the resource provider. The summer nominated value shall not exceed the customer's Peak Load Contribution.

$$Summer\ NominatedValueofGLD = SGLD\ (LossF)$$

Where:

GLD	Customer's Summer Guaranteed Load Reduction;
LossF	the customer's EDC-assigned loss factor.

The winter nominated DR value for a GLD customer on a Capacity Performance product-type registration shall equal the winter guaranteed load drop amount multiplied by the loss factor, as established by the customer's contract with the resource provider. The winter nominated DR value shall not exceed the Winter Peak Load for customer multiplied by Zonal Winter Weather Adjustment Factor times the loss factor. If a Capacity Performance product-type registration indicates that such registration is for Summer-Period DR Only, the winter nominated DR value for the GLD customer on the registration will be zero.

4.3.8 Determination of the UCAP Value of Load Management

Prior to the 2025/2026 Delivery Year, unforced capacity (UCAP) value of a Load Management product is equal to the Nominated Value of that product multiplied by the Forecast Pool Requirement.

$$UCAPValue_{LM} = NominatedValue * FPR$$

Beginning with the 2025/2026 Delivery Year, the unforced capacity (UCAP) value of a Load Management product is equal to the Nominated Value of that product multiplied by the applicable ELCC Class Rating.

$$UCAPValue_{LM} = Nominated\ \ Value * \ \ applicable\ \ ELCC\ \ Class\ \ Rating$$

4.3.9 Load Reduction Reporting

PJM requires an accurate estimate of the amount of energy that will be reduced in direct response to PJM dispatch of Pre-Emergency and Emergency Demand Response capacity resources. This information will be used by PJM to determine the amount of DR resources to dispatch during a pre-emergency or emergency event. The Curtailment Service Provider will contact DR resources, as necessary, to determine a reasonably accurate load reduction capability. The CSP will analyze and review the load reduction capability on a periodic basis to ensure it is reasonably accurate before it is provided to PJM.

Load Reduction Capability

The Load Reduction Capability provided by the CSP should represent the expected future incremental load reduction of energy that will be provided by the DR resources if dispatched by PJM under pre-emergency or emergency conditions. The Load Reduction Capability should only include energy load reductions expected to occur if a pre-emergency or emergency DR event is declared. This is independent of the committed capacity MW on the registration(s) and represents the operational expectations regarding the ability to reduce load for the specific time period. The Load Reduction Capability should not include load reductions that have already occurred or are already planned such as the following:

- Planned or unplanned outages at the facility
- Load reductions based on high expected prices, peak shaving or existing contract provisions

PJM will adjust, downward, the reported Load Reduction Capability values to account for any real time or day ahead economic market dispatch that has been assigned to the registered

location(s) by PJM. The difference between the Load Reduction Capability and any economic dispatch reductions will indicate the estimated load reductions still available and able to respond to a PJM call for Pre-Emergency or Emergency DR.

Reporting

Curtailment Service Providers that have active Full Program Option or Capacity Only registrations shall provide PJM the Load Reduction Capability by zone, by lead time, and by product-type on a monthly basis, to be submitted by the last business day of a given month and effective on the first business day of the following month. During the months of June through September, CSPs will provide any updates to this information for each day by no later than 4 p.m. on the day prior to the operating day.

On days for which a Maximum Emergency Generation/Load Management Alert or Action has been issued as communicated through the PJM ALL CALL and/or published on Data Viewer emergency messages, the Curtailment Service Provider shall on an hourly basis provide any updates to their information for the remaining hours of the day beginning at 10 a.m. and continuing until 7 p.m.

The Curtailment Service Provider shall submit the information electronically to the appropriate PJM system.

4.3.10 Maintenance Outage Reporting for Annual Demand Resource

A Capacity Performance product Pre-Emergency or Emergency Load Response registration may request a maintenance outage during the months of October through April. The maintenance is defined as:

- maintenance to a device or generator used to reduce load at the end use customer location that cannot be reasonably scheduled outside of the annual product availability window, or
- maintenance of a CSP's system used to dispatch DR, but such maintenance shall be limited to no more than two times per quarter, shall not exceed one day in duration, and shall be on a Saturday or Sunday.

The outage request must be submitted at least four business days before the requested start date in the appropriate PJM system and will be evaluated on a first come first served basis. If a request is submitted less than four business days in advance, PJM may approve the request up to one day prior to operating day. The maintenance outage must be between one and thirty days and an extension may be requested during an approved outage at least four business days before the beginning of the extension period. PJM may deny a maintenance outage request if the outage is expected to create reliability issues. A maintenance outage denied by PJM may be resubmitted by the CSP to request another time period for the outage. CSPs should make a best effort not to request outages during weekday Capacity Performance product availability hours for the months of January and February. A CSP may cancel maintenance

outage at any time and the associated registration(s) will be required to respond to a PJM initiated Load Management Event and shall be measured for event compliance or Non-Performance Assessment if the event or Performance Assessment Interval starts after PJM receives the cancellation. PJM may cancel a previously approved maintenance outage one day prior to the start of the outage for reliability concerns.

A registration associated with an approved maintenance outage that is in effect during a Performance Assessment Interval will not be considered as dispatched for such Performance Assessment Interval.

4.4 Energy Efficiency Resources

An Energy Efficiency (EE) Resource is a project that involves the installation of more efficient devices/equipment, or the implementation of more efficient processes/systems, exceeding then current building codes, appliance standards, or other relevant standards, at the time of installation, as known at the time of commitment, and meets the requirements of ***Schedule 6 (section L) of the Reliability Assurance Agreement***. The EE Resource must achieve a permanent, continuous reduction in electric energy consumption at the End Use Customer's retail site (during the defined EE Performance Hours and during winter performance period if such EE Resource is a Capacity Performance Resource) that is not reflected in the peak load forecast used for the Auction Delivery Year for which the EE Resource is proposed. The EE Resource must be fully implemented at all times during the Delivery Year, without any requirement of notice, dispatch, or operator intervention.

Because energy efficiency measures are reflected in the peak load forecast for a Delivery Year for which an auction is being conducted, the auction parameters must be adjusted through the 2025/2026 Delivery Year, as described is Section 2.4.5, for the EE Resource(s) that are proposed for that auction in order to avoid double-counting of the energy efficiency measures.

The EE Performance Hours are defined as the hours between the hour ending 15:00 Eastern Prevailing Time (EPT) and the hour ending 18:00 EPT during all days from June 1 through August 31, inclusive, of such Delivery Year, that is not a weekend or federal holiday.

An EE installation is eligible to offer through the 2025/2026 Delivery Year into an RPM auction or commit to an FRR Capacity Plan if it meets the following criteria:

- EE installation must be scheduled for completion prior to DY;
- EE installation is not reflected in peak load forecast used for the auction for which the EE is offered (is not reflected in peak load forecast used as basis for FRR Capacity Plan requirements if committing to an FRR Capacity Plan);
- EE installation exceeds relevant standards at time of installation as known at time of commitment;
- EE installation achieves load reduction during defined EE Performance Hours; and

- EE installation is not dispatchable[16].

An Existing EE Resource is defined as an EE Resource with a PJM approved Post-Installation Measurement & Verification (M&V) Report. A Planned EE Resource is defined as an EE Resource that does not have a PJM approved Post-Installation M&V Report.

If cleared in an RPM Auction, a Capacity Performance EE Resource will receive a Capacity Performance Resource Clearing Price for the LDA in which the EE Resource resides and a Summer-Period EE Resource will receive a Resource Clearing Price applicable to the EE Provider's cleared Seasonal Capacity Performance sell offer as described in Section 4.10 of this manual.

An EE Resource may participate in RPM Auctions or commit to FRR Capacity Plan for a maximum of up to four consecutive Delivery Years. The time period of an Energy Efficiency installation determines whether an installation is eligible to be a capacity resource for a Delivery Year. The time period of Energy Efficiency installations and their associated eligibility, in addition to the modeling of EE Resources in the PJM Capacity Market, is presented in ***PJM Manual 18B: Energy Efficiency Measurement &Verification.***

An EE Resource must meet the following minimum requirements:

- Submit Initial Measurement & Verification (M&V) Plan no later than 30 days prior to RPM Auction in which the EE Resource is initially offered or 30 days prior to the FRR Capacity Plan in which the EE Resource is initially offered;
- Submit Updated M&V Plan no later than 30 days prior to next RPM auction in which EE Resource is subsequently offered or no later than 30 days prior to next FRR Capacity Plan update in which the EE is subsequently committed;
- Submit a completed Nominated EE Value Template with the M&V Plan using the current Nominated EE Value Template posted on the PJM website;
- Establish credit with PJM Credit Department prior to RPM Auction or prior to committing EE Resource to FRR Capacity Plan (for Planned EE Resources);
- Submit Initial Post-Installation M&V Report no later than 15 business days prior to first Delivery Year that the EE Resource is committed;
- Submit Updated Post-Installation M&V Reports no later than 15 business days prior to each subsequent Delivery Year that the EE Resource is committed; and
- Permit Post- Installation M&V Audit(s) by PJM or Independent Third Party.

PJM Manual 18B: Energy Efficiency Measurement & Verification establishes the requirements for the Initial M&V Plan, Updated M&V Plans, Initial Post-Installation M&V Report, Updated Post-Installation M&V Reports, and the M&V Audit.

16 Dispatchable demand may be offered as a Demand Resource in the PJM Capacity Market.

The following rules apply for Energy Efficiency Resources to facilitate the implementation of any restrictions that may be imposed on Energy Efficiency Resources by a Relevant Electric Retail Regulatory Authority (RERRA) authorized by FERC to opt-out and restrict the sale of Energy Efficiency Resources into PJM Capacity Market (i.e., the Authorized RERRA).

- If a RERRA receives FERC authorization to qualify or prohibit Energy Efficiency Resource participation in a specific area(s) of PJM the following process applies:
  - PJM will publicly post a reference to the FERC authorization of a RERRA order, ordinance or resolution that qualifies or prohibits Energy Efficiency Resource participation, the applicable EDC(s), and applicable auction(s), and/or Delivery Years.
  - A Capacity Market Seller that intends to offer or certify Energy Efficiency Resources must identify and itemize all resources located in the jurisdiction of the Authorized RERRA within the Zone or LDA, as required, and those outside the area but within the Zone or LDA, as required, in the such Seller's Energy Efficiency M&V Plan for the Delivery Year RPM Auction or Seller's Delivery Year Post-Installation M&V Report.
  - PJM shall provide a list of Capacity Market Sellers to the relevant EDC for the specific area(s) to review compliance with the Authorized RERRA. PJM shall provide the list of Capacity Market Sellers within two business days after the deadline for submitting an EE M&V Plan for a DY Auction and within two business days of receipt of Delivery Year Post Installation M&V Report.
  - The relevant EDC shall review compliance with the rules from an Authorized RERRA and provide a response to PJM within five business days after receiving the list of Capacity Market Sellers offering or certifying EE Resources.
  - PJM shall not allow a Capacity Market Seller to offer or certify EE Resources if an EDC denies such Capacity Market Seller to deliver EE Resources in compliance with rules of Authorized RERRA.

A Capacity Market Seller that cannot satisfy its obligations for the relevant Delivery Year due to the prohibition of participation by Authorized RERRA may be relieved of its Capacity Resource Deficiency Charge by notifying PJM no later than seven calendar days prior to the posting of the Planning Parameters for the Third Incremental Auction of such Delivery Year. After providing such notice, the affected Capacity Market Seller shall not be required to obtain replacement capacity for the affected EE Resource and no Capacity Resource Deficiency Charges shall be assessed for the Seller's deficiency in satisfying its RPM obligation for such EE Resource for the relevant Delivery Year. The Capacity Market Seller shall not be entitled to, nor be paid, any RPM Auction Credits for such EE Resource for the relevant Delivery Year. PJM shall apply corresponding adjustment to the quantity of PJM Buy Bids or Sell Offers in the Third Incremental Auction for such Delivery Year.

4.4.1 Determination of Nominated Value of EE Resource

The Nominated EE Value of an EE Resource is the expected average demand (MW) reduction during the defined EE Performance Hours in the Delivery Year. EE Resources that qualify as a Capacity Performance product type shall also have an expected average load reduction during

winter performance period (i.e., all days from January 1 through February 28, inclusive, of such Delivery Year that is not a weekend or federal holiday, between the hour ending 8:00 EPT and hour ending 9:00 EPT, and between the hour ending 19:00 EPT and hour ending 20:00 EPT), that is not less than the Nominated EE Value determine during the defined EE Performance Hours. If the Nominated EE Value determined during the defined EE Performance hours is greater than the expected average demand during the defined winter hours, the expected demand during the defined winter hours will be the Capacity Performance value of the Capacity Performance EE Resource. The Nominated EE Value of a Summer-Period Energy Efficiency Resource is the expected average demand reduction during the defined EE Performance Hours in the Delivery Year. The minimum Nominated EE Value accepted in the PJM Capacity Market is 0.1 MW.

The Measurement & Verification (M&V) Plan describes the methods and procedures for determining the Nominated EE Value of an EE Resource (value based on load reduction provided during EE Performance Hours) and the Capacity Performance value (value based on the consideration of load reduction provided during EE Performance Hours and winter performance period) and confirming that the Nominated EE Value and Capacity Performance value is achieved.

The Nominated EE Value approved by PJM in EE Resource Provider's Initial/Updated M&V Plan establishes the Nominated EE Value that may be offered in an RPM Auction or committed to an FRR Capacity Plan (on a summer period basis). The Capacity Performance value approved by PJM in the EE Resource Provider's Initial/Updated M&V Plan provides guidance to the EE Resource Provider on the maximum amount of MWs that should be offered in Capacity Performance Offer Segments or committed as Capacity Performance in an FRR Capacity Plan on an annual basis.

The last Post-Installation M&V Report submitted and approved by PJM prior to the Delivery Year that the EE Resource is committed establishes the final Nominated EE Value and final Capacity Performance value that is used to measure RPM Commitment Compliance and FRR Capacity Plan compliance during the Delivery Year. Failure to submit an Initial/Updated Post-Installation M&V Report or failure to demonstrate that post-installation M&V activities were performed in accordance with the timeline in the approved M&V Plan will result in a final Nominated EE Value and final Capacity Performance value equal to zero MWs for the relevant Delivery Year. If an M&V Audit is performed and results finalized prior to the start of a Delivery Year, the Nominated EE Value or Capacity Performance value confirmed by the Audit becomes the final Nominated EE Value or final Capacity Performance value that is used to measure RPM Commitment Compliance during the Delivery Year. If the M&V Audit is performed and results finalized after the start of a Delivery Year, the Nominated EE Value or Capacity Performance value confirmed by the M&V Audit becomes the basis to determine if any incremental RPM Commitment Compliance Shortfall needs to be assessed retroactively from June 1 of the Delivery Year to May 31 of the Delivery Year.

4.4.2 Determination of the UCAP Value of EE Resource

The UCAP value of a Capacity Performance Resource is the Capacity Performance value of the EE Resource multiplied by the Forecast Pool Requirement. The UCAP value of a Summer Period Energy Efficiency Resource is Nominated EE Value multiplied by the Forecast Pool Requirement.

$$UCAPValue_{CP\ EE} =$$

$$Capacity\ Performance\ Value * FPR$$

$$UCAPValue_{SummerPeriod\ EE} = NominatedEEValue * FPR$$

4.4.3 Energy Efficiency Resource Modifications (EE MODs)

An Energy Efficiency Modification (EE MOD), a type of Capacity Exchange transaction, is used to track an increase or decrease of the EE Nominated Value of a provider's EE Resource in the Capacity Exchange system. EE MODs are no longer submitted by EE Resource Providers. Prior to the commitment of an EE Resource to an FRR Entity's FRR Capacity Plan, PJM submits an EE MOD in the Capacity Exchange system to represent the Nominated EE Value of an EE Resource to be effective June through October and May of the Delivery Year and an EE Mod to represent the Capacity Performance Value of an EE Resource to be effective for November through April of the Delivery Year based on an EE Provider's approved initial/updated EE M&V Plan. Prior to the Delivery Year, PJM submits an EE MOD to represent the final Nominated EE Value of an EE Resource to be effective for June through October and May of the Delivery Year and an EE MOD to represent the Capacity Performance value of the EE Resource to be effective for November through April of the Delivery Year based on PJM's approval of the provider's Post Installation M&V Report for such Delivery Year.

4.5 Qualified Transmission Upgrades

A Qualifying Transmission Upgrade may be offered into the Base Residual Auction to increase import capability into a transmission-constrained LDA (Sink LDA) from a Source LDA. Such transmission upgrade must meet the following minimum requirements.

- Must have been approved and an incremental import capability value must have been assigned by the PJM Planning Department at least 45 days prior to the auction.
- The planned transmission upgrade in-service date must be on or before the start of the Delivery Year.
- At a minimum, Upgrade Customers must be in the Facilities Study phase for the proposed transmission upgrade, in order for approval to be granted and the transmission upgrade must conform to all applicable standards of the PJM Regional Transmission Expansion Planning Process.
- Qualified Transmission Upgrades must establish an RPM Credit Limit prior to an RPM Auction.

- Credit requests should be made to PJM's Treasury Department at least two weeks prior to an RPM Auction.

If a Qualifying Transmission Upgrade that was cleared in the Base Residual Auction is not completed by the start of the Delivery Year, the party who submitted the offer shall provide a replacement in the form of an equivalent amount of capacity resource of the Capacity Performance product type within the Sink LDA by the start of the delivery Year. If replacement capacity is not provided, a Transmission Upgrade Delay Penalty shall apply.

A Qualifying Transmission Upgrade that cleared in the Base Residual Auction will be paid the Locational Price Adder of the Sink LDA less the Locational Price Adder of the Source LDA, multiplied by the megawatt quantity of incremental import capability cleared. A cleared Qualifying Transmission Upgrade is not automatically included in CETL analysis for future delivery years.

Once the Qualifying Transmission Upgrade is in service, the Qualifying Transmission Upgrade is no longer eligible to continue to offer the approved incremental import capability value into future RPM Auctions. Once in service, the transmission upgrade is included in the CETL analysis for future Delivery Years and the approved incremental import capability of the upgrade is valued as an Incremental Capacity Transfer Right as described in section 6.1.2 of this manual.

4.6 Bilateral Transactions

Bilateral Transactions in the Reliability Pricing Model are transactions for capacity between a buyer and seller. Bilateral Transactions may be reported to PJM for inclusion in the PJM billing process for unit-specific capacity or Auction Specific MW capacity. Parties in all bilateral transactions reported to PJM agree to indemnify PJM against non-performance by their counterparties in such transactions.

PJM posts reference prices at various points in order to facilitate bilateral trading on the part of market participants. The posted pricing points include LDA and Hub pricing points (associated with a Base Residual Auction (BRA) Resource Clearing Price in a LDA), Net Load pricing points (associated with a Final Zonal Capacity Price less Final Zonal CTR Credit Rate), PZonal pricing points (associated with Preliminary Zonal Capacity Price), FZonal (associated with Final Zonal Capacity Price), and 1IA, 2IA, and 3IA pricing points (associated with a First Incremental Auction (1IA), Second Incremental Auction (2IA), or Third Incremental Auction (3IA) Resource Clearing Price in an LDA). The available pricing points and their definitions are posted on the PJM website.

Additional pricing points will be added by PJM if requested by stakeholders. However, the definition of the pricing points will remain static once created.

4.6.1 Unit-Specific Bilateral Transactions

The purpose of reporting a unit-specific bilateral transaction to PJM (regardless of the type of capacity transacted) is to transfer the rights to or control of a specified amount of installed capacity from the Seller to the Buyer. Bilateral contracts for unit-specific capacity resources may be offered into PJM's RPM if these products meet the requirements specified in this Manual.

PJM will provide electronic bulletin board functionality in Capacity Exchange. The bulletin board allows participants to post and view requests to buy or offers to sell capacity resources. The purpose of the bulletin board functionality is to facilitate bilateral transaction activity.

4.6.2 Entering Unit-Specific Bilateral Transactions

Unit-specific bilateral transactions reported to PJM may wholly or partially offset an LSE's Locational Reliability Charges in the PJM billing process provided that Available installed capacity purchased through the bilateral transaction is directly offered and cleared in a Base Residual Auction or Incremental Auction or is designated as a self-scheduled resource in a Base Residual Auction (i.e., the RPM Auction Credits received may offset the Locational Reliability Charges assessed in your PJM bill).

The smallest increment of installed capacity that may be reported to PJM as unit-specific transactions is 0.1 MW.

PJM does not recognize "slice of system" or unforced capacity credit bilateral transactions in RPM Auctions.

Both parties of a unit-specific transaction must confirm the transfer of installed capacity from the seller to the buyer via the Capacity Exchange system prior to the start date of the transaction.

Unit-specific transactions to an "External Party" (i.e., "EXT") must be in "Pending PJM" status two business days prior to the start date of the transaction.

All unit-specific bilateral transactions that cover the Delivery Year must be in "Provisionally Approved" or "Approved" status in the Capacity Exchange system prior to the opening of the Base Residual Auction or an Incremental Auction's bidding window in order for the transactions to be considered in a party's Generation Resource Position and the calculation of Available ICAP to offer for a Base Residual Auction or an Incremental Auction or to be used for self-scheduling in the Base Residual Auction.

Unit-specific transactions cannot be created during an RPM Auction's bidding window and clearing week.

Unit-specific transactions that are not in the "Approved" status by the start date of the transaction will have their status changed to "PJM Withdrawn".

Unit–specific bilateral transactions may be reported for the following installed capacity types: Available, Unoffered, or Cleared.

Unit specific transactions reported for either Available or Unoffered capacity must specify:

- The unit to be transacted
- A start and end date for the transaction
- An installed capacity (ICAP) MW value

Unit specific transactions reported for Cleared capacity must specify:

- The unit to be transacted
- A start and end date for the transaction
- The auction in which the unit cleared (Base Residual Auction, First Incremental Auction, Second Incremental Auction, Third Incremental Auction).
- The Capacity Performance offer segment-type applicable to the MWs cleared: Annual, Seasonal-summer, or Seasonal-winter
- The Resource Clearing Price applicable to the MWs cleared in Seasonal Capacity Performance Resource sell offer
- An unforced capacity (UCAP) MW value. Once approved, the unforced capacity MW value will be converted to an installed capacity MW value using the then-current Accredited UCAP Factor for the specified unit. The installed capacity MW value is capped at the ICAP Owned by the Seller.

The following are business rules that apply to Unit-Specific Bilateral Transactions:

- An Aggregate Resource may not be specified as a unit transacted in a Unit-specific transaction.
- If available capacity type is selected, the Capacity Exchange system will validate that the Seller has Daily Available ICAP to offer for the entire term of the transaction. The Daily Available ICAP to offer on a unit is equal to Daily ICAP Owned – Daily Unoffered ICAP - (Daily RPM Resource Commitments/(Accredited UCAP Factor)) – Daily FRR Capacity Plan Commitments.
- Available installed capacity purchased through a bilateral unit-specific transaction that is registered in PJM's Capacity Exchange system may be directly offered into the Base Residual Auction or Incremental Auctions or designated as a self-scheduled resource in the Base Residual Auction.
- If unoffered capacity type is selected, the Capacity Exchange system will validate that the Seller has Daily Unoffered ICAP to offer for the entire term of the transaction and validate that the Buyer is an External Party (EXT).
- The unoffered capacity type may be selected for a unit-specific bilateral transaction if selling a unit externally (formerly known as "delisting") after the Base Residual Auction has been cleared for the specified transaction dates. To delist a unit before the Base Residual Auction has been run, a party may select the Available capacity type to transact installed capacity to an External Party (EXT).

- If cleared capacity is selected, the Capacity Exchange system will validate that the Seller has cleared capacity of the specified Capacity Performance offer segment-type from the specified auction to offer for the entire term of the transaction.
- An approved unit-specific transaction reported to PJM for Cleared capacity will result in a transfer of the applicable product-specific Auction Credit for the specified number of UCAP MW from the Seller to the Buyer for the entire term of the transaction. In addition, the applicable product-specific RPM Resource Commitment for the specified number of UCAP MWs is also transferred from the Seller to the Buyer for the entire term of the transaction.
- The Seller in a unit-specific transaction for cleared capacity will indemnify PJM Settlement, the LLC, and the Members for any failure by the Buyer of such transaction to pay deficiency penalties and charges owed to PJM Settlement and associated with the capacity that is the basis of the unit-specific capacity transaction for cleared capacity.
- To the extent that capacity identified in the unit-specific transaction for cleared capacity is a resource that has an RPM Credit Requirement, the Buyer must have sufficient credit in place with respect to the credit exposure associated with the obligations of the acquired RPM Resource Commitment.

4.6.3 Exporting a Generation Resource

Exporting (formerly known as "Delisting") a generation resource is accomplished by reporting a bilateral transaction with "External Party" (i.e., "EXT") listed as the "Buyer" in the unit-specific transaction.

Exporting any portion of a generation resource below a party's Daily RPM Resource Commitments/(Accredited UCAP Factor) plus Daily FRR Capacity Plan Commitments for the term of the transaction is not permitted. Only Available or Unoffered ICAP on the unit may be exported.

Exporting of a generation resource may only be done by the party that submitted the Capacity Modification for the unit.

If a portion of a generation resource is to be exported, appropriate documentation must be submitted to PJM to demonstrate that the party exporting the generation resource has a financially and physically firm commitment to an external sale of its capacity and therefore, is exempt from the offer requirement for capacity resources in ***Attachment DD, Section 6.6 of the PJM Open Access Tariff.***

In order for a generation resource that is being exported to be reflected in a party's Available ICAP Position for an RPM Auction, the associated unit-specific transaction must be in an "Approved" status by the opening of the RPM Auction's bidding window.

Capacity Export Charge

A Capacity Export Transmission Customer may procure capacity in one PJM Zone and export the capacity from another Zone to outside PJM. Under the FERC approved tariff effective June 1, 2008, the Capacity Export Transmission Customer will pay a Capacity Export Charge and receive a credit similar to the CTR credit if the Final Zonal Capacity Price for the Zone encompassing the interface with the Control Area to which the capacity is exported is higher than the Final Zonal Capacity Price for the Zone in which the resource designated for the export is located. The Capacity Export Charge collected less the credit will be allocated to the LSEs in the Zone from which capacity is exported.

This Capacity Export Charge and credit are assessed daily and billed monthly. These calculations are independent from the CTR calculations based on Base Residual Auction and all Incremental Auctions. The LSE CTR credits and the Incremental CTR credits will not be changed due to Capacity Export Charge/credit calculations.

A Capacity Export Charge is applicable when Long-Term Firm Transmission Service is reserved from export source to export interface.

If more than one Zone forms the interface with the Control Area to which capacity is exported, the Export Reserved Capacity will be apportioned among the Zones. The Export Reserved Capacity is completely apportioned to the Zone if a fully controllable facility crosses the interface (e.g. dc line). The power flow distribution among multiple interface zones for a capacity export would be based on the PJM RTEP Base Power Flow case for the applicable Delivery Year. The power flow distribution calculations are done by modeling the de-listed generator as the source and the designated external load as the sink for the specific capacity exports to be analyzed.

Capacity Export Transmission Customer incurs for each day a Capacity Export Charge equal to the Reserved Capacity of Long-Term Firm Transmission Service multiplied by (the Final Zonal Capacity Price for the Zone encompassing the interface with the Control Area to which the capacity is exported minus the Final Zonal Capacity Price for the Zone in which the resource designated for the export is located).

To recognize the value of firm Transmission Service held, the Capacity Export Transmission Customer receives a credit similar to Capacity Transfer Rights (CTRs) credits. The credit is the Final Zonal Capacity price difference used in determining the Capacity Export Charge times Export Customer's Allocated Share of the Export Path Import.

4.6.4 Importing an External Generation Resource

Importing an external generation resource is accomplished by entering into a bilateral transaction with "External Party" (i.e., "EXT") listed as the "Seller" in the unit-specific transaction. A unit-specific transaction that that represents a capacity import from an external resource that is offering as Capacity Performance product will not be granted a "Provisionally Approved" unit-specific transaction status until the requirements to offer as Capacity Performance in sections 4.2.2 or 4.2.4 are satisfied and will not be granted an "Approved" unit-specific transaction status until the pseudo-tie for such external resource is actually implemented and the external

resource has satisfied PJM's deliverability standards, which for a Prior CIL Exception External Resource may include completing the necessary actions to make a Prior CIL Exception External Resource Operationally Deliverable for the relevant Delivery Year. Demonstrating deliverability may require transmission upgrades on an external Transmission Provider's system or on PJM's system to be completed prior to June 1st of the delivery year.

See sections 4.2.2 and 4.2.4 for the requirements for offering existing or planned external generation resources into RPM Auctions.

Unit-specific transactions that are not in the "Approved" status by the start date of the transaction will have their status changed to "PJM Withdrawn".

Unit-specific transactions that are "Provisionally Approved" should refer to the RPM credit business rules for their associated credit requirements.

4.6.5 Treatment of Unit-Specific Capacity Transactions that Start/End Mid-Delivery Year

Unit-specific transactions reported with a Start Date that does not correspond to June 1 or an End Date that does not correspond to May 31 will result in installed capacity that cannot be offered into the Base Residual Auction since a single party does not own the installed capacity for the entire Delivery Year. In addition, this installed capacity will be tracked as Unoffered Capacity after the Base Residual Auction. To address this issue, PJM will facilitate a voluntary process to enable the installed capacity to be offered into the Base Residual Auction for the Delivery Year.

In order to participate, each party of the unit-specific transaction that starts/end Mid-Delivery Year must sign and submit a Self-Schedule Authorization Form found in Attachment B of this Manual, which authorizes PJM to self-schedule the capacity on behalf of the parties in the Base Residual Auction for the Delivery Year. The Authorization Form must be submitted to RPM_Hotline@pjm.com at least 5 business days prior to the opening of the bidding window.

Each party of the unit-specific transaction that starts/ends Mid-Delivery Year must submit a new unit-specific transaction in Capacity Exchange with "Self-Scheduling Coordinator (SELFSC)" as the Buyer prior to the opening of the Base Residual Auction bidding window, so the capacity will be transferred into the SELFSC account for the entire Delivery Year at the time of the Base Residual Auction.

Provided the Self-Schedule Authorization Forms are received and the required unit-specific transactions are submitted, PJM will self-schedule and clear the capacity on-behalf of the parties in the Base Residual Auction for the Delivery Year. The Accredited UCAP Factor at the time of the Base Residual Auction will be used in the resource-specific sell offer in the Base Residual Auction.

After the Base Residual Auction results are posted, PJM will submit unit-specific transactions for Cleared MWs with "SELFSC" as the Seller to transfer capacity back to the Parties (i.e., Buyer in the unit-specific transaction) for the appropriate time periods. No confirmation is required by the Buyer of the unit-specific transaction. The approved unit-specific transactions for Cleared MWs will result in the transfer of ICAP Owned, RPM Resource Commitments, and Auction Credits from the SELFSC account to the Buyer. The Buyer of the Cleared MWs is responsible for any Capacity Resource Deficiency Charges that may be assessed during the term of the unit-specific transaction. In addition, the Buyer of the Cleared MWs is responsible for their share of any Non-Performance Charges or Generation Resource Rating Test Failure Charges that may be assessed during the Delivery Year.

4.6.6 Auction Specific MW Transactions

RPM Market Participants have the ability to report Auction Specific MW Transactions to PJM through the Capacity Exchange system. Auction Specific MW Transactions must be for the transfer of physical MW of capacity from a seller to a buyer at the location of the physical resources identified as supplying the transaction.

The following are business rules that apply to Auction-Specific MW Transactions:

- Auction Specific MW Transactions are not eligible to be offered in an RPM auction.
- Auction Specific MW Transactions for a Delivery Year may be submitted following the completion of the RPM auction to which the transaction applies.
- Auction Specific MW Transactions may be submitted for MWs cleared for a seasonal period (summer or winter) of the Delivery Year following the completion of the RPM auction to which the transaction applies.
- Both the Buyer and the Seller of Auction Specific MW Transaction must confirm the Auction Specific MW Transaction via the Capacity Exchange system before the start date of the Delivery Year.
- An Auction Specific MW Transaction must specify the buyer, seller, start and end dates of the transaction.
- The Seller of the Auction Specific MW must also specify the resource(s) (generation resource, demand resource, or energy efficiency resource), Auction Type (Base, First, Second, Third, or Conditional), Capacity Performance offer segment type (Annual, Seasonal-Summer, or Seasonal-Winter), and the MW amount of Auction Specific MW to be transacted from each resource. PJM will verify that the MW of capacity from each of the resources identified as supplying the Auction Specific MW Transaction have cleared in an RPM auction and that at least the MW of cleared capacity indicated for each resource is not committed in any other bilateral transactions. If such sufficient cleared capacity does not exist on any of the indicated resources, PJM will reject reporting of the transaction.
- Auction Specific MW Transactions transfer the capacity rights of the cleared capacity from the Seller to the Buyer. PJM will verify that those capacity rights are not resold by the

Seller in a future bilateral transaction by tracking the Seller's remaining capacity rights for each resource identified in the Auction Specific MW Transaction.

- Auction Specific MW Transactions for MWs cleared on an annual basis must be reported on an annual basis prior to each Delivery Year, therefore, the start and end date of the transaction must correspond to a Delivery Year. Auction Specific MW Transactions for MWs cleared for a seasonal period must be reported for the seasonal period prior to each Delivery Year. Auction Specific MW Transaction for MWs cleared for summer period must be submitted as an Auction Specific MW Transaction with start date of June 1 of Delivery Year and end date of October 30 of Delivery Year and a separate Auction Specific MW Transaction with a start date of May 1 of the Delivery Year and end date of May 31 of the Delivery Year. Auction Specific MW Transaction for MWs cleared for winter period must be submitted with start date of November 1 of Delivery Year and end date of April 30 of the Delivery Year.
- Auction Specific MW Transactions are priced at the weighted average of the Resource Clearing Prices from the RPM auctions in which the MW from the units supplying the transaction cleared.
- The smallest increment that may be transacted through an Auction Specific MW Transaction is 0.1 MW.
- The Seller of the Auction Specific MW is subject to all applicable resource performance charges, including Capacity Resource Deficiency Charges, Non-Performance Charges, and Generation Resource Rating Test Failure Charges.
- The Buyer of the Auction Specific MW will receive any Capacity Performance bonus credits related to the resource(s) identified in the transaction that over-perform during a Performance Assessment Interval. The Buyer's share of bonus credits for each over-performing resource will be based on the ratio of the resource's cleared MWs (in UCAP) transferred in the Auction Specific MW Transaction to the greater of the (a) resource's cleared UCAP transferred or (b) Seller's daily Owned UCAP position for such resource.
- The Buyer will indemnify PJM Settlement, the LLC, and the Members for any failure by the Seller of the Auction Specific MW transaction to pay deficiency penalties and charges owed to PJM Settlement and associated with the capacity that is the basis of the Auction Specific MW transaction.
- PJM reserves the right under the PJM Operating Agreement and PJM Open Access Transmission Tariff, to deny reporting of Auction Specific MW Transactions in the event one of the parties fails to meet any requirements for such reporting.
- The Seller of an Auction Specific MW Transaction will receive a charge equal to the transaction amount (in MW) times the price associated with in the transaction for the term of the transaction.
- The Buyer of an Auction Specific MW Transaction will receive a credit equal to the transaction amount (in MW) times the price associated with the transaction for the term of the transaction.

- The resource(s) transferred to the Buyer in an Auction Specific MW Transaction cannot be subsequently resold in another bilateral transaction by the Buyer during the effective time period of the transaction.

4.6.7 Cleared Buy Bid Transactions

RPM Market Participants have the ability to report Cleared Buy Bid Transactions through the Capacity Exchange system. A Cleared Buy Bid Transaction allows the holder of a Cleared Buy Bid from an Incremental Auction to transfer Cleared Buy Bid MWs to another party for the term of the transaction. A Cleared Buy Bid Transaction will not change the resource position or load obligation of an entity. However, the Buyer may use the Cleared Buy Bid MWs as a replacement resource in a Replacement Capacity Transaction.

The following are business rules that apply to Cleared Buy Bid Transactions:

- Cleared Buy Bid MWs are not eligible to be offered in an RPM auction.
- Both the Buyer and the Seller of Cleared Buy Bid MWs must confirm the Cleared Buy Bid transaction via the Capacity Exchange system by 23:59 EPT before the start date of the transaction.
- A Cleared Buy Bid Transaction must specify the buyer, seller, start and end dates of the transaction, the transaction amount (in MW), the LDA, product-type (and Incremental Auction associated with the Cleared Buy Bid. The product-type specified for a Cleared Buy Bid transaction may only be Capacity Performance product type.
- The smallest increment that may be transacted through a Cleared Buy Bid Transaction is 0.1 MW.
- Cleared Buy Bid transaction results in the "Buyer" receiving the Cleared MWs in the applicable LDA and the associated Incremental Auction Charges that would have been assessed to the Seller for the term of the transaction.

4.6.8 Locational Unforced Capacity (UCAP) Transactions

RPM Market Participants have the ability to report Locational UCAP Transactions through the Capacity Exchange system. A Locational UCAP Transaction allows a party with available resource-specific capacity to transfer Locational UCAP (MWs) to another party. A Locational UCAP Transaction will not change the resource position or load obligation of an entity. However, the Buyer may use the Locational UCAP as a replacement resource in a Replacement Capacity Transaction.

The following are business rules that apply to Locational UCAP Transactions:

- Locational UCAP MWs are not eligible to be offered in an RPM auction.
- Both the Buyer and the Seller of Locational UCAP MWs must confirm the Locational UCAP Transaction via the Capacity Exchange system by 23:59 EPT before the start date of the transaction.

- Locational UCAP transactions for a Delivery Year will be restricted as follows during the following periods:
  - Prior to the locking of the Delivery Year Accredited UCAP Factor: Locational UCAP transactions will not be accepted.
  - After the locking of the Delivery Year Accredited UCAP Factor, but before the Delivery Year's Third Incremental Auction bidding window opens: Locational UCAP transactions may be accepted; however, the Buyer of the Locational UCAP transaction must demonstrate prior to the Third Incremental Auction that the Locational UCAP was used in a replacement capacity transaction. If the Buyer fails to enter into a replacement capacity transaction prior to the Third Incremental Auction, the Locational UCAP transaction will be denied by PJM.
  - During the Delivery Year's Third Incremental Auction: Locational UCAP transactions will not be accepted.
  - After the Delivery Year's Third Incremental: Locational UCAP transactions will be accepted.
- A Locational UCAP Transaction must specify the buyer, seller, product type, start and end dates of the transaction. The product type specified must be Capacity Performance.
- The Seller of the Locational UCAP must also specify the resource (generation resource, demand resource, energy efficiency resource, or aggregate resource) and the MW amount of locational UCAP to be transacted. The resource specified in the transaction must be must be capable of meeting the requirements of the product type specified in the Locational UCAP transaction.
- The smallest increment that may be transacted through a Locational UCAP Transaction is 0.1 MW.
- A Locational UCAP transaction results in a product-specific RPM Resource Commitment (in UCAP terms), equal to the MW amount of locational UCAP transacted, being placed on the Seller's resource for the term of the transaction.
- The Seller of the Locational UCAP retains ownership of the resource specified in the Locational UCAP Transaction.
- The Seller of the Locational UCAP is subject to all applicable resource performance assessments.
- The Buyer in a Locational UCAP transaction will indemnify PJM Settlement, the LLC, and the Members for any failure by the Seller of such transaction to pay deficiency penalties and charges owed to PJM Settlement and associated with the capacity that is the basis of the Locational UCAP transaction.

4.7 Resource Portfolio

A party's resource portfolio in Capacity Exchange may consist of Generation Capacity Resources, Demand Resources, Energy Efficiency Resources, and Qualifying Transmission Upgrades.

A party's Generation Capacity Resource portfolio may consist of existing generation, planned generation, and bilateral contracts for unit-specific capacity resources. Qualification requirements for generation resources are presented in Existing Generation Capacity Resources, Planned Generation Capacity Resources, and Bilateral Unit-Specific Transaction Sections of this Manual.

4.7.1 Resource Position for Generation Capacity Resources

A party's Daily Generation Capacity Resource Position in unforced capacity terms is calculated dynamically by the Capacity Exchange system for each unit and is equal to the party's Daily ICAP Owned on a unit multiplied by the unit's Accredited UCAP Factor.

A party's Daily ICAP Owned on a unit is calculated by adding the ICAP Value of a unit as determined by a party's approved Capacity Modifications to ICAP amounts transacted through a party's approved unit-specific bilateral sales/purchases. The Installed Capacity (ICAP) Value of a unit is determined in accordance with ***PJM Manual for the Rules and Procedures for the Determination of Generating Capability (M-21 and M-21B).*** Through the 2024/2025 Delivery Year, for an ELCC Resource, the term "ICAP" in this manual refers to the lesser of the Accredited UCAP or the resource's CIRs plus any awarded transitional resource MWs in accordance with Manual 21 Section 1.2. The ICAP value of a Winter-Period Capacity Performance Resource is based on an Intermittent or Environmentally Limited Resource's certified Capacity Interconnection Rights for the winter period of the Delivery Year.

A unit that is in a party's Generation Capacity Resource portfolio may be traded bilaterally if the party has Daily Available ICAP to offer from the unit for the entire term of the bilateral unit-specific transaction. If the Daily Available ICAP for the unit varies for the term of the bilateral unit-specific transaction, only the minimum Daily Available ICAP may be sold in the bilateral unit-specific transaction.

For a party, the Daily Available ICAP on a unit is equal to Daily ICAP Owned – Daily Unoffered ICAP - (Daily RPM Resource Commitments/(Accredited UCAP Factor)) – Daily FRR Capacity Plan Commitments.

$$DailyAvailICAP_{GEN} =$$

$$DailyICAPOwned - DailyUnofferICAP -$$

$$\left(\frac{DailyRPMResourceCommitments}{Accredited\ \ UCAP\ \ Factor}\right) - DailyFRRCommitments$$

A unit that is in a party's Generation Capacity Resource portfolio may be offered into RPM Auctions if the party has available capacity to offer from the unit for the entire term of the RPM Auction Year. A Seasonal Capacity Performance Resource may be offered into RPM Auctions if the party has available capacity to offer from the unit for the entire summer/winter season. For each RPM Auction, PJM will calculate a Current Available ICAP Position.

A party's Current Available ICAP Position on a unit for an RPM Auction is equal to the minimum Daily Available ICAP for such unit during the entire Delivery Year or summer/winter season.

$$CurrentAvailableICAPPosition_{GEN} = Min\left(DailyAvailableICAP_{GEN}\right)$$

A party's Daily Unoffered ICAP for a specific unit is calculated by adding the sum of any Daily Unoffered ICAP for such unit in RPM Auctions to Daily Unoffered ICAP amounts transacted through a party's approved unit-specific bilateral sales/purchases.

$$DailyUnofferICAP_{GEN} =$$

$$DailyUnofferICAP_{RPMAuction} + DailyUnofferICAP_{BilateralSales\,/\,Purchases}$$

For an RPM Auction, a party's Daily Unoffered ICAP for a generation resource is equal to the party's Current Available ICAP Position minus the Offered ICAP in the party's sell offer. A FRR Entity's Daily Unoffered ICAP for a generation resource is set equal to 0 MW.

$$DailyUnofferICAP_{GEN} = CurrentAvailableICAPPosition_{GEN} - OfferedICAP$$

A party's Daily RPM Resource Commitments for a specific generating unit are calculated by adding the sum of any UCAP Cleared plus UCAP Makewhole for such unit in RPM Auctions to decreases/increases of RPM Resource Commitments due to approved unit-specific bilateral sales/purchases of cleared capacity, the specification of replacement resources, and increases of RPM Resource Commitments due to approved Locational UCAP transactions.

A party's Daily FRR Capacity Plan Commitments for a specific unit are equal to the total amount of installed capacity that was committed from the unit for the FRR Capacity Plan.

A party's Daily RPM Generation Capacity Resource Position for a specific unit is equal to the (Daily ICAP Owned – Daily FRR Capacity Plan Commitments – Daily Unoffered ICAP)*(Accredited UCAP Factor).

$$DailyRPMPosition_{GEN} =$$

$$(DailyICAPOwned - DailyFRRCommittments - DailyUnofferICAP)*$$

$$(Accredited\ \ UCAP\ \ Factor)$$

During the Delivery Year, a party's Daily RPM Generation Capacity Resource Position is compared to their Daily RPM Resource Commitments for the generating unit to determine if a Capacity Resource Deficiency Charge is to be assessed.

4.7.2 Resource Position for Demand Resources

A party's Demand Resource portfolio may consist of existing Demand Resources or Planned Demand Resources. Qualification requirements for Demand Resources are presented in Load Management Products Section of this Manual.

A party's Daily ICAP Owned for a specific demand resource is equal to the Daily Nominated DR Value adjusted for the ICAP amounts transacted through a party's approved unit-specific bilateral sales/purchases for such demand resource in effect for such day. The Daily Nominated DR Value for a Demand Resource for a Delivery Year is established based on confirmed Demand Resource Registrations in "completed" status linked to such Demand Resource in the DR Hub system. The Daily Nominated DR Value for a Capacity Performance Demand Resource during the summer period of June through October and May of the Delivery Year is based on the sum of the summer nominated DR values of the registrations linked to such Demand Resource. The Daily Nominated DR Value for a Demand Resource during the non-summer period of November through April is based on the lesser of (a) the sum of the summer nominated DR values of the registrations linked to such Demand Resource or (b) the sum of the winter nominated DR values of the registrations linked to such Demand Resource.

A party's Daily Resource Position for a Demand Resource (in unforced capacity terms) is calculated dynamically by the Capacity Exchange system and is equal to the Daily ICAP Owned multiplied by the Forecast Pool Requirement prior to the 2025/2026 Delivery Year, or, multiplied by the applicable ELCC Class Rating beginning with the 2025/2026 Delivery Year.

A Demand Resource that is in a party's Demand Resource portfolio may be offered into RPM Auctions, if there is Available ICAP to offer from the Demand Resource. A Demand Resource's Available ICAP for an RPM Auction is determined based on pre-registration confirmation process in the Capacity Exchange system for such RPM Auction and PJM's approval of the Curtailment Service Provider's DR Sell Offer Plan for such RPM Auction. A Demand Resource's Existing Available ICAP is determined based on the CSP's completion of the pre-registration process and the DR Existing Setup process in the Capacity Exchange system. A Demand Resource's Planned Available ICAP is determined based on PJM's approval of the CSP's DR Sell Offer Plan and the CSP's completion of the DR Planned Setup process in the Capacity Exchange system. A Demand Resource's Available ICAP is equal to the Existing Available ICAP and Planned Available ICAP. A Demand Resource's Existing Available ICAP and Planned Available ICAP is further classified by CSP in the DR Existing/Planned Setup process as MWs intend to offer as Annual Capacity Performance, MWs intend to offer Summer-Period Capacity Performance, and MWs intend to offer as part of an Aggregate Resource.

A party's Daily RPM Resource Commitments for a specific demand resource are calculated by adding the sum of any UCAP Cleared plus UCAP Makewhole for such demand resource in RPM Auctions to decreases/increases of RPM Resource Commitments due to approved unit-specific bilateral sales/purchases of cleared capacity and the specification of replacement resources, and to increases of RPM Resource Commitments due to approved Locational UCAP transactions.

A party's Daily FRR Capacity Plan Commitments for a specific demand resource are equal to the total amount of Nominated DR that was committed from the demand resource for the FRR Capacity Plan.

Through the 2024/2025 Delivery Year, a party's Daily RPM Demand Resource Position for a specific demand resource is equal to the (Daily ICAP Value – Daily FRR Capacity Plan Commitments) * Forecast Pool Requirement.

$$DailyRPMPosition_{DR} = (DailyNomDRValue - DailyFRRCommittments)*FPR$$

Starting with the 2025/2026 Delivery Year, a party's Daily RPM Demand Resource Position for a specific demand resource is equal to the (Daily ICAP Value - Daily FRR Capacity Plan Commitments) * applicable ELCC Class Rating.

$$= (DailyNomDRValue - DailyFRRCommittments)*Applicable\ \ ELCC\ \ Class\ \ Rating$$

During the Delivery Year, a party's Daily RPM Demand Resource Position is compared to their Daily RPM Resource Commitments for the demand resource to determine if a Capacity Resource Deficiency Charge is to be assessed on the delivery day.

4.7.3 Resource Position for Energy Efficiency Resources

A party's EE Resource portfolio may consist of existing or planned EE Resources. Qualification requirements for EE Resources are presented in Energy Efficiency Resource Section of this Manual. A party's Daily ICAP Owned for a specific EE Resource is equal to the Daily Nominated EE Value as determined by party's "Approved" EE Modifications (submitted by PJM to represent the final Nominated EE Value or Capacity Performance value of a provider's EE Resource for the Delivery Year based on PJM's approval of the provider's Post- Installation M&V Report for such Delivery Year) adjusted for any ICAP amounts transacted through a party's approved unit-specific bilateral sales/purchases for such EE Resource in effect for such day.

A party's Daily EE Resource Position for an EE Resource (in unforced capacity terms) is calculated dynamically by the Capacity Exchange system and is equal to the Daily ICAP Owned * Forecast Pool Requirement.

$$DailyResourcePosition_{EE} = DailyICAPOwned*FPR$$

An EE Resource that is in a party's EE Resource portfolio may be offered into RPM Auctions, if there is Available ICAP to offer from the EE Resource. An EE Resource's Available ICAP for an RPM Auction is determined based on PJM's approval of the provider's Initial/Updated M&V Plan for such RPM Auction and the provider's completion of the EE Setup process in the Capacity Exchange system prior to the RPM Auction. An EE Resource's Existing Available ICAP is determined based on Nominated EE Value approved by PJM in the most recent Post-Installation M&V Report, prior commitments for such Delivery Year (if applicable), and the EE Provider's completion of the EE Existing Setup process in the Capacity Exchange system. A Energy Efficiency Resource's Planned Available ICAP is determined based on PJM's approval of the provider's Initial/Updated M&V Plan for such RPM Auction and the provider's completion

of the EE Planned Setup process in the Capacity Exchange system. An EE Resource's Available ICAP to offer into an RPM Auction is equal to the Existing Available ICAP and Planned Available ICAP for such EE Resource for the relevant RPM Auction Delivery Year. An Energy Efficiency Resource's Existing Available ICAP and Planned Available ICAP is further classified by the EE Resource Provider in the EE Existing/Planned Setup process as MWs intend to offer as Annual Capacity Performance, MWs intend to offer as Summer-Period Capacity Performance, and MWs intend to offer as part of an Aggregate Resource.

A party's Daily RPM Resource Commitments for a specific EE Resource are calculated by adding the sum of any UCAP Cleared plus UCAP Makewhole for such EE Resource in RPM Auctions to decreases/increases of RPM Resource Commitments due to approved unit-specific bilateral sales/purchases of cleared capacity, the specification of replacement resources or the use of EE Resource in a Locational UCAP transaction.

A party's Daily FRR Capacity Plan Commitments for a specific EE Resource are equal to the total Nominated EE Value that was committed from the EE Resource for the FRR Capacity Plan.

A party's Daily RPM EE Resource Position for a specific EE Resource is equal to the (Daily ICAP Owned – Daily FRR Capacity Plan Commitments * Forecast Pool Requirement.

$$DailyRPMPosition_{EE} = (DailyICAPOwned - DailyFRRCommittments)*FPR$$

During the Delivery Year, a party's Daily RPM EE Resource Position is compared to their Daily RPM Resource Commitments for the EE Resource to determine if a Capacity Resource Deficiency Charge is to be assessed on the delivery day.

4.7.4 Resource Position for Qualified Transmission Upgrades

A party's Qualifying Transmission Upgrade portfolio may consist of planned Qualifying Transmission Upgrades. Qualification requirements for Qualifying Transmission Upgrades are presented in Qualifying Transmission Upgrade Section of this manual.

A Qualifying Transmission Upgrade that is in a party's Qualifying Transmission Upgrade portfolio may be offered into a Base Residual Auction if incremental import capability value into Sink LDA from a Source LDA has been approved by PJM System Planning Department.

A party's Daily Qualifying Transmission Upgrade Position for a Qualifying Transmission Upgrade is calculated dynamically by the Capacity Exchange system and is equal to the incremental import capability value into Sink LDA from a Source LDA that has been assigned by PJM System Planning Department.

A party's Daily RPM Resource Commitments for a specific Qualifying Transmission Upgrade are calculated by adding the sum of any UCAP Cleared plus UCAP Makewhole for such Qualifying Transmission Upgrade in RPM Auctions to any decreases of RPM Resource Commitments due to the specification of replacement resources.

During the Delivery Year, a party's Daily RPM Qualifying Transmission Upgrade Position for a qualifying transmission upgrade is compared to their Daily RPM Resource Commitments for the qualifying transmission upgrade to determine if a Transmission Upgrade Delay Penalty is to be assessed.

4.8 Credit Requirements

The purpose of the RPM credit requirement is to encourage future physical performance, but not necessarily fully guarantee financial obligations related to Capacity. Credit requirements for participating in the RPM, therefore, may be different from the other requirements established separately in the PJM Credit Policy, which are intended for other activities and general financial obligations to PJM.

These business rules are intended to be descriptive of the credit requirements for participants in the RPM, but if any conflict arises between provisions in these rules and provisions in the PJM Operating Agreement or PJM Open Access Transmission Tariff (which includes the PJM Credit Policy as Attachment Q), then the provisions in the Operating Agreement and/or Tariff shall govern.

Since LSE payments due to PJM are included in monthly PJM bills, LSE payment obligations are considered to already be measured and covered by provisions of PJM's Credit Policy. Accordingly, no separate credit requirement will be imposed on LSEs under the RPM.

Participants offering into an RPM Auction existing resources (whether generators, demand resources, energy efficiency resources, or external generation resources with firm transmission), are not required to establish credit for the RPM Auctions.

Participants offering into an RPM Auction any Planned Demand Resource, Planned Energy Efficiency Resource, Planned Generation Resource (including External and Financed), Qualified Transmission Upgrade, or external capacity without firm transmission (these five together considered herein to be Resources Requiring Credit for RPM) must establish a separate RPM Credit Limit prior to and for each RPM Auction in which the participant offers planned MWs from a Resource Requiring Credit for RPM.

Participants nominating PRD in advance of a BRA or Third Incremental Auction (for use in RPM Auction or FRR) must establish an RPM Credit Limit before submitting the PRD Plan in advance of the BRA or Third Incremental Auction.

4.8.1 RPM Credit Limit

Acceptable sources of credit for the RPM Credit Limit may be either of the following:

- Any unsecured credit or collateral available, according to provisions of the PJM Credit Policy, which has not already been designated or required for financial obligations under the Credit Policy or for other financial obligations within PJM.

- For RPM credit purposes only, if a supplier has a history of being a net seller into PJM, on average, over the past 12 months, then PJM will count as available unsecured credit twice the average of that participant's total net PJM bills over the past 12 months.
- A supplier may combine more than one source of credit for RPM credit purposes. Credit provided for RPM must be non-cancelable until at least 10 days after payment is due for the last month for which a committed financial obligation could be created or owed.

For Resources Requiring Credit for RPM, credit requests should be made to PJM's Credit Department at least two weeks prior to an RPM Auction. For price responsive demand requiring credit, credit requests should be made to PJM's Credit Department at least two weeks prior to the deadline for submitting the PRD Plan. Credit previously established with PJM for general market activity will not be available for RPM unless the participant specifically makes such a request to the PJM Credit Department.

Although credit provided by a participant may be administratively separated for RPM (or FTR, etc.), all credit supplied by a PJM member or customer, whether or not designated for RPM (or FTR, or any other PJM obligation), may be utilized to cover any PJM financial obligation, should the member or customer default.

PJM will return or release RPM credit provided by participants upon request, as long as such release would not cause a participant's RPM Credit Requirement and/or Price Responsive Demand Credit Requirement to exceed its RPM Credit Limit. Furthermore, PJM reserves the right to establish a maximum frequency of such returns or releases, but no less frequent than once per calendar quarter.

A participant must, at all times, maintain its RPM Credit Limit at least sufficient to meet its RPM Credit Requirement and/or Price Responsive Demand Credit Requirement. If a participant's RPM Credit Requirement and/or Price Responsive Demand Credit Requirement ever exceeds its RPM Credit Limit, PJM may exercise any of the remedies afforded by the Credit Policy, Tariff, Operating Agreement, or other agreements, business rules or manuals, including demand for additional credit and/or declaration of default. Failure to exercise a remedy at any given time shall not preclude PJM from exercising such remedy at a later time.

4.8.2 RPM Credit Requirement

An RPM Credit Requirement will be established for all participants that are offering into an RPM Auction or have already committed into RPM any Resources Requiring Credit for RPM. The RPM Credit Requirement will be equal to the sum of the individual credit requirements for such resources. The credit requirement for a given resource offered into an RPM auction will be a fixed Auction Credit Rate times the unforced MW offered, times an RPM Credit Adjustment Factor. However, the credit requirement for Planned Financed Generation Capacity Resources and Planned External Financed Generation Capacity Resources shall be one half of the product of the RPM Auction Credit Rate, as provided in Section .VI.B.4 of OATT, Attachment Q, times the megawatts to be offered for sale from such resource in a Reliability Pricing Model Auction (though for Planned External Financed Generation Capacity Resources, this reduction may be

limited subject to limits based on firm transmission secured, as further explained herein). The credit requirement for a given resource committed into RPM will be a fixed Auction Credit Rate times the unforced MW committed, times an RPM Credit Adjustment Factor.

RPM Credit Adjustment Factor

The RPM Credit Adjustment Factor for a given resource depends on its status in becoming a fully qualified resource as follows The Credit Adjustment Factor for all Resources Requiring Credit for RPM will be one ("1") except as follows:

- For Planned Demand Resources, the Credit Adjustment Factor will be (1-X), where "X" is the Nominated DR that is certified through an Emergency Load Response Registration divided by the Nominated DR value offered/committed by the Planned Demand Resource.
- For Planned Energy Efficiency Resource, the Credit Adjustment Factor will be (1-X), where "X" is the Nominated EE Value that is confirmed through a PJM approved Post-Installation M&V Report divided by the Nominated EE value offered/committed by the planned energy efficiency resource.
- For existing external generation resources without firm transmission service, the Credit Adjustment Factor will (1-X), where "X" is the MWs of firm transmission service that has been secured for the complete transmission path divided by the MWs of existing external generation resource offered/committed and shall be zero if the Participant has demonstrated that firm transmission service for the complete transmission path has been secured.
- For Planned generation resources (internal and external, financed and non-financed), please see the incremental reduction and associated credit milestones in Section 4.8.5 .
- For Qualifying Transmission Upgrades, the Credit Adjustment Factor will be 0.5 (50%) if a full (not provisional) Generation Interconnection Agreement has been successfully executed but Interconnection Service has not yet begun, and will be zero on the date the Qualifying Transmission Upgrade is placed in service.
- PJM will consider credit adjustment factors other than these on a case-by-case basis.

If a Participant offers a Resource Requiring Credit for RPM into an RPM auction, but the Participant's RPM Credit Limit is insufficient for the participant's RPM Credit Requirement including the new offer, then the offer will be rejected. If the offer was made as part of a sell offer upload file (multiple resources offered simultaneously), then the entire file upload will be rejected. Previous offers made and accepted into an auction will not be rejected solely because a subsequent offer was rejected.

4.8.3 Auction Credit Rate

An Auction Credit Rate is calculated prior to each RPM Auction for such Delivery Year as follows:

- Prior to the posting of the BRA results, the RPM Auction Credit Rate for planned Capacity Performance Resources is equal to the greater of (i) $20/MW-day or (ii) 0.5 times

applicable Delivery Year's Net CONE for modeled LDA where the resource resides (in $/MW-day), times the number of days in the Delivery Year. If the resource does not reside in a modeled LDA, the RTO Net CONE will be used in the determination of the RPM Credit Rate. The RPM Auction Credit Rate for planned Seasonal Capacity Resources is the same as the RPM Auction Credit Rate for planned Capacity Performance Resources; however, the rate is reduced to be proportional to the number of days in the relevant season.

- Upon posting the BRA clearing results, the RPM Auction Credit Rate used for planned Capacity Performance commitments in the BRA is equal to the greater of [(i) $20/MW-day, (ii) .2 times the Capacity Performance Resource Clearing Price for the LDA that applies to the planned Capacity Performance resource, or (iii) the lesser of (a) 0.5 times Net CONE for modeled LDA where the resource resides for such Delivery Year (in $/MW-day) or (b) 1.5 times Net CONE (stated in installed capacity terms as $/MW-day) for the modeled LDA where the resource resides for such Delivery Year minus the Capacity Performance Resource Clearing Price for the LDA that applies to the planned Capacity Performance Resource], times the number of days in the Delivery Year. If the resource does not reside in a modeled LDA, the RTO Net CONE will be used in the determination of the RPM Credit Rate. The RPM Auction Credit Rate used for planned Seasonal Capacity Resource commitments in the BRA is the same as the RPM Credit Rate for planned Capacity Performance commitments in the BRA; however, the rate is reduced to be proportional to the number of days in the relevant season.
- For any planned resource not previously committed for a Delivery Year that participates in an Incremental Auction, the RPM Auction Credit Rate for all planned Capacity Performance Resources is equal to the greater of (i) 0.5 times applicable Delivery Year's Net CONE for modeled LDA where the resource resides (in $/MW-day) or (ii) $20 per MW-day, times the number of days in the Delivery Year. If the resource does not reside in a modeled LDA, the RTO Net CONE will be used in the determination of the RPM Auction Credit Rate. The RPM Auction Credit Rate for any planned Seasonal Capacity Resource not previously committed for a Delivery Year that participates in an Incremental Auction is the same as the RPM Auction Credit Rate for planned Capacity Performance Resources; however, the rate is reduced to be proportional to the number of days in the relevant season.
- Upon posting the results of an Incremental Auction, the RPM Auction Credit Rate used for planned Capacity Performance commitments is equal to the greater of [(i) $20/MW-day, (ii) 0.2 times the Capacity Performance Resource Clearing Price in such Incremental Auction for the LDA that applies to the planned resource, or (iii) the lesser of (a) 0.5 times Net CONE for the modeled LDA where resource resides for such Delivery Year (in $/MW-day) or (b) 1.5 times Net CONE(stated in installed capacity terms as $/MW-day) minus the Capacity Performance Resource Clearing Price in such Incremental Auction for the LDA that applies to the planned capacity Performance Resource], times the number of days in the Delivery Year. If the resource does not reside in a modeled LDA, the RTO Net CONE will be used in the determination of the RPM Auction Credit Rate. The RPM Auction Credit Rate for planned Seasonal Capacity Resource commitments in an Incremental Auction is the same as the RPM Auction Credit Rate for planned Capacity Performance Resource

commitments in an Incremental Auction; however, the rate is reduced to be proportional to the number of days in the relevant season.

- One rate is calculated for each Auction, binding LDA, and resource product type, and applied according to the Auction, LDA, and resource product type in which the capacity was committed.
- For Qualified Transmission Upgrades, the Auction Credit Rate applied will be based on the Locational Deliverability Area in which such upgrade was to increase the Capacity Emergency Transfer Limit (CETL).

4.8.4 Price Responsive Demand Credit Requirement

A PRD Provider seeking to commit PRD in the Base Residual Auction, Third Incremental Auction, or the FRR Alternative, and for which there is a materially increased risk of non-performance for such PRD, must satisfy the Price Responsive Demand Credit Requirement prior to the deadline for submitting the PRD Plan.

The Price Responsive Demand Credit Requirement shall be based on the maximum Nominal PRD Value in the PRD Plan * Forecast Pool Requirement*Price Responsive Demand Credit Rate. For a PRD Provider, the maximum Nominal PRD Value in the PRD Plan may be reduced by the amount of existing PRD that is currently registered and approved in DR Hub system by such PRD Provider on January 1 in advance of the PRD Plan submittal deadline.

Prior to the posting of the results of a Base Residual Auction for a Delivery Year, the Price Responsive Demand Credit Rate shall be (the greater of (i) 0.5 times applicable Deliver Year's Net Cone for the modeled LDA where the price responsive demand resides or (ii) $20/MW-day times the number of days in such Delivery Year. If the price responsive demand does not reside in a modeled LDA, the RTO Net CONE will be used in the determination of the Price Responsive Demand Credit Rate.

After the posting of the Base Residual Auction results, the Price Responsive Demand Credit Rate used for on-going credit requirements for price responsive demand committed in the Base Residual Auction or to the FRR Alternative prior to the Base Residual Auction, shall be the (greater of (i) $20/MW-day, (ii) 0.2 times the Capacity Performance Resource Clearing Price in such auction for the LDA where the PRD load is located, or (iii) the lesser of (a) 0.5 times Net CONE for the modeled LDA where the price responsive demand resides or (b) 1.5 times Net CONE (stated in installed capacity terms as $/MW-day) for the modeled LDA where the price responsive demand resides minus the Capacity Performance Resource Clearing Price for such modeled LDA)times the number of days in the Delivery Year. If the price responsive demand does not reside in a modeled LDA, the RTO Net CONE will be used in the determination of the Price Responsive Demand Credit Rate.

For any additional PRD that seeks to commit in a Third Incremental Auction or seeks to commit PRD to reduce the final unforced capacity obligation of an FRR Entity, the Price Responsive Demand Credit Rate shall be (the greater of (i) 0.5 times applicable Deliver Year's Net Cone for

the modeled LDA where the price responsive demand resides or (ii) $20/MW-day) times the number of days in such Delivery Year. If the price responsive demand does not reside in a modeled LDA, the RTO Net CONE will be used in the determination of the Price Responsive Demand Credit Rate.

After the posting of the Third Incremental Auction results, the Price Responsive Demand Credit Rate used for on-going credit requirements for Price Responsive Demand committed in the Third Incremental Auction or committed to the FRR Alternative to reduce the final unforced capacity obligation of an FRR Entity, shall be (the greater of (i) $20/MW-day, (ii) 0.2 times the Capacity Performance Resource Clearing Price in such auction for the LDA where the price responsive demand resides, or (iii) the lesser of (a) 0.5 times Net CONE for the modeled LDA where the price responsive demand resides or (b) 1.5 times Net CONE (stated in installed capacity terms as $/MW-day) for the modeled LDA where the price responsive demand resides minus the Capacity Performance Resource Clearing Price in such Incremental Auction for such modeled LDA) times the number of days in such Delivery Year. If the price responsive demand does not reside in a modeled LDA, the RTO Net CONE will be used in the determination of the Price Responsive Demand Credit Rate.

4.8.5 Credit Milestones for Planned Generation Capacity Resources

For Planned Generation Capacity Resources, Planned External Generation Capacity Resources and the RPM Credit Requirement shall be reduced by applying the appropriate Incremental Credit Reduction from the tables below as the resource attains the stated milestones. The incremental credit reductions are summed cumulatively to get the total credit reduction from the achieved milestones. To obtain a reduction in RPM Credit Requirement (except for “GIA effective date” and “Commencement of Interconnection Service”), the Capacity Market Seller must submit a sworn, notarized certification of an independent engineer in a form acceptable to PJM, certifying that the engineer has personal knowledge, or has engaged in a diligent inquiry to determine, that the milestone has been achieved and that, based on its review of the relevant project information, the independent engineer is not aware of any information that could reasonably cause it to believe that the Capacity Resource will not be in-service by the beginning of the applicable Delivery Year. The standard certification form can be found on the PJM website. The Capacity Market Seller, must, if requested by PJM, supply to PJM on a confidential basis all records and documents related to the independent engineer's certification. PJM may accept a certification by a Professional Engineer in lieu of a certification by an independent engineer. For Balance sheet financed resources a notarized officer certification of financial close can be used instead of an independent engineer certification of financial close.

The cumulative reduction in credit requirements for planned external resources and planned financed external resources, including the initial 50% reduction for financed resources, shall never be greater than the quotient of the division of firm transmission MW by offered (or cleared) MW.

Credit Reductions (%) for Planned Generation Capacity Resources and Planned External Generation Capacity Resources	
Credit Milestones Certified by an Independent Engineer (where applicable)	**Incremental Credit Reduction from Initial Credit Requirements**
Effective date of fully executed GIA for Planned Generation Capacity Resources or agreement equivalent to GIA for Planned External Generation Capacity Resources	50%
Financial Close	15%
Full Notice to Proceed and Commencement of construction (e.g. footers or foundation poured)	5%
Main power generating equipment delivered	5%
Commencement of Interconnection Service	25%

The following definitions apply to the terms in the tables above:

- "Effective Date of fully executed GIA" shall be as defined in the relevant GIA.
- "Full Notice to Proceed" means that all material third party contractors have been given the notice to proceed with construction by the Capacity Market Seller or its agent, with a guaranteed completion date backed by liquidated damages.
- "Commencement of construction" means the beginning of major construction of the customer facility or customer interconnection facility.
- "Main power generating equipment delivered" means the main power generating equipment has been delivered to the site.
- "Financial Close" shall mean the resource demonstrated, as supported by a sworn, notarized certification of an independent engineer, certifying that the engineer has personal knowledge, or has engaged in a diligent inquiry to determine, that the Capacity Market Seller or its agent has completed the act of executing the material contracts and/or other documents necessary to (1) authorize construction of the project and (2) establish the necessary funding for the project under the control of an independent third-party entity. For resources that do not have external financing, PJM may accept instead a sworn, notarized certification by an officer of the company that the project has full funding available, specifying that the project has been duly authorized to proceed with full construction by the appropriate governing body of the company.
- All milestones refer to activities materially related to the delivery of electricity or electric services related to the resource's commitment in the RPM auction.

Example: A Planned Generation Capacity Resource that has committed 10 MW in a Base Residual Auction with an Auction Credit Rate of 36,500/MW-year would have an initial RPM credit requirement of $365,000. After the effective date of an executed GIA, the RPM credit requirement would be $182,500 (50% reduction). After Financial Close the credit requirement would be reduced to $127,750 (65% reduced). Once the Full notice to proceed and Commencement of construction milestone is met then the credit requirement would be $109,500 (70% reduced). Once the Main Power Generating Equipment Delivered milestone is met, the RPM credit requirement would be $91,250 (75% reduced). Upon Commencement of Interconnection Service, the credit requirement would be zero.

4.9 Aggregate Resources

Capacity resources which may not, alone, meet the operational requirements of a Capacity Performance product, may combine their capabilities and offer as a single, pseudo aggregate resource[17]. Capacity Market Sellers that own one or more Intermittent Resources, Capacity Storage Resources, Demand Resources, Energy Efficiency Resources, or environmentally limited resources may create and offer an Aggregate Resource located in the smallest modeled LDA common to the underlying aggregated resources for a PJM approved unforced capacity value that satisfies the requirements of a Capacity Performance product.

The following business rules apply to Aggregate Resources:

- Intermittent Resources, Capacity Storage Resources, Demand Resources, Energy Efficiency Resources, and environmentally limited resources that are combined to form an Aggregate Resource will be considered to be located in the smallest modeled LDA common to the underlying aggregated resources[18] and must reside in a single Capacity Market Seller account in Capacity Exchange.
- Market Sellers that intend to create an Aggregate Resource must submit a written email request to rpm_hotline@pjm.com at least two weeks prior to the opening of the RPM Auction in order to allow adequate time for PJM to review such request and model an Aggregate Resource in the Capacity Exchange system.
- Aggregate Resource requests must specify the capacity resources that are being combined to form the Aggregate Resource, the installed capacity owned on each

17 OATT Attachment DD, Section 5.6.2(h)

18 For example, if one resource is located in EMAAC and the other resource is located in Rest of RTO, the Aggregate Resource will be modeled and compensated in Rest of RTO and compensated at Rest of RTO clearing price. If one resource is located in EMAAC and the other is located in SWMAAC, the Aggregate Resource will be modeled and compensated in MAAC. If one resource is located in COMED and the other resource is located in EMAAC, the Aggregate Resource will be modeled and compensated in Rest of RTO.

generation capacity resource, the Nominated DR Value for a Demand Resource, or Nominated EE Value for an EE Resource, and the requested unforced capacity value of the Aggregate Resource. The request must also include an initial seasonal allocation of the Annual Capacity Performance capability of the Aggregate Resource to the underlying resources.

- Aggregate Resource requests must also include a written explanation, including supporting data, to justify how the Aggregate Resource realize a higher level of Annual Capacity Performance capability (in unforced MWs) than the individual resources could provide if offered separately into the RPM Auction.
- The unforced capacity value of the Aggregate Resource may not exceed the sum of the unforced capacity values of the individual resources that are being combined to form the Aggregate Resources.
- PJM will review the Aggregate Resource request and approve the requested unforced capacity value of the Aggregate Resource provided the unforced capacity value is based on satisfying the requirements of a Capacity Performance product.
- The Market Seller may not offer any of the capacity resources that make up the Aggregate Resource separately into the RPM Auction or use the capacity resources that make up the approved Aggregate Resource request in any bilateral capacity transaction while the Aggregate Resource is in effect. Once an Aggregate Resource is modeled for a Delivery Year and clears any amount in a Delivery Year RPM Auction, such Aggregate Resource must remain in effect for the entire Delivery Year and may not be terminated for the Delivery Year.
- An Aggregate Resource may be specified as a resource in a Locational UCAP transaction or Auction Specific MW transaction.
- An Aggregate Resource may not be specified as a resource in a unit-specific capacity transaction.
- An Aggregate Resource that includes Existing Generation Capacity Resource(s) is subject to the Must Offer requirement.
- An Aggregate Resource that includes an Existing Generation Capacity Resource is subject to mitigation and applicable market seller offer cap.
- An Aggregate Resource that includes a planned capacity resource must establish an RPM Credit Requirement prior to the RPM Auction.
- The total committed quantity of an Aggregate Resource must be allocated to its underlying capacity resources prior to the start of the Delivery Year and must be updated within the Delivery Year if the total commitment of the Aggregate Resource is revised due to replacement of all or any part of the Aggregate Resource's commitment or due to the use of available capacity on the Aggregate Resource as a replacement resource. The total committed quantity must be allocated to the individual underlying resources on a monthly basis and may be updated no later than the last day of each month for months remaining in the Delivery Year. An individual resource may not receive a daily CP commitment allocation that applies for the entire month in excess of their CIRs. The daily commitment

allocation to an underlying capacity resource will be used in the calculation of Expected Performance for such underlying capacity resource in a Performance Assessment Interval for such day.

- If an Aggregate Resource commitment is removed or reduced by a replacement transaction, the Capacity Market Seller responsible for the Aggregate Resource must reduce the allocation of commitment to the underlying resources by a commensurate amount
- If an Aggregate Resource commitment is increased by a replacement transaction, the Capacity Market Seller responsible for the Aggregate Resource must increase the allocation of commitment to the underlying resources by a commensurate amount.
- Individual resources that are part of an Aggregate Resource will be expected to respond to a Performance Assessment Interval (PAI) in the area where they are physically located and its Non-Performance Charge Rate will be based on the location of the physical resources underlying the aggregate. If one or more individual resources that are part of an Aggregate Resource are in the same area where there is a PAI, the under-/over-performance of the Aggregate Resource will be based on the total commitment and performance of all of the individual resources included in the PAI. The Non-Performance Charge Rate applicable to an under-performing Aggregate Resource is based on the rate associated with the LDA in which the under-performing underlying resources are located weighted by the under-performance MW quantity of such resources. The annual non-performance charge limit of an Aggregate Resource is based on the limit applicable to the LDA in which the Aggregate Resource was modeled in the RPM Auction.
- The location of replacement capacity specified for an Aggregate Resource must be in accordance with the Replacement Capacity transaction business rules in Section 8.8 of this manual.

4.10 Seasonal Capacity Performance Resources

Capacity Market Sellers may offer Seasonal Capacity Performance Resources into RPM Auctions. A Seasonal Capacity Performance Resource is a Summer-Period Capacity Performance or Winter-Period Capacity Performance Resource, as described below.

A Summer-Period Capacity Performance Resource may include the following types of Capacity Resources that are eligible to submit a sell offer as a Summer-Period Capacity Resource: Summer-Period Demand Resource, Summer-Period Energy Efficiency Resource, Capacity Storage Resource, Intermittent Resources, or Environmentally-Limited Resource that has an average expected energy output during the summer peak-hour periods consistently and measurable greater than its average expected energy output during winter peak hour periods

Summer-Period Demand Resource is a resource that is placed under the direction of the PJM and will be available June through October and the following May of the Delivery Year, and will be available for an unlimited number of interruptions during such months by PJM, and will be

capable of maintaining each such interruption between hours of 10:00 AM to 10:00 PM Eastern Prevailing Time. The Summer-Period Demand Resource must be available June through October and the following May in the corresponding Delivery Year to be offered for sale in an RPM Auction, or included as Summer-Period Demand Resource in an FRR Capacity Plan for the corresponding Delivery Year.

A Summer-Period Energy Efficiency Resource is a project, including the installation of more efficient devices or equipment or implementation of more efficient process or systems, meeting the requirements of Schedule 6 of the Reliability Agreement and exceeding then-current codes, appliance standards, or other relevant standards, designed to achieve continuous reduction in electric energy consumption at end use customer's retail site during the summer peak periods (i.e., the defined EE Performance Hours in Section 4.4 of this manual) that is not reflected in the peak load forecast used for the Auction Delivery Year for which the Summer-Period EE Resource is proposed, and that is fully implemented at all times during such Delivery Year, without any requirement of notice, dispatch, or operator intervention.

To the extent that a Summer-Period Capacity Resource clears in an RPM Auction or is otherwise committed as a Summer-Period Capacity Performance Resource, such resource is obligated to deliver energy as scheduled and/or dispatched by PJM during Performance Assessment Intervals occurring during the calendar months of June through October and the following May of the Delivery Year, and must satisfy the requirements of a Capacity Performance Resource for such period of time. A committed Summer-Period Capacity Performance Resource will be subject to the relevant resource performance assessments for capacity performance commitments and the associated deficiency/penalty charges for such period of time.

A Summer-Period Capacity Performance Resource that clears in an RPM Auction will only receive a Daily RPM Auction Credit for the MWs cleared in such auction for the summer period of June through October and May of the Delivery Year.

A Winter-Period Capacity Performance Resource may include the following types of Capacity Resources that are eligible to submit a sell offer as a Winter-Period Capacity Performance Resource: Capacity Storage Resource, Intermittent Resource, and Environmentally-Limited Resource that has an average expected energy output during winter peak-hour periods consistently and measurably greater than its average expected energy output during summer peak hour periods.

By August 31 of each calendar year, PJM shall solicit requests from generation owners of Intermittent Resources and Environmentally Limited Resources which seek to obtain additional Capacity Injection Rights (CIRs) related to the winter period (November through April of a Delivery Year) for the purposes of creating a Winter-Period Capacity Performance Resource or an Aggregate Resource as described in Section 4.9. Such additional CIRs would be for a one year period as specified by PJM in the solicitation. Responses to such solicitation must be submitted by interested owners by October 31 prior to the upcoming Base Residual Auction.

Such requests shall be studied for deliverability similar to any Generation Project Developer seeking to enter the New Service Request study process; however, such requests shall not be required to enter the New Service Request study process. PJM shall study such requests in a manner so as to prevent infringement on available system capabilities on any resource which is already in service, or which has an executed Generation Interconnection Agreement, Transmission Service Agreement, Upgrade Construction Agreement, or has submitted a valid New Service Request. If the Intermittent Resource or Environmentally Limited Resource is accredited as deliverable for additional CIRs for the winter period, such generation owner shall receive the additional CIRs for the winter period of the relevant Delivery Year.

To the extent a Winter-Period Capacity Performance Resource clears an RPM Auction or is otherwise committed as a Winter-Period Capacity Performance Resource, such resource is obligated to delivery energy as scheduled and/or dispatched by PJM during Performance Assessment Intervals occurring in the calendar months of November through April of the Delivery Year, and must satisfy the requirements of a Capacity Performance Resource for such period of time. A committed Winter-Period Capacity Performance Resource will be subject to the relevant resource performance assessments for capacity performance commitments and the associated deficiency/penalty charges for such period of time.

A Winter Period-Capacity Performance Resource that clears in an RPM Auction will only receive a Daily RPM Auction Credit for the MWs cleared in such auction for the winter period of November through April of the Delivery Year.

A Capacity Market Seller that clears a Seasonal Capacity Resource in an RPM Auction will receive a Resource Clearing Price that is applicable to the Capacity Market Seller's Seasonal Capacity Performance sell offer and is reflective of the Locational Price Adder determined as a result of the seasonal matching process in the post-processing of the auction results as described in Section 5.7.2 and 5.8.5 and any make-whole price, if a make-whole payment is required, for such cleared sell offer.

Section 5: RPM Auctions

Welcome to the RPM Auctions section of the **PJM Manual for the Reliability Pricing Model**. In this section, you will find the following information:

- An overview description of the RPM Auctions (see "Overview of the RPM Auctions")
- The auction timeline for RPM Auctions (see "RPM Auction Timeline")
- The auction parameters for the RPM Auctions (see "RPM Auction Parameters")
- The business rules for sell offers in RPM (see "Sell Offers in RPM")
- The business rules for buy bids in RPM (see "Buy Bids in RPM")
- The requirements to offer in the PJM Energy Market (see "Energy Market Offer Requirements")
- The business rules for the Base Residual Auction (see "Base Residual Auction")
- The business rules for the Incremental Auctions (see "Incremental Auctions")
- The business rules for the auction clearing results (see "Auction Clearing Results")
- An overview description of the reliability backstop mechanism (see "Reliability Backstop")

5.1 Overview of RPM Auctions

The Reliability Pricing Model (RPM) is a multi-auction structure designed to procure resource commitments to satisfy the region's unforced capacity obligation through the following market mechanisms: a Base Residual Auction, Incremental Auctions and a Bilateral Market.

- Base Residual Auction – The Base Residual Auction is held during the month of May three (3) years prior to the start of the Delivery Year. Notwithstanding, the Base Residual Auction for the 2025/2026 through 2029/2030 Delivery years shall be conducted in accordance with the RPM Auction Schedule posted on the PJM website. Base Residual Auction (BRA) allows for the procurement of resource commitments to satisfy the region's unforced capacity obligation and allocates the cost of those commitments among the Load Serving Entities (LSEs) through a Locational Reliability Charge.
- Incremental Auctions – Up to three Incremental Auctions are conducted after the Base Residual Auction to procure additional resource commitments needed to satisfy potential changes in market dynamics that are known prior to the beginning of the Delivery Year.
- The First, Second, and Third Incremental Auctions are conducted to allow for replacement resource procurement, increases and decreases in resource commitments due to reliability requirement adjustments.
- A Conditional Incremental Auction may be conducted if a Backbone transmission line is delayed and results in the need for PJM to procure additional capacity in a Locational Deliverability Area to address the corresponding reliability problem.

- The Bilateral Market – The bilateral market provides resource providers an opportunity to cover any auction commitment shortages. The bilateral market also provides LSEs the opportunity to hedge against the Locational Reliability Charge determined as a result of the RPM Auction process. The bilateral market is facilitated through the Capacity Exchange system.

5.2 RPM Auction Timeline

The following Auction timeline provides the deadline for key RPM activities[19]:

RPM Activity	Deadline
Submittal of binding notice of intent to offer Planned Generation Capacity Resource into Base Residual Auction (effective with 2025/ 2026 Delivery Year)	December 1st immediately preceding Base Residual Auction (except for 2025/2026, 2026/2027 and 2028/ 2029 Delivery Year); December 12th 2023 (for 2025/2026 Delivery Year); 180 days prior to commencement of offer period (2026/2027 and 2028/ 2029 Delivery Year)
Post Planning Parameters for BRA	Posting deadline provided in RPM Auction Schedule on PJM website
Post preliminary estimate of the MOPR Floor Offer Price for the relevant Delivery year	150 days prior to commencement of offer period
Data Submittal (Avoidable Cost Data, Opportunity Cost, & Projected Market Revenues) to IMM if submitting non-zero sell offer price	120 days prior to commencement of offer period
IMM to notify Capacity Market Sellers of Market Seller Offer Caps	90 days prior to commencement of offer period
Participant notification to PJM and IMM whether it has reached agreement with the IMM on the level of Market Seller Offer Cap	80 days prior to commencement of offer period
PJM to notify Capacity Market Seller of its determination on Market Seller Offer Cap	65 days prior to commencement of offer period

[19] For delivery years where FERC has approved a compressed auction schedule, the actual deadline may be different from the deadline listed in this activity table. Participants should adhere to the activity deadlines on the RPM Auction Schedule posted on the pjm website.

RPM Activity	Deadline
Submittal of Minimum Offer Price Rule (MOPR) exemption request (Unit-Specific)	120 days prior to commencement of offer period
IMM to notify Capacity Market Seller of determination on MOPR exemption request	90 prior to commencement of offer period
PJM to notify Capacity Market Seller of determination on MOPR exemption request	65 days prior to the commencement of offer period
Submittal of minimum level of Sell Offer commitment consistent with Unit-Specific MOPR request	5 days after receipt of PJM determination on Unit-Specific MOPR request
Submittal of preliminary request to remove a resource from Capacity Resource status and preliminary must-offer exemption request for BRA for the reason specified under OATT Attachment M-Appendix § II.C.4.A	Sept 1st immediately preceding BRA for applicable Delivery Year
Submittal of final request to remove a resource from Capacity Resource status and final must-offer exemption request for BRA for the reason specified under OATT Attachment M-Appendix § II.C.4.A	Dec 1st immediately preceding BRA for applicable Delivery Year
Submittal of preliminary request to remove resource from Capacity Resource status and preliminary must-offer exemption request for IA for the reason specified under OATT Attachment M-Appendix § II.C.4.A	240 days prior to commencement of offer period
Submittal of final request to remove a resource from Capacity Resource status and final must-offer exemption request for IA for the reason specified under OATT Attachment M-Appendix § II.C.4.A	120 days prior to commencement of offer period
Submittal of must-offer exemption request for any reason other than the reason specified under OATT Attachment M-Appendix § II.C.4.A	120 days prior to commencement of offer period
PJM posts summaries of MW of Generation for which it has received requests to remove a resource from Capacity Resource status, and	No later than 5 Business Days after the request/notification deadline

RPM Activity	Deadline
for exceptions to the must-offer requirement for the reason specified under OATT Attachment M-Appendix § II.C.4.A, on an aggregate basis by Zone and LDA that comprises a subset of a Zone. Postings shall specify the following aggregate ranges: less than 100 MW; 100 to 500 MW; 500 to 1000 MW; and specific MW total if over 1000 MW	
IMM to notify Capacity Market Seller of determination on must-offer exemption request and removal of Capacity Resource status	90 days prior to commencement of offer period
Participant notification to PJM and the MM if it disagrees with the IMM determination of its request to remove a resource from Capacity Resource status or must-offer exception request	80 days prior to commencement of offer period
PJM notification to participant of its determination on must offer exemption request and removal of Capacity Resource status	65 days prior to commencement of offer period
Participant notification to PJM and the IMM whether it intends to exclude from its Sell Offer some or all capacity from its generation resource on the basis of an identified exception to the RPM Must Offer Obligation	65 days prior to commencement of offer period
Submittal of request for alternative maximum EFORd (prior to 2025/2026 Delivery Year)	120 days prior to commencement of offer period
IMM provides determination on request for alternative maximum EFORd (prior to 2025/2026 Delivery Year)	90 days prior to commencement of offer period
Participant notification to PJM and the IMM whether agreement has been reached on alternative maximum EFORd (prior to 2025/2026 Delivery Year).	80 days prior to commencement of offer period
PJM notification to participant of its determination on alternative maximum EFORd (if no agreement reached with IMM) (prior to 2025/2026 Delivery Year).	65 days prior to commencement of offer period

RPM Activity	Deadline
Preliminary ELCC Class Ratings and Accredited UCAP Factors	Posting deadline provided in RPM Auction Schedule on PJM website
Participant submits to PJM its Initial/Updated Energy Efficiency Resource Measurement & Verification Plan	30 days prior to commencement of the offer period
Participant submits to PJM its Energy Efficiency Resource Measurement & Verification Report	15 business days prior to start of Delivery Year for which the resource is committed
Participant submits to PJM its Demand Response Resource Plan	30 days prior to commencement of offer period
Base Residual Auction	May, 3 years prior to the Delivery Year
Submittal of binding notice of intent to offer Planned Generation Capacity Resource into Incremental Auction	90 days prior to commencement of offer period
Post Updated Planning Parameters for First Incremental Auction	1 Month prior to First Incremental Auction
First Incremental Auction	September, 20 months prior to the Delivery Year
Post Updated Planning Parameters for Second Incremental Auction	1 Month prior to Second Incremental Auction
Second Incremental Auction	July, 10 months prior to the Delivery Year
Final EFORd fixed for Delivery Year (prior to 2025/2026 Delivery Year)	By November 30th prior to the Delivery Year
Final Accredited UCAP Factor for Delivery Year (effective with 2025/2026 Delivery Year)	No later than 5 months prior to the start of the Delivery Year
Post Final Planning Parameters for Third Incremental Auction	1 Month prior to Third Incremental Auction
Third Incremental Auction	February, 3 months prior to the Delivery Year

RPM Activity	Deadline
Conditional Incremental Auction	As Needed

Exhibit 2: RPM Auction Timeline

5.3 RPM Auction Parameters

The following information shall be posted by PJM for each Base Residual Auction with the BRA Planning Parameters in accordance with the posting deadline provided on the RPM Auction Schedule on the PJM website:

- Preliminary RTO and Zonal Peak Load Forecasts
- LDAs modeled in the Base Residual Auction
- Installed Reserve Margin (IRM)
- Pool-wide Average EFORd (prior to 2025/2026 Delivery Year) and Pool-wide average Accredited UCAP Factor (beginning 2025/2026 Delivery Year)
- Forecast Pool Requirement (FPR)
- Reliability Requirements of the PJM Region and each modeled LDA
- Variable Resource Requirement (VRR) Curves of the PJM Region and each modeled LDA without FRR Entity adjustments. Adjusted VRR Curves with FRR Entity adjustments will be posted after FRR Capacity Plans are approved.
- CETO and CETL values for each modeled LDA
- Transmission Upgrades projected to be in service for the Delivery Year
- Bidding window schedule for the Base Residual Auction
- Cost of New Entry (CONE) for the PJM Region and each modeled LDA
- Net Energy and Ancillary Services Revenue Offset of the PJM Region and each modeled LDA
- Net Cost of New Entry (Net CONE) for the PJM Region and each modeled LDA
- Auction Credit Rate
- The amount(s) of unforced capacity to be procured by PJM and the buy bid price(s) due to increase in Reliability Requirement or the amount(s) to be released from the commitment and the sell offer price(s) due to a reduction in Reliability Requirement will be posted one month prior to the First, Second, or Third Incremental Auctions. The changes in the CETL values and the amount of unforced capacity to be procured for each LDA will be posted one month prior to an Incremental Auction.

5.4 Sell Offers in RPM

5.4.1 Resource-Specific Sell Offer Requirements

Sell Offers for the Base Residual and Incremental Auctions must be submitted in PJM's Capacity Exchange system. Sell offers are only accepted during a fixed bidding window which is open for at least five (5) business days. The bidding window for a Base Residual Auction and Incremental Auctions will be posted on the PJM website. Sell offers may not be changed or withdrawn after the bidding window for a Base Residual Auction or Incremental Auction is closed.

The following are business rules that apply to Resource-Specific Sell Offers:

- The smallest increment that may be offered into any auction is 0.1 MW
- A resource-specific sell offer will specify, as appropriate:
  - Specific Generating Unit, Demand Resource, Energy Efficiency Resource, or Aggregate Resource
  - Each Existing Generation Capacity Resource with available capacity that is capable or can reasonably become capable of qualifying as a Capacity Performance Resource must submit a Capacity Performance sell offer segment.
    - ELCC Resources that are Generation Capacity Resources may not offer or otherwise provide UCAP MW quantities above the greater of their Capacity Interconnection Rights, or the transitional system capability as limited by the transitional resource MW ceiling for the applicable Delivery Year, please see **Manual 14B: Regional Transmission Planning Process**. Notwithstanding, external resources may offer up to their Accredited UCAP.
    - Notwithstanding the above, ELCC Resources may not offer or otherwise provide UCAP MW quantities above their Accredited UCAP.
  - Exceptions to the capacity performance must-offer requirement will be permitted for a generation capacity resource which the Capacity Market Seller demonstrates is reasonably expected to be physically incapable of satisfying the requirements for a Capacity Performance Generation Resource by the start of the Delivery Year, the resource has a financially and physically firm commitment to an external sale of its capacity, or the resource is seeking to remove Capacity Resource status in accordance with Section 5.4.7 of this manual. The Seller must submit a request for an exception (with all supporting information) no later than 120 days before the offer window opens for the relevant RPM Auction. Nothing herein provides a defense to a claim of withholding, market manipulation, or the exercise of market power by any entity who is affiliated with or are under common ownership or control of a Capacity Market Seller that does not submit an offer into the capacity market.
    - Capacity Market Sellers seeking an exception for a BRA on the basis that the resource is incapable of meeting the Capacity Performance Resource requirements shall include a documented plan with the submission of their

exception request showing the steps the Capacity Market Seller intends to pursue for the resource to become physically capable of satisfying the requirements of a Capacity Performance Resource, and provide periodic updates on the progress of such plan in accordance with Tariff, Attachment DD, section 6.6A(c).

- Capacity Market Sellers may specify multiple auctions in a written must-offer exception request (with all supporting documentation) to be reviewed by the IMM and PJM with each applicable auction. Capacity Market Sellers must notify PJM and the IMM of any material changes related to the request up through the closing of the relevant auction(s) offer window.
  - When multiple auctions are specified in the written request, Capacity Market Sellers should continue to create a new request in the IMM's online system (MIRA) for each relevant subsequent auction and confirm that the documentation represents the best, current information.

- An Existing Generation Capacity Resource that can qualify as Capacity Performance product type, but requires substantial investment to do so, is not excused from the capacity performance must-offer requirement; however,
- Demand Resources are not required to submit a Capacity Performance sell offer segment.
- Minimum and maximum amount of installed capacity offered in MWs for the resource by Capacity Performance (annual) Offer Segment and Maximum amount of installed capacity offered in a Seasonal (summer or winter) Capacity Performance Offer Segment. The Seasonal Capacity Performance Offer Segment is considered a flexible offer segment with a minimum MW quantity set to zero MW.
- Offer Segment price willing to receive in $/MW-day (in UCAP terms)
- Regular Schedule, Self-Schedule or Flexible Self-Schedule flag
- New Unit Pricing participation flag for Planned Generation Capacity Resources requesting New Unit Pricing Adjustment.
- The ICAP MW quantity specified in the Offer Segment will be converted into an UCAP MW quantity for use in the auction clearing by multiplying the ICAP MW quantity specified by the applicable Accredited UCAP Factor for a Generation Capacity Resource, by the applicable ELCC Class rating for a Demand Resource, and by the Forecast Pool Requirement for an EE Resource. The sell offer price specified in the Offer Segment is in UCAP terms and will not be converted for use in the auction clearing.
- A Capacity Performance (annual), or Seasonal Capacity Performance Offer Segment may be offered as either a single price quantity for the capacity of the resource or divided into up to ten offer blocks with varying price-quantity pairs that represent various segments of capacity from the resource. The Offer Segment will consist of block segments at the specified price-quantity pairs.

- The auction specific Accredited UCAP Factor will be determined by PJM. The seller is willing to accept the clearing of any amount equal to or greater than the minimum MW amount offered and equal to or less than the maximum MW offered.
- If the self-scheduled flag is enabled in the Capacity Performance Offer segment, the sell offer price must be set to zero and the minimum and maximum amounts specified in the sell offer must be equal.
- The acceptance of the sell offer is based on the party's Current Available ICAP Position for the Delivery Year at the opening of the auction's bidding window. The acceptance of the sell offer is based on the party's Current Available ICAP Position for the entire Delivery Year (annual position) if Capacity Performance Resource, Current Available ICAP Position for summer period (summer position) if Summer-Period Capacity Performance Resource, Current Available ICAP Position for winter period (winter position) if Winter-Period Capacity Performance Resource.
- The total MWs offered across all Capacity Performance offer segments may not exceed the Current Available ICAP Position for the Delivery Year (i.e., the annual position). The total MWs offered across the Capacity Performance offer segments and the Seasonal Capacity Performance-Summer offer segments may not exceed the Current Available ICAP Position for summer period (i.e., the summer position). The total MWs offered across the Capacity Performance offer segments and the Seasonal Capacity Performance-Winter offer segments may not exceed the Current Available ICAP Position for winter period (i.e., the winter position).
- If a participant has a zero or negative Current Available ICAP Position, PJM will reject the sell offer.
- A sell offer in an RPM Auction that violates any "Conditions on Sales by FRR Entities" as presented in the FRR Business Rules will be rejected.
- For Planned Resources and external resources without firm transmission, sell offers for which the RPM Credit Requirement exceeds the credit available will be rejected.
- A Capacity Market Seller submitting a sell offer for an existing Generation Capacity Resource greater than $0/MW-Day must seek a unit-specific exception request for such sell offer by submitting Avoidable Cost Rate data to IMM and PJM 120 days prior to the RPM Auction, or may, at its election, utilize an offer cap based on the default gross Avoidable Cost Rate of the applicable resource type, if available. For any Third Incremental Auction, a Capacity Market Seller submitting a sell offer for an existing Generation Capacity Resource may elect to use a default offer cap equal to 1.1 times the Resource Clearing Price in the Base Residual Auction of the relevant LDA and Delivery Year.
- All sell offers for a supplier that fails the Three-Pivotal Supplier Test will be capped within the mitigated LDA.
- Cleared MWs and make-whole MWs for Capacity Performance Offer Segments are binding commitments to provide capacity for the entire Delivery Year. Cleared MWs for Seasonal Capacity Performance-Summer Offer Segments are binding commitments to

provide capacity for the summer period of June through October and May of the Delivery Year. Cleared MWs for Seasonal Capacity Performance-Winter Offer Segments are binding commitments to provide capacity for the winter period of November through April of the Delivery Year.

5.4.2 Flexible Self Scheduling

An LSE may specify offer segments as flexible self-scheduled in the Base Residual Auction to provide a mechanism to manage the quantity uncertainty related to the Variable Resource Requirement.

To specify a segment as a flexible self-scheduled segment, an LSE must specify the following:

- For each such segment, "flexible self-scheduled" must be selected as the offer type of the segment.
- A flexible self-schedule sell offer must specify an offer price that will be utilized in the market clearing in the event that the resource is not needed to cover the calculated capacity obligation. This is in addition to the data required of a self-schedule resource specific sell offer.
- In conjunction with an offer of a flexible self-schedule segment, the LSE must also submit through Capacity Exchange a percentage of the Preliminary Zonal Peak Load Forecast in each transmission zone the LSE wishes to cover with self-scheduled and flexible self-scheduled resources. This percentage of the peak load forecast will be used to calculate the LSE's resulting capacity obligation through the auction clearing process that considers the Variable Resource Requirement.

If the same LSE offers both self-scheduled and flexible self-schedule segments to serve an Unforced Capacity Obligation within the same LDA, those segments that are self-scheduled will be used first to meet the obligation. The flexible self-scheduled segments will be automatically cleared in the auction if they are needed to supply the LSEs resulting capacity obligation. In the event that the LSE does not need all of the segments that were specified as flexible self-scheduled to meet its resulting capacity obligation, the RPM clearing function will consider the excess as offered into the market at the price specified with the flexible self-scheduled segment. The segments that are considered excess for this LSE will be those that have the highest specified offer prices.

5.4.3 New Entry Pricing Adjustment

New Entry Pricing Adjustment[20] is an incentive provided to Planned Generation Resources where the size of the new entry is significant relative to the size of the LDA and there is a potential for the clearing price to drop when all offer prices including that of the new entry are

20 OATT, Attachment DD, Section 5.14(c)

capped. New Entry Pricing Adjustment allows Planned Generation Capacity Resources to recover the amount of their cost of entry-based offer for up to two additional consecutive years under certain conditions.

New Entry Pricing Adjustment is applicable under the following conditions:

1. The new entry must select the New Entry Pricing Adjustment option at the time the sell offer into the initial BRA (Delivery Year 1 BRA) is submitted.
2. The capacity cleared from the new entry (including any make-whole MW) in the Delivery Year 1 BRA would move the total LDA resources committed in the BRA from below the LDA Reliability Requirement to a MW quantity at or above the MW quantity at the price-quantity point on the VRR Curve where the price is 40% of the Net CONE divided by the quantity one minus pool-wide average EFORd through the 2024/2025 Delivery Year, and beginning with the 2025/2026 Delivery Year, divided by the applicable ELCC Class Rating for the Reference Resource.
3. The seller submits offers into the two immediately following BRAs (Delivery Year 2 BRA and Delivery Year 3 BRA) to sell the entire capacity of the unit committed in the Delivery Year 1 BRA at a price equal to the lesser of (a) the price offered in the Delivery Year 1 BRA where the resource was classified as planned generation; or (b) 90% of the Net CONE applicable in the Delivery Year 1 BRA in UCAP basis.
4. Failure to submit a sell offer consistent with condition (3) above in the Delivery Year 3 BRA shall not retroactively revoke the New Entry Price Adjustment for Delivery Year 2. However, the failure to submit a sell offer consistent with condition (3) in the Delivery Year 2 BRA shall make the resource ineligible for New Entry Price Adjustment for Delivery Years 2 and 3.

New entry revenues:

1. If the new entry meets conditions (1) and (2) above and is the marginal offer in Delivery Year 1 BRA, it sets the resource clearing price for the LDA in Delivery Year 1 BRA and receives revenues based on this price in the Delivery Year 1 BRA.
2. If the new entry clears its capacity in either of the two subsequent BRAs (Delivery Year 2 BRA or Delivery Year 3 BRA), it will receive revenues based on the LDA clearing price in such subsequent year BRA.

3. If the new entry does not clear in either of the two subsequent year BRAs (Delivery Year 2 BRA or Delivery Year 3 BRA), it will be resubmitted at the highest offer price at which the unforced MW amount cleared in the Delivery Year 1 BRA will clear in the subsequent year BRA (Delivery Year 2 BRA or Delivery Year 3 BRA). The resource clearing price and the resources cleared for such subsequent year BRA will be determined from the clearing with the resubmitted sell offer. The new entry shall clear in such subsequent year BRA and be committed in the amount cleared plus any additional make-whole MW from its Sell Offer for such subsequent year BRA, but such make-whole MWs shall not be greater than the make-whole MWs committed in the Delivery Year 1 BRA. The new entry will receive revenues for the entire committed quantity in such subsequent year BRA based on the sell offer price initially submitted for such subsequent year BRA. The difference between the initially submitted sell offer price and the clearing price in such subsequent year BRA and any difference between cleared quantity and committed quantity in such subsequent year BRA will be paid as Resource Make-Whole payments to the new entry. The other capacity resources that clear such subsequent year BRA will receive the clearing price for such subsequent year BRA.

A Capacity Market Seller may make its Sell Offer in the initial BRA (Delivery Year 1 BRA) contingent upon qualifying for New Entry Price Adjustment. Prior to the close of the BRA offer window, a Capacity Market Seller must notify PJM of a NEPA contingent Sell Offer election via an email to rpm_hotline@pjm.com. PJM shall not clear a NEPA contingent Sell Offer if it does not qualify for the New Entry Price Adjustment.

While the New Entry Pricing Adjustment is effective, the LDA in which the New Entry was cleared will be modeled as an LDA in Years 2 and 3 regardless of the amount of LDA Capacity Emergency Transfer Limit margin over Capacity Emergency Transfer Objective in the PJM RTEP Process. After the New Entry Pricing Adjustment period, the LDA will be maintained only if deemed necessary in the PJM RTEP Process.

Market Monitor's existing authority and review responsibilities shall include "New Entry Pricing." Market Monitor shall analyze and report on "New Entry Pricing" in the State of the Market Report.

5.4.4 Sell Offer Caps

Submission of the Avoidable Cost Rate (ACR) Data

120 days prior to the commencement of the offer period for an RPM Auction, participants must submit the data specified in ***Section 6.7 of Attachment DD of the Open Access Transmission Tariff*** in order to submit a non-zero Sell Offer in the Auction.

Capacity resource owners must supply PJM with their avoidable cost data through the IMM's Member Information Reporting Application ("MIRA").

The avoidable cost calculation is based on the categories of cost that are specified in ***Section 6.8 of Attachment DD of the Open Access Transmission Tariff***. The calculation should be based on the annual costs that would be avoidable assuming the unit would otherwise retire.

Where multiple units exist at a single plant, the plant's total avoidable costs shall be allocated to each individual unit in an appropriate manner. The sum of such costs assigned to each unit shall equal the total plant costs.

The avoidable cost data should be for the 12 months preceding the month in which the data must be provided.

For units that are jointly-owned, only one owner, typically the operator is expected to provide avoidable cost data and Projected PJM Market Revenues for the unit.

All joint-owners of a unit can input their own bilateral revenues/costs, opportunity costs and transition adder.

If a unit is not expected to be operational during the Delivery Year, no avoidable cost and opportunity cost data are required, but notice of status is required.

Calculation of Sell Offer Caps

Sell offer caps shall be calculated as specified in ***Section 6.4 of Attachment DD of the Open Access Transmission Tariff.***

A unit must submit unit-specific ACR data, specify an opportunity cost, or use the default rate, in order to submit a sell offer greater than zero.

Projected PJM Market Revenues for any Generation Capacity Resource to which the Avoidable Cost Rate is applied shall include all actual unit-specific revenues from PJM energy markets, ancillary services, and unit-specific bilateral contracts from such Generation Capacity Resource, net of energy and ancillary services market offers for such resource. The calculation of Projected PJM Market Revenues shall be equal to the rolling simple average of such net revenues from the three most recent whole calendar years prior to the year in which the BRA is conducted as described in ***Section 6.8(d) of Attachment DD of the Open Access Transmission Tariff.***

Sell Offer Cap(s) will be calculated for each Market Participant, by unit, by segment.

90 days prior to the commencement of the offer period, the IMM shall calculate and notify the Capacity Market Seller of their Sell Offer Cap consistent with ***Section 6 of Attachment DD of the Open Access Transmission Tariff***.

Planned Generation Resources may be mitigated in accordance with OATT, Attachment DD, Section 6.5.

No offer caps are applied to sell offers of Demand Resources or Planned Energy Efficiency Resources.

5.4.5 Deleted

5.4.6 Qualified Transmission Upgrade Sell Offer Requirements

A Qualifying Transmission Upgrade sell offer will specify, as appropriate:

- Increase in CETL provided by the upgrade (maximum MW, as certified by PJM Transmission Planning Department)
- Minimum MW offered (min = max for upgrades that involve a single equipment upgrade, min could be less than max where participant is proposing multiple upgrades or upgrades to several pieces of equipment)
- Source and sink LDAs associated with the upgrade
- Price willing to receive for each segment in $/MW-day specified as the price difference between the sink LDA price and the source LDA price

The increase in CETL provided by a Qualifying Transmission Upgrade must be certified by PJM at least 45 days prior to the Base Residual Auction.

Cleared sell offers and offers receiving Make-Whole payments are binding commitments to provide capacity.

5.4.7 Removal of Generation Capacity Resource Status

A Capacity Market Seller seeking to remove Capacity Resource status from a Generation Capacity Resource shall submit a preliminary and final written request to PJM and the IMM, along with supporting data and documentation, in accordance with Tariff, Attachment DD, section 6.6(g).

- Requests shall be submitted to PJM via email to the rpm_hotline@pjm.com and to the IMM through the MIRA application.
- Preliminary requests must be submitted no later than September 1 prior to a BRA, and 240 days prior to an IA. Final requests must be submitted no later than December 1 prior to a BRA, and 120 days prior to an IA.
- The preliminary request must provide the following information:
  - Identification of the Generation Capacity Resource and MW
  - The beginning Delivery Year in which the Seller is seeking to remove Capacity Resource status from the resource
  - Supporting data and documentation indicating the reasons and conditions upon which the Seller is relying in its analysis to remove Capacity Resource status from the resource

- PJM will post the preliminary and final requested MW of Capacity Resource status changes on an aggregate basis by Zone and LDA that comprises a subset of a Zone.

A request will not be accepted for a resource that holds a capacity commitment during the time period in which it seeks to no longer be a Capacity Resource.

The IMM will analyze the effects of removing Capacity Resource status with respect to potential market power concerns and notify the Seller and PJM of its determination no later than 90 days prior to the applicable RPM auction. Subsequently, PJM shall provide its final determination no later than 65 days prior to the applicable RPM auction.

PJM Planning will be notified of requests and final approvals to incorporate the loss of Capacity Resource status in the appropriate planning models and reliability studies.

Once the Capacity Resource status is removed from a Generation Capacity Resource:

- The generation unit will no longer qualify as an Existing Generation Capacity Resource, and as such, will be removed from the Capacity Resource model and no longer eligible to offer in RPM auctions or take on a capacity commitment.
- The Capacity Interconnection Rights associated with the resource shall be subject to termination in accordance with the rules described in Tariff, Part VI, section 230.3.3.
    - The relevant GIA or WMPA of a Generation Capacity Resource that is removed of its Capacity Resource status will be amended to reflect any such removal of Capacity Interconnection Rights.

5.4.8 Minimum Offer Price Rule

The Minimum Offer Price Rule (MOPR) provisions of Section 5.14(h-2) of Attachment DD of the PJM OATT are applicable to each Generation Capacity Resource that is offered into RPM Auctions for the 2023/2024 Delivery Year and all subsequent Delivery Years.

5.4.8.1 MOPR-Related Business Rules and Process Timeline

The following business rules apply to the sell offer of any Generation Capacity Resource that in an RPM Auction is subject to the MOPR of Tariff, Attachment DD, section 5.14(h-2):

- The timeline for pre-auction activities related to MOPR is specified in the table below.
- The MOPR Floor Offer Price applicable to a Generation Capacity Resource that based on the certification process described below is subject to the MOPR is dependent upon whether the resource or uprate of the resource previously cleared in an RPM auction for any Delivery Year.
- For a Generation Capacity Resource that is subject to the MOPR and for which a Sell Offer based on that resource, or any uprate of the Generation Capacity Resource, has not previously cleared an RPM Auction for any Delivery Year, the applicable New Entry MOPR Floor Offer Price, based on the net cost of new entry for the resource, shall be, at the election of the Capacity Market Seller, either (i) the unit-specific value determined in

accordance with the unit-specific exception process for MOPR Floor Offer Prices, or (ii) the default New Entry MOPR Floor Offer Price, if available, of the applicable resource type. A Capacity Market Seller must seek a unit-specific MOPR Floor Offer Price if the resource is of a type for which there is no default New Entry MOPR Floor Offer Price, including hybrid resources. Failure to obtain a unit-specific MOPR Floor Offer Price will result in the Office of the Interconnection rejecting any Sell Offer for such resource for the relevant RPM Auction.

- For a Generation Capacity Resource that is subject to the MOPR and for which a Sell Offer based on that resource has previously cleared an RPM Auction for any Delivery Year, the applicable Cleared MOPR Floor Offer Price, based on the net Avoidable Cost Rate, shall be, at the election of the Capacity Market Seller, either (i) the unit-specific value determined in accordance with the unit-specific exception process for MOPR Floor Offer Prices, or (ii) based on the default gross Avoidable Cost Rate, if available, of the applicable resource type net of projected net energy and ancillary service revenues for the resource (Net ACR). A Capacity Market Seller must seek a unit-specific MOPR Floor Offer Price if the resource is of a type for which there is no default gross Avoidable Cost Rate, including hybrid resources. Failure to obtain a unit-specific MOPR Floor Offer Price will result in the Office of the Interconnection rejecting any Sell Offer for such resource for the relevant RPM Auction.
- The MOPR Floor Offer Price of any Capacity Resource that is subject to the MOPR is expressed in terms of Unforced Capacity MW ("UCAP MW"). A resource's MOPR Floor Offer Price in $/UCAP MW-Day is applicable to each MW offered by the resource that is subject to MOPR regardless of the actual Sell Offer quantity and regardless of whether the Sell Offer is for a Seasonal Capacity Performance Resource.
- If any of the individual underlying resources of a commercially aggregated resource are subject to a MOPR Floor Offer Price, the MOPR Floor Offer Price applicable to the Sell Offer of such an aggregate resource is equal to the time and MW-weighted average of the applicable MOPR Floor Offer Prices (zero if applicable) of the individual aggregated resources.

MOPR-Related Process Timeline

Activity	Deadline
PJM posts preliminary estimate of MOPR Floor Offer Prices	No later than 150 days prior to commencement of offer period for an RPM Auction
Capacity Market Seller certifies the status of each Generation Capacity Resource it intends to offer as it relates to Conditioned State Support and Exercise of Buyer-Side Market Power	No later than 150 days prior to commencement of offer period for an RPM Auction

PJM and/or IMM notify Capacity Market Seller of fact-specific review of ability and incentive to exercise Buyer-Side Market Power	No later than 135 days prior to commencement of offer period for an RPM Auction
Capacity Market Seller submits request for a Unit Specific Exception with all required documentation simultaneously to both the IMM and PJM	No later than 120 days prior to commencement of the offer period for the RPM Auction
IMM reviews the request and provides its findings to the Capacity Market Seller and PJM of whether the proposed Sell Offer is acceptable	No later than 90 days prior to the commencement of the offer period of the RPM Auction
PJM reviews the request and provides determination to the Capacity Market Seller and the IMM of whether the proposed sell offer is acceptable and if not provides a minimum sell offer based on data and documentation	No later than 65 days prior to the commencement of the offer period of the RPM Auction
Capacity Market Seller notifies PJM and IMM of minimum level of Sell Offer to which it agrees to commit	No later than 60 days prior to the commencement of the offer period of the RPM Auction

5.4.8.2 Certification Requirement

By no later than 150 days prior to the commencement of the offer period of any RPM Auction conducted for the 2024/2025 Delivery Year and all subsequent Delivery Years, and by the date posted on the PJM website for the 2023/2024 Delivery Year, each Capacity Market Seller must certify for each Generation Capacity Resource the Capacity Market Seller intends to offer into the RPM Auction: (i) whether or not the Generation Capacity Resource is receiving or expected to receive Conditioned State Support under any legislative or other governmental policy or program that has been enacted or effective at the time of the certification, and (ii) whether or not the Capacity Market Seller acknowledges and understands that the Exercise of Buyer-Side Market Power is not permitted in RPM Auctions, and does not intend to submit a Sell Offer for their Generation Capacity Resource as an Exercise of Buyer-Side Market Power.

All Capacity Market Sellers are responsible for the timeliness and accuracy of each certification which is undertaken through PJM's Capacity Exchange system. Any Generation Capacity Resource for which a Capacity Market Seller has not timely submitted the certifications shall be subject to the provisions of the Minimum Offer Price Rule. Notwithstanding the foregoing, if a Capacity Market Seller submits a timely unit-specific exception for the relevant Delivery Year,

and PJM approves the unit-specific MOPR Floor Offer Price, then the Capacity Market Seller may use such floor price regardless of whether it timely submitted the foregoing certifications.

Once a Capacity Market Seller has certified whether or not a Generation Capacity Resource is receiving or expected to receive Conditioned State Support, the status of such Capacity Resource will remain unchanged unless and until the Capacity Market Seller (or a subsequent Capacity Market Seller) that owns or controls such Capacity Resource provides a certification of a change in such status, the Office of the Interconnection removes such status, or by FERC order. All Capacity Market Sellers have an ongoing obligation to certify to PJM and the IMM a Generation Capacity Resource's material change in status regarding whether such resource is receiving or expected to receive Conditioned State Support within 30 days of such material change.

A Capacity Market Seller must certify for each Generation Capacity Resource the seller intends to offer into each RPM Auction that the seller acknowledges and understands that the Exercise of Buyer-Side Market Power is not permitted in RPM Auctions, and does not intend to submit a Sell Offer for their Generation Capacity Resource as an Exercise of Buyer-Side Market Power. In other words, this status does not carry forward from one auction to the next as does the status regarding Conditioned State Support.

Conditioned State Support

Conditioned State Support is any financial benefit required or incentivized by a state, or political subdivision of a state acting in its sovereign capacity, that is provided outside of PJM Markets and in exchange for the sale of a FERC-jurisdictional product conditioned on clearing in any RPM Auction, where "conditioned on clearing in any RPM Auction" refers to specific directives as to the level of the offer that must be entered for the relevant Generation Capacity Resource in the RPM Auction or directives that the Generation Capacity Resource is required to clear in any RPM Auction. Conditioned State Support shall not include any Legacy Policy defined as any legislative, executive, or regulatory action that specifically directs a payment outside of PJM Markets to a designated or prospective Generation Capacity Resource and the enactment of such action predates October 1, 2021, regardless of when any implementing governmental action to effectuate the action to direct payment outside of PJM Markets occurs.

Government policies or programs that do not provide payments or other financial benefit outside of PJM markets and do not provide payment or other financial benefit in exchange for the sale of a FERC-jurisdictional product conditioned on clearing in any RPM Auction do not constitute Conditioned State Support. Examples of such government policies that do not constitute Conditioned State Support may include, but are not limited to: policies designed to procure, incent, or require environmental attributes, whether bundled or unbundled (e.g., Renewable Energy Credits, Zero Emission Credits; Regional Greenhouse Gas Initiative); economic development programs and policies; tax incentives; state retail default service auctions; policies or programs that provide incentives related to fuel supplies; any contract, legally enforceable obligation, or rate pursuant to the Public Utility Regulatory Policies Act or any other state

administered federal regulatory program (e.g., Cross-State Air Pollution Rule). In addition, Conditioned State Support shall not be determined solely based on the business model of the Capacity Market Seller, such that the fact that a Self-Supply Entity is the Capacity Market Seller, for example, is not a basis for determining Conditioned State Support.

If PJM reasonably believes a government policy or program would provide Conditioned State Support or a Capacity Market Seller certifies that it is receiving or is expected to receive Conditioned State Support associated with a given Generation Capacity Resource, PJM shall submit a filing at FERC indicating the intent to classify the government policy or program from which that support is derived as Conditioned State Support (and adding such policy or program to the list in Tariff, Attachment DD-3) and apply the Minimum Offer Price Rule to each Generation Capacity Resource reasonably expected to receive such Conditioned State Support.

Upon FERC acceptance that a government policy or program or contract with a state entity constitutes Conditioned State Support, a Generation Capacity Resource for which a Capacity Market Seller certifies that it is receiving Conditioned State Support or is reasonably expected to receive such Conditioned State Support, as identified by PJM, with the advice and input of the IMM, will be subject to the provisions of the Minimum Offer Price Rule.

Exercise of Buyer-Side Market Power

The Exercise of Buyer-Side Market Power means anti-competitive behavior of a Capacity Market Seller with a Load Interest, or directed by an entity with a Load Interest, to uneconomically lower RPM Auction Sell Offer(s) in order to suppress RPM Auction clearing prices for the overall benefit of the Capacity Market Seller's (and/or affiliates of Capacity Market Seller) portfolio of generation and load or that of the directing entity with a Load Interest. Load Interest means, for the purposes of the minimum offer price rule, responsibility for serving load within the PJM Region, whether by the Capacity Market Seller, an affiliate of the Capacity Market Seller, or by an entity with which the Capacity Market Seller is in contractual privity with respect to the subject Generation Capacity Resource.

If a Capacity Market Seller does not certify that it acknowledges the prohibition of the Exercise of Buyer Side Market Power and the Capacity Market Seller intends to exercise Buyer-Side Market Power for this Generation Capacity Resource, then the underlying Capacity Resource will be subject to the MOPR. If PJM and/or the IMM reasonably suspects that a certification contains fraudulent or material misrepresentations such that the Capacity Market Seller's Generation Capacity Resource may be the subject of a Sell Offer that would be an Exercise of Buyer-Side Market Power or otherwise reasonably suspects that a Generation Capacity Resource may be the subject of a Sell Offer that would be an Exercise of Buyer-Side Market Power, then PJM and/or the IMM shall initiate a fact-specific review into the facts and circumstances regarding the Generation Capacity Resource and whether the Capacity Market Seller has the ability and incentive to exercise Buyer-Side Market Power with respect to such Generation Capacity Resource. During such fact-specific review, the Capacity Market Seller will

have the opportunity to explain and justify why a Sell Offer for the Generation Capacity Resource would not be an Exercise of Buyer-Side Market Power.

PJM and/or the IMM shall notify the Capacity Market Seller of the bases for inquiry and initiation of review at least 135 days in advance of the RPM Auction conducted for the 2024/2025 Delivery Year and all subsequent Delivery Years, and by the date posted on the PJM website for the 2023/2024 Delivery Year. In initiating a review, PJM and/or the IMM shall provide the affected Capacity Market Seller, in writing, the basis for its inquiry, including, but not limited to, the Generation Capacity Resource(s), and the purported beneficiary of any price suppression. PJM and/or the IMM may request from the Capacity Market Seller additional information and documentation that is reasonably related to the basis for its inquiry, provided that, PJM and the IMM shall confer with the Capacity Market Seller in advance of any such requests. The Capacity Market Seller shall provide any additional supporting information and documentation requested by PJM and/or the IMM, and any other information and documentation the Capacity Market Seller believes may justify the conduct or action in question as not representing an Exercise of Buyer-Side Market Power, within 15 days or other such timeline as agreed to in writing by the PJM, Market Monitoring Unit and Capacity Market Seller.

The fact-specific review will determine, as necessary, whether a Capacity Market Seller has the ability and incentive to submit a Sell Offer for the Generation Capacity Resource that could be an Exercise of Buyer-Side Market Power, in accordance with the provisions of Sections 5.14(h-2)(2(B)(i)(a) and (b) of Attachment DD.

The following non-exhaustive list of circumstances would preclude an inquiry into or determination regarding an Exercise of Buyer-Side Market Power in the course of a review: (a) the Generation Capacity Resource is a merchant generation supply resources that is not contracted to an entity with a Load Interest; (b) the Generation Capacity Resource is acquired by or under the contractual control of the Capacity Market Seller through a competitive and non-discriminatory procurement process open to new and existing resources; or (c) the Generation Capacity Resource is owned by or bilaterally contracted to a Self-Supply Seller and such resource is demonstrated as consistent with or included in the Self-Supply Seller's long-range resource plan (e.g., a long-range hedging plan) that is approved or otherwise reviewed and accepted by the RERRA, provided that any such plan approval or contracts do not direct the submission of an uneconomic offer to deliberately lower market clearing prices or for the Capacity Market Seller to otherwise perform an Exercise of Buyer-Side Market Power. In addition, to the extent a Generation Capacity Resource may receive compensation in support of characteristics aligned with well-demonstrated customer preferences, such compensation shall not, in and of itself, be a basis for the determination of Buyer-Side Market Power. For purposes of evaluating Buy-Side Market Power, Self-Supply Seller is a vertically integrated utility or public power entity where vertically integrated utility means a utility that owns generation, includes such generation in its state-regulated rates, and earns a state-regulated return on its investment in such generation; and public power entity means electric cooperatives that are either rate regulated by the state or have their long-term resource plan approved or otherwise reviewed and accepted by a Relevant Electric Retail Regulatory Authority and municipal utilities or joint

action agencies that are subject to direct regulation by a Relevant Electric Retail Regulatory Authority.

Based on the fact-specific review, including the facts and circumstances of the Generation Capacity Resource, with the advice and input of the IMM, PJM shall determine whether a Generation Capacity Resource may be the subject of a Sell Offer that would be an Exercise of Buyer-Side Market Power. If PJM determines that a Generation Capacity Resource may be the subject of a Sell Offer that would be an Exercise of Buyer-Side Market Power or the Capacity Market Seller certifies that it intends to exercise Buyer-Side Market Power, then such resource will be subject to the provisions of the Minimum Offer Price Rule. If the resource will be subject to the provisions of the Minimum Offer Price Rule, PJM shall include in the notice a written explanation for such determination. A Capacity Market Seller that is dissatisfied with the PJM's determination of whether a given Generation Capacity Resource is subject to the Minimum Offer Price Rule may seek any remedies available to it from FERC; provided, however, that PJM will proceed with administration of the Tariff and market rules based on its determination unless FERC by order directs otherwise.

5.4.8.3 Unit-Specific Exception Process for MOPR Floor Offer Prices

A. Documentation Required in the Unit-Specific Exception Process for New Entry MOPR Floor Offer Price

The Capacity Market Seller of a Generation Capacity Resource that is subject to the MOPR of OATT Attachment DD, section 5.14(h-2) and for which a Sell Offer based on that resource, or any uprate of the Generation Capacity Resource, has not previously cleared an RPM Auction for any Delivery Year may request a unit-specific MOPR Floor Offer Price based on the net CONE of the resource by no later than 120 days prior to the commencement of the offer period of the relevant RPM Auction. Such request must be made simultaneously to PJM and the IMM and must include all required documentation. The Capacity Market Seller must include in its request for an exception documentation to support the fixed development, construction, operation, and maintenance costs of the Capacity Resource, as well as estimates of the offsetting net revenues or sufficient data for PJM and the IMM to produce such net revenue estimates. Estimates of costs and revenues shall be supported at a level of detail comparable to the cost and revenue estimates used to support the default New Entry MOPR Floor Offer Price established for various resource types. Supporting documentation for project costs may include, as applicable and available, the following:

- Complete project description;
- Environmental permits;
- Vendor quotes for plant or equipment;
- Evidence of actual costs of recent comparable projects;
- Bases for electric and gas interconnection costs and any costs contingencies;
- Bases for support for property taxes, insurances, operations and maintenance (O&M) contractor costs, and other fixed O&M and administrative or general costs;

- Financing documents for construction-period and permanent financing or evidence of recent debt costs of the seller for comparable investments;
- Bases and support for the claimed capitalization ratio, rate of return, cost-recovery period, inflation rate, or other parameters used in financial modeling; and
- Identification and support for any sunk cost that the Capacity Market Seller has reflected as a reduction to its Seller Offer.

The Capacity Market Seller must submit a sworn, notarized certification of a duly authorized officer, certifying that the officer has personal knowledge of the resource-specific exception request and that to the best of their knowledge and belief: (1) the information supplied to the Market Monitoring Unit and the Office of Interconnection to support its request for an exception is true and correct; (2) the Capacity Market Seller has disclosed all material facts relevant to the request for the exception; and (3) the request satisfies the criteria for the exception.

The financial modeling assumptions for calculating Cost of New Entry for Generation Capacity Resources shall be: (i) nominal levelization of gross costs, (ii) asset life of twenty years, (iii) no residual value, (iv) all project costs included with no sunk costs excluded, (v) use first year revenues (which may include revenues from the sale of renewable energy credits for purposes other than state-mandated or state-sponsored programs), and (vi) weighted average cost of capital based on the actual cost of capital for the entity proposing to build the Capacity Resource. Notwithstanding the foregoing, a Capacity Market Seller that seeks to utilize an asset life other than twenty years (but no greater than 35 years) shall provide evidence to support the use of a different asset life, including but not limited to, the asset life term for such resource as utilized in the Capacity Market Seller's financial accounting (e.g., independently audited financial statements), or project financing documents for the resource or evidence of actual costs or financing assumptions of recent comparable projects to the extent the seller has not executed project financing for the resource (e.g., independent project engineer opinion or manufacturer's performance guarantee), or opinions of third-party experts regarding the reasonableness of the financing assumptions used for the project itself or in comparable projects. Capacity Market Sellers may also rely on evidence presented in federal filings, such as its FERC Form No. 1 or an SEC Form 10-K, to demonstrate an asset life other than 20 years of similar asset projects.

The request shall identify all revenue sources (exclusive of any Conditioned State Support or bilateral contracts that direct submission of an offer to lower RPM Auction clearing prices) relied upon in the Sell Offer to offset the claimed fixed costs, including, without limitation, long-term power supply contracts, tolling agreements, or tariffs on file with state regulatory agencies, and shall demonstrate that such offsetting revenues are consistent, over a reasonable time period identified by the Capacity Market Seller. In making such demonstration, the Capacity Market Seller may rely upon forecasts of competitive electricity prices in the PJM Region based on well-defined models that include fully documented estimates of future fuel prices, variable operation and maintenance expenses, energy demand, emissions allowance prices, and expected environmental or energy policies that affect the seller's forecast of electricity prices in the region, employing input data from sources readily available to the public. Documentation for net

revenues also may include, as available and applicable, plant performance and capability information, including heat rate, start-up times and costs, forced outage rates, planned outage schedules, maintenance cycle, fuel costs and other variable operations and maintenance expenses, and ancillary service capabilities. Any evaluation of net revenues should be consistent with Operating Agreement, Schedule 2, including, but not limited to, consideration of Fuel Costs, Maintenance Adders and Operating Costs, as applicable.

The Capacity Market Seller shall provide any additional supporting information reasonably requested by PJM or IMM to evaluate the Sell Offer. Requests for additional documentation shall not extend the deadline by which PJM or IMM must provide their determinations of the MOPR exception request.

An evaluated Sell Offer shall be permitted if the information provided reasonably demonstrates that the Sell Offer's competitive, cost-based, fixed, net cost of new entry is below the MOPR Floor Offer Price, based on competitive cost advantages, including, without limitation, competitive cost advantages resulting from the Capacity Market Seller's business model, financial condition, tax status, access to capital or other similar conditions affecting the applicant's cost, or based on net revenues that are reasonably demonstrated to be higher than those used by PJM in the development of the MOPR Floor Offer Price. The Capacity Market Seller must demonstrate that claimed cost advantages or sources of net revenue that are irregular or anomalous, that do not reflect arm's-length transactions, or that are not in the ordinary course of the Capacity Market Seller's business are consistent with the standards of this subsection.

Failure to adequately support costs or revenues so as to enable PJM to make a determination of the MOPR exception request will result in a denial of an exception by PJM.

B. Documentation Required in the Unit-Specific Exception Process for Cleared MOPR Floor Offer Price

The Capacity Market Seller of a Generation Capacity Resource that is subject to the MOPR of OATT Attachment DD, section 5.14(h-2) and for which a Sell Offer based on that resource has previously cleared an RPM Auction for any Delivery Year may request a unit-specific MOPR Floor Offer Price based on the net ACR of the resource by no later than 120 days prior to the commencement of the offer period of the relevant RPM Auction. Such request must be made simultaneously to PJM and the IMM and must include all required documentation. The Capacity Market Seller shall submit a Sell Offer based on the net ACR of the resource consistent with the unit-specific Market Seller Offer Cap process pursuant to Tariff, Attachment DD, section 6.8; except that the 10% uncertainty adder may not be included in the "Adjustment Factor." In addition and notwithstanding the requirements of Tariff, Attachment DD, section 6.8, the Capacity Market Seller may, at its election, include in its request documentation to support projected energy and ancillary services markets revenues. Such a request shall identify all revenue sources (exclusive of any Conditioned State Support or bilateral contracts that direct submission of an offer to lower RPM Auction clearing prices) relied upon in the Sell Offer to

offset the claimed fixed costs, including, without limitation, long-term power supply contracts, tolling agreements, or tariffs on file with state regulatory agencies, and shall demonstrate that such offsetting revenues are consistent, over a reasonable time period identified by the Capacity Market Seller. In making such demonstration, the Capacity Market Seller may rely upon forecasts of competitive electricity prices in the PJM Region based on well-defined models that include fully documented estimates of future fuel prices, variable operation and maintenance expenses, energy demand, emissions allowance prices, and expected environmental or energy policies that affect the seller's forecast of electricity prices in the region, employing input data from sources readily available to the public. Documentation for net revenues also may include, as available and applicable, plant performance and capability information, including heat rate, start-up times and costs, forced outage rates, planned outage schedules, maintenance cycle, fuel costs and other variable operations and maintenance expenses, and ancillary service capabilities. Any evaluation of net revenues should be consistent with Operating Agreement, Schedule 2, including, but not limited to, consideration of Fuel Costs, Maintenance Adders and Operating Costs, as applicable.

The Capacity Market Seller must submit a sworn, notarized certification of a duly authorized officer, certifying that the officer has personal knowledge of the unit-specific exception request and that to the best of their knowledge and belief: (1) the information supplied to the Market Monitoring Unit and the Office of Interconnection to support its request for an exception is true and correct; (2) the Capacity Market Seller has disclosed all material facts relevant to the request for the exception; and (3) the request satisfies the criteria for the exception.

The Capacity Market Seller shall provide any additional supporting information reasonably requested by PJM or IMM to evaluate the Sell Offer. Requests for additional documentation shall not extend the deadline by which PJM or IMM must provide their determinations of the MOPR exception request.

An evaluated Sell Offer shall be permitted if the information provided reasonably demonstrates that the Sell Offer's competitive, fixed, cost-based offer level is below the MOPR Floor Offer Price, based on competitive cost advantages, including, without limitation, competitive cost advantages resulting from the Capacity Market Seller's business model, financial condition, tax status, access to capital or other similar conditions affecting the applicant's cost, or based on net revenues that are reasonably demonstrated to be higher than those used by PJM in the development of the MOPR Floor Offer Price. The Capacity Market Seller must demonstrate that claimed cost advantages or sources of net revenue that are irregular or anomalous, that do not reflect arm's-length transactions, or that are not in the ordinary course of the Capacity Market Seller's business are consistent with the standards of this subsection.

Failure to adequately support costs or revenues so as to enable PJM to make a determination of the MOPR exception request will result in a denial of an exception by PJM.

5.4.8.4 Default MOPR Floor Offer Prices

A. Default New Entry MOPR Floor Offer Price

The Default New Entry MOPR Floor Offer Price for a Generation Capacity Resource that is subject to the MOPR and for which a Sell Offer based on that resource, or any uprate of the Generation Capacity Resource, has not previously cleared an RPM Auction for any Delivery Year is based on the net cost of new entry ("CONE") of the applicable resource type. The net CONE values are determined by subtracting the estimated net energy and ancillary service revenues from the gross cost of new entry ("CONE") values shown in the table below. The gross CONE values of the table below are adjusted for Delivery Years subsequent to the 2022/2023 or 2026/2027 Delivery Year, as applicable, as described below. The net energy and ancillary services revenue estimate is determined for each resource type and for each Zone as described in sections 5.14(h-2)(3)(A)(i) through (viii) of Attachment DD of the PJM OATT.[21]

For the capacity resource types listed in the table below, the Default New Entry MOPR Floor Offer Price is set equal to the net CONE of each resource type expressed in terms of Unforced Capacity ("UCAP") MW where the net CONE values are initially calculated for each resource type in terms of nameplate MW and then converted to UCAP MW. Through the 2024/2025 Delivery Year the net CONE is converted to UCAP MW terms based on the applicable class average EFORd for thermal generation resource types and battery energy storage resource types and the applicable ELCC Class Rating for battery storage, wind and solar generation resource types. Beginning with the 2025/2026 Delivery Year, the net CONE is converted to UCAP MW terms based on the applicable class average Accredited UCAP Factor (i.e., applicable ELCC Class Rating). The resultant net CONE in nameplate MW terms of the battery energy storage resource type is multiplied by 2.5 prior to converting to UCAP terms.

Gross CONE Values used to Determine Default New Entry MOPR Floor Offer Prices

Resource Type	Through the 2025/2026 Delivery Years: Gross CONE (2022/2023 $/MW-Day) (Nameplate)	For the 2026/2027 Delivery Year and Subsequent Delivery Years: Gross Cost of New Entry (2026/2027 $/MW-day Nameplate)
Nuclear	$2,000	$2,568

[21] For the coal resource type, the net energy and ancillary services revenue estimate uses Northern Appalachian delivered prices from rail and barge.

Coal	$1,068	$1,480
Combined Cycle	$320	$540
Combustion Turbine	$294	394
Fixed Solar PV	$271	$298
Tracking Solar PV	$290	$321
Onshore Wind	$420	$438
Offshore Wind	$1,155	$1,351
Battery Energy Storage	$532	$502

Beginning with the 2023/2024 Delivery Year, the gross CONE values of the table above will be adjusted annually based on changes in the Applicable United States Bureau of Labor Statistics ("BLS") Composite Index. The Applicable BLS Composite Index for the combustion turbine and combined cycle resource types shall be the same Applicable BLS Composite Index as that applied to adjust the gross CONE used to determine the VRR Curve for that Delivery Year (see Section 3.3.1 of this manual). For all other resource types, the "BLS Producer Price Index Turbines and Turbine Generator Sets" component shall be replaced with the "BLS Producer Price Index Final Demand, Goods Less Food & Energy, Private Capital Equipment." For the 2023/2024 through 2025/2026 Delivery Years, inclusive, the resultant value shall then be then adjusted further by a factor of 1.022 for nuclear and coal resource types or 1.01 for solar, wind, and storage resource types to reflect the annual decline in bonus depreciation scheduled under federal corporate tax law. No such further adjustment shall be made to the resultant values for the 2027/2028 Delivery year and subsequent Delivery Years.

B. Default Gross Avoidable Cost Rate for Determination of Cleared MOPR Floor Offer Prices

For a Generation Capacity Resource that is subject to the MOPR and for which a Sell Offer based on that resource has previously cleared an RPM Auction for any Delivery Year, the applicable Cleared MOPR Floor Offer Price is based on the net Avoidable Cost Rate determined by subtracting the estimated net energy and ancillary service revenues of the resource from the gross ACR of the resource. The Cleared MOPR Floor Offer Price of a Generation Capacity Resource shall be, at the election of the Capacity Market Seller, either (i) based on the unit-specific net Avoidable Cost Rate ("ACR"), or (ii) if available, the default gross ACR of the applicable resource type shown in the table below net of energy and ancillary services revenue determined for the resource as described in section 5.4.8.5 of this manual. The gross ACR values of the table below are adjusted for Delivery Years subsequent to the 2022/2023 or 2026/2027 Delivery Year, as applicable, using the 10-year average Handy-Whitman Index to account for expected inflation.

For purposes of submitting a Sell Offer, the net ACR values are expressed in terms of Unforced Capacity ("UCAP") MW where the net ACR values are initially calculated for each resource in terms of nameplate MW and then converted to UCAP MW. Through the 2024/2025 Delivery Year the net ACR is converted to UCAP MW terms based on the unit-specific EFORd for thermal generation resource types and battery energy storage resource types and the unit-specific Accredited UCAP value for battery energy storage, solar and wind generation resource types (appropriately time-weighted for any winter Capacity Interconnection Rights). Beginning with the 2025/2026 Delivery Year, the net ACR is converted to UCAP MW terms for all generation resource types based on the resource-specific Accredited UCAP Factor.

Default Gross ACR Values used to determine MOPR Floor Offer Price of Existing Capacity Resource

Existing Resource Type	Through the 2025/2026 Delivery Years: Default Gross ACR (2022/2023 $/MW-Day) (Nameplate)	For the 2026/2027 Delivery Year and Subsequent Delivery Years: Default Gross ACR (20267/ 2027) ($/MW-day) (Nameplate)
Nuclear – Single Unit	$697	$591
Nuclear – Multi Unit	$445	$537
Coal	$80	$94
Combined Cycle	$56	$113
Combustion Turbine	$50	$52
Steam Oil & Gas	NA	$64
Solar PV (Fixed and Tracking)	$40	$70
Onshore Wind	$83	147

5.5 Buy Bids in RPM

Buy Bids for the Incremental Auctions must be submitted in PJM's Capacity Exchange system. Buy Bids are only accepted during a fixed bidding window which is open for at least five (5)

business days. Buy Bids may not be changed or withdrawn after the bidding window for an Incremental Auction is closed.

A Buy Bid must specify:

- Quantify of unforced capacity resources desired, in increments of 0.1 MWs;
- Maximum price willing to pay for unforced capacity resources in $/MW-day;
- All Buy Bids will be for Capacity Performance Resources
- Desired location (Locational Deliverability Area) for the replacement capacity.

Buy Bids may not specify a minimum MW amount. The Buy Bid may clear any MW amount equal to or less than the quantity of unforced capacity resources desired in the Buy Bid.

In the event of a delay or cancellation of a Qualifying Transmission Upgrade, the Buy Bid will specify the purchase of capacity resources (of the Capacity Performance Resource type) in the LDA for which the Qualifying Transmission Upgrade was to increase the CETL (Sink LDA).

Cleared Buy Bids are binding commitments to purchase capacity.

5.6 Energy Market Offer Requirements

All generation resources that have an RPM Resource Commitment must offer into PJM's Day Ahead Energy Market. Demand Resources that have an RPM Resource Commitment must be registered in the Full Program Option or Capacity Only Option of the Emergency or Pre-Emergency Load Response Program and thus available for dispatch during PJM-declared emergency events. Please refer to the ***Energy & Ancillary Services Market Operations Manual (M-11)*** for details on PJM Energy Market participation.

5.7 Base Residual Auction

The Reliability Pricing Model includes a single Base Residual Auction for each Delivery Year. A Base Residual Auction is held during the month of May three (3) years prior to the start of the Delivery Year. Base Residual Auctions are conducted in accordance with the auction schedule posted on the PJM website.

5.7.1 Participation in the Base Residual Auction

Products that resource providers can offer into PJM's Base Residual Auction include:

- Existing Generation Capacity Resources
- Planned Generation Capacity Resources
- Existing Demand Resources
- Planned Demand Resources
- Energy Efficiency Resources

- Aggregate Resources
- Qualifying Transmission Upgrades

Existing Generation Capacity Resources in a party's RPM Resource Portfolio that have no exception to the RPM must offer requirement and that have available capacity to offer and are not offered into the Base Residual Auction for the Delivery Year shall be excluded from participation in any and all Incremental Auctions conducted for the Delivery Year. Generation is treated as existing when the generation is (a) in service at the commencement of the Base Residual Auction or (b) not yet in service but has cleared in an RPM Auction for any prior Delivery Year. These unoffered MWs from existing generation resources shall be ineligible to serve as capacity resources on behalf of any RPM or FRR Load Serving Entity for such Delivery Year, and are therefore prohibited from receiving any RPM capacity revenues for the Delivery Year and prohibited from being committed to an FRR Entity's FRR Capacity Plan for the Delivery Year. To enforce this business rule, PJM will track Daily Unoffered ICAP amounts for generation resources.

Effective with the 2025/2026 Delivery Year, a Planned Generation Capacity Resource must satisfy the requirements of the binding notice of intent in section 4.2.3.1 in order for the Planned Generation Capacity Resource to be included in a Sell Offer for an RPM Auction.

The following are business rules that apply to the Base Residual Auction:

- Existing Generation Capacity Resources, existing Demand Resources, and Energy Efficiency Resources that have an increase in Available ICAP after the Base Residual Auction are eligible to offer the capacity increase into an Incremental Auction for the Delivery Year if the increase is approved prior to the opening of the Incremental Auction bidding window. See Section 5.8.1 for business rules regarding participation in an Incremental Auction.
- For the Base Residual Auction, a party's Current Available ICAP Position for a specific unit for the Delivery Year are equal to the minimum of (Daily ICAP Owned – Daily FRR Capacity Plan Commitments) for the Delivery Year.

$$AvailICAPPosition_{GEN} = Min_{DY}\left(DailyICAPOwned - DailyFRRCommitments\right)$$

- For the Base Residual Auction, a party's Current Available ICAP Position for a specific unit for the summer/winter season is calculated. A party's Current Available ICAP Position for the summer season are equal to the minimum (Daily ICAP Owned – Daily FRR Capacity Plan Commitments) for June through October and May of the Delivery Year. A party's Current, Available ICAP Position for a specific unit for the winter season are equal to the minimum (Daily ICAP Owned – Daily FRR Capacity Plan Commitments) for November through April of the Delivery Year.
- Following a Base Residual Auction, a party's Daily Unoffered ICAP for a generation resource is calculated and is equal to the Available ICAP Position minus the Offered ICAP

in the party's sell offer. A FRR Entity's Daily Unoffered ICAP for a generation resource is set equal to 0 MW.

$$DailyUnofferICAP_{GEN} = AvailICAPPosition_{GEN} - OfferedICAP$$

- A Demand Resource's Available ICAP to offer into a Base Residual Auction is determined based on pre-registration confirmation process in the Capacity Exchange system for such Base Residual Auction and PJM's approval of the Curtailment Service Provider's DR Sell Offer Plan for such Base Residual Auction. A Demand Resource's Existing Available ICAP is determined based on the CSP's completion of the pre-registration process and the DR Existing Setup process in the Capacity Exchange system. A Demand Resource's Planned Available ICAP is determined based on PJM's approval of planned MWs in the CSP's DR Sell Offer Plan and the CSP's completion of the DR Planned Setup process in the Capacity Exchange system. A Demand Resource's Available ICAP is equal to the Existing Available ICAP and Planned Available ICAP. A Demand Resource's Existing Available ICAP and Planned Available ICAP is further classified by the CSP in the DR Existing/Planned Setup process as MWs intend to offer as Annual Capacity Performance, MWs intend to offer as Summer-Period Capacity Performance, and MWs intend to offer as part of Aggregate Resource. Such classification is used to establish the maximum Existing/Planned Available ICAP that may be offered as Capacity Performance (annual) and maximum Existing/ Planned Available ICAP that may be offered as Seasonal Capacity Performance (summer).
- An EE Resource's Available ICAP to offer into a Base Residual Auction is determined based on PJM's approval of the provider's Initial/Updated M&V Plan for such Base Residual Auction and the provider's completion of the EE Setup process in the Capacity Exchange system prior to the Base Residual Auction. An EE Resource's Existing Available ICAP is determined based on Nominated EE Value approved by PJM in the most recent Post-Installation M&V Report and the EE Provider's completion of the EE Existing Setup process in the Capacity Exchange system. An Energy Efficiency Resource's Planned Available ICAP is determined based on PJM's approval of the provider's Initial/Updated M&V Plan for such Base Residual Auction and the provider's completion of the EE Planned Setup process for such Base Residual Auction in the Capacity Exchange system. An EE Resource's Available ICAP to offer into an RPM Auction is equal to the Existing Available ICAP and Planned Available ICAP. An Energy Efficiency Resource's Existing Available ICAP and Planned Available ICAP is further classified by the EE Resource Provider in the EE Existing/Planned Setup process as MWs intend to offer as Annual Capacity Performance, MWs intend to offer as Summer-Period Capacity Performance, and MWs intend to offer as part of an Aggregate Resource. Such classification is used to establish the maximum Existing/Planned Available ICAP that may be offered as Capacity Performance (annual) and maximum Existing/Planned Available ICAP that may be offered as Seasonal Capacity Performance (summer).
- Resources may be directly offered into the Base Residual Auction by specifying a MW quantity and sell offer price in the sell offer or may be self-scheduled into the Base

Residual Auction by enabling the self-schedule flag in the sell offer. See the Resource Specific Sell Offer Requirements Section for further details.

- The product offered in the Base Residual Auction must be resource-specific or apply to a Qualifying Transmission Upgrade.
- The smallest increment that may be offered into a Base Residual Auction is 0.1 MW.

5.7.2 Auction Clearing Mechanism – Base Residual Auction

The Base Residual Auction clearing software is an optimization algorithm. This algorithm has the objective of minimizing capacity procurement costs given the supply offers, Variable Resource Requirement Curve(s), and Locational Constraints, The algorithm will also enforce the requirement that the cleared quantity of Summer-Period Capacity Performance Resources equal the cleared quantity of Winter-Period Capacity Performance Resources for the PJM Region. The supply curve formed by the Sell Offers submitted within a modeled LDA shall only consider the quantity of MWs from Summer-Period Capacity Performance Resources that are equally matched with Winter-Period Capacity Performance Resources within the LDA, such that only the equally matched quantity of opposite-season Sell Offers are considered in satisfying the modeled LDA's reliability requirement.

The Base Residual Auction clearing price for each LDA is determined by the optimization algorithm. The Resource Clearing Price within each LDA is the sum of:

- The marginal value of system capacity, and
- Locational Price Adder(s), if any, relevant to such LDA.

The marginal value of system capacity is the clearing price for Capacity Performance Resources in the unconstrained area of the PJM region.

The Locational Price Adder applicable to each cleared Seasonal Capacity Performance Resource is determined during the post-processing of the RPM Auction results consistent with the manner in which the auction clearing algorithm recognizes the contribution of Seasonal Capacity Performance Resource Sell Offers in satisfying an LDA's Reliability Requirement. For each LDA with a positive Locational Price Adder with respect to the immediate higher level LDA, starting with the lowest level constrained LDA and moving up, PJM determines the quantity of equally matched Summer-Period Capacity Performance Resources and Winter-Period Capacity Performance Resources located and cleared within that LDA. Up to this quantity, the cleared Summer-Period Capacity Performance Resources and Winter-Period Capacity Performance Resources with the lowest sell offer prices will be compensated using the highest Locational Price Adder applicable to such LDA; and any remaining Seasonal Capacity Performance Resources cleared within the LDA are effectively moved to the next higher constrained LDA, where they are considered in a similar manner for compensation.

In the event that the Sell Offers forming the supply curve do not result in an intersection with the Variable Resource Requirement Curve, the marginal value of system capacity will be set along

the Variable Resource Requirement Curve by extending the supply curve vertically from its end point until it intersects the Variable Resource Requirement Curve.

5.7.3 Resource Make-Whole Payments in the Base Residual Auction

A resource provider that offered and cleared fewer MWs than the minimum MW specification in the Base Residual Auction would receive a Resource Make-whole payment.

The Resource Make-whole Payment is equal to the product of the Capacity Resource Clearing Price and the quantity difference between the sell offer's minimum MW specification and the cleared MW quantity in the Base Residual Auction.

$$ResourceMakewholePayment = RCP^{*}\left(SellOfferMinMW - ClearedMW_{BRA}\right)$$

A resource provider that offered and cleared a Seasonal Capacity Performance sell offer for which the sell offer price exceeded the clearing price determined for such resource as a result of the seasonal matching process in the post-processing of the auction results as described in Section 5.7.2 will receive a Resource Make-whole Payment. The Resource Make-whole Payment is equal to the difference between the sell offer price and clearing price for such resource determined as a result of the seasonal matching process, multiplied by the cleared MW quantity.

Make-whole payments required in the BRA will be charged to all LSEs in the LDA via the Final Zonal Capacity Price.

Only cleared Qualifying Transmission Upgrades, cleared resource-specific sell offers, and cleared flexible self-scheduled offers in excess of their self-scheduled quantity are eligible for make-whole payments in the BRA.

5.7.4 Posting of Base Residual Auction Results

Base Residual Auction results are posted to a participant's Capacity Exchange account and summary results are posted to a public portion of the PJM website. For any Base Residual Auction, clearing results will not be posted until after 4 p.m. EPT on Friday of Auction Clearing week.

Participants can view the resolution of their sell offer in the BRA through Capacity Exchange. The results of their sell offer will be categorized as cleared, uncleared, offered, unoffered, or make-whole.

Base Residual Auction sales are credited weekly during the Delivery Year as the unforced capacity is actually utilized.

5.8 Incremental Auctions

The First, Second, and Third Incremental Auctions are conducted to allow for replacement resource procurement, increases and decreases in resource commitments due to reliability requirement adjustments.

A *Conditional Incremental Auction* may be conducted if a Backbone transmission line is delayed and results in the need for PJM to procure additional capacity in a Locational Deliverability Area to address the corresponding reliability problem.

5.8.1 Participation in the Incremental Auctions

Existing Generation Capacity Resources in a party's RPM Resource Portfolio that have no exception to the RPM must offer requirement and that have available capacity to offer and are not offered into an Incremental Auction for the Delivery Year shall be excluded from participation in any subsequent Incremental Auctions conducted for the Delivery Year. Generation is treated as existing when the generation is (a) in service at the commencement of the Incremental Auction or (b) not yet in service but has cleared an RPM Auction for any prior Delivery Year. These unoffered MWs from existing generation shall be ineligible to serve as capacity resources on behalf of any RPM or FRR Load Serving Entity for such Delivery Year, and are therefore prohibited from receiving any RPM capacity revenues for the Delivery Year and prohibited from being committed to an FRR Entity's Capacity Plan for the Delivery Year. To enforce this business rule, PJM will track Daily Unoffered ICAP amounts of generation resources.

Effective with the 2025/2026 Delivery Year, a Planned Generation Capacity Resource must satisfy the requirements of the binding notice of intent in section 4.2.3.1 in order for the Planned Generation Capacity Resource to be included in a Sell Offer for an RPM Auction.

Products that resource providers can offer into an Incremental Auction include:

- Existing Generation Capacity Resources that were offered and not cleared in a prior auction for the same Delivery Year
- Planned Generation Capacity Resources
- Existing Demand Resources or Energy Efficiency Resources that were offered and not cleared in a prior auction for the same Delivery Year
- Planned Demand Resources or Energy Efficiency Resources
- Transmission upgrades are not eligible to be offered into Incremental Auctions. (Transmission upgrades are only eligible to be offered into Base Residual Auction)

The following are business rules that apply to the Incremental Auctions:

- The product offered in the Incremental Auction must be resource-specific.
- The smallest increment that may be offered into an Incremental Auction is 0.1 MW.
- Planned Generation Capacity Resources, Planned Demand Resources, or Energy Efficiency Resources that were not eligible to participate at the time of the Base Residual

Auction or prior Incremental Auction, are eligible to participate in subsequent Incremental Auctions if the planned generation, Planned Demand Resource, or Energy Efficiency Resource meets the requirements specified in Section 4 of this manual.

- Existing Generation Capacity Resources and existing Demand Resources or Energy Efficiency Resources that have increases in Available ICAP after an Incremental Auction are eligible to offer the capacity increase into a subsequent Incremental Auction for the Delivery Year if the Available ICAP increase is approved prior to the opening of the subsequent Incremental Auction bidding window.
- For Incremental Auctions, a Current Available ICAP Position is calculated for generation resources. An Available ICAP Position is also determined for demand resources and energy efficiency resources that intend to offer into such Incremental Auction. These Available ICAP positions are determined for annual period and for summer/winter period if Seasonal Capacity Performance Resource.

A party's Current Available ICAP Position on a unit for an Incremental Auction is equal to the minimum Daily Available ICAP for such unit during the Delivery Year or during summer/winter season.

$$CurrentAvailableICAPPosition_{GEN} = Min\left(DailyAvailableICAP_{GEN}\right)$$

For a party, the Daily Available ICAP on a unit is equal to Daily ICAP Owned – Daily Unoffered ICAP – (Daily RPM Resource Commitments/(Accredited UCAP Factor)) – Daily FRR Capacity Plan Commitments.

$$DailyAvailICAP_{GEN} =$$

$$DailyICAPOwned - DailyUnofferICAP - \left(\frac{DailyRPMResourceCommitments}{Accredited\ \ UCAP\ \ Factor}\right)$$

$$- DailyFRRCommitments$$

A party's Daily Unoffered ICAP for a specific unit is calculated by adding the sum of any Daily Unoffered ICAP for such unit in prior RPM Auctions to Daily Unoffered ICAP amounts transacted through a party's approved unit-specific bilateral sales/purchases.

$$DailyUnofferICAP_{GEN}$$

$$= \sum \left(DailyUnofferICAP_{Prior\ RPMAuctions} + UnofferICAP_{BilateralSales\,/\,Purchases}\right)$$

For an Incremental Auction, a party's Daily Unoffered ICAP for generation resource is equal to the Current Available ICAP Position minus the Offered ICAP in the party's sell offer. A FRR Entity's Daily Unoffered ICAP for a generation resource is set equal to 0 MW.

$$DailyUnofferICAP_{GEN} = MinAvailableICAPPosition - OfferedICAP$$

A Demand Resource's Available ICAP to offer into an Incremental Auction is determined based on pre-registration confirmation process in the Capacity Exchange system for such Incremental Auction and PJM's approval of the Curtailment Service Provider's DR Sell Offer Plan for such

Incremental Auction. A Demand Resource's Existing Available ICAP is determined based on the CSP's completion of the pre-registration process and the DR Existing Setup process in the Capacity Exchange system. A Demand Resource's Planned Available ICAP is determined based on PJM's approval of planned MWs in the CSP's DR Sell Offer Plan and the CSP's completion of the DR Planned Setup process in the Capacity Exchange system. A Demand Resource's Available ICAP is equal to the Existing Available ICAP and Planned Available ICAP. A Demand Resource's Existing Available ICAP and Planned Available ICAP is further classified by the CSP in the DR Existing/Planned Setup process as MWs intend to offer as Annual Capacity Performance and MWs intend to offer as Summer-Period Capacity Performance. Such classification is used to establish the maximum Existing/Planned Available ICAP that may be offered as Capacity Performance (annual) and maximum Existing/Planned Available ICAP that may be offered as Seasonal Capacity Performance (summer).

An EE Resource's Available ICAP to offer into an Incremental Auction is determined based on PJM's approval of the provider's Initial/Updated M&V Plan for such Incremental Auction and the provider's completion of the EE Setup process in the Capacity Exchange system prior to the Incremental Auction. An EE Resource's Existing Available ICAP is determined based on Nominated EE Value approved by PJM in the most recent Post-Installation M&V Report and the EE Provider's completion of the EE Existing Setup process in the Capacity Exchange system. A Energy Efficiency Resource's Planned Available ICAP is determined based on PJM's approval of the provider's Initial/Updated M&V Plan for such Incremental Auction and the provider's completion of the EE Planned Setup process for such Incremental Auction in the Capacity Exchange system. An EE Resource's Available ICAP to offer into an RPM Auction is equal to the Existing Available ICAP and Planned Available ICAP. An Energy Efficiency Resource's Existing Available ICAP and Planned Available ICAP is further classified by the EE Resource Provider in the EE Existing/Planned Setup process as MWs intend to offer for Annual period and MWs intend to offer for Summer period. Such classification is used to establish the maximum Existing/ Planned Available ICAP that may be offered as Capacity Performance (annual) and maximum Existing/Planned Available ICAP that may be offered as Seasonal Capacity Performance (summer).

5.8.2 Timing of the Incremental Auctions

The First Incremental Auction is held during the month of September, twenty (20) months prior to the start of the Delivery Year.

The Second Incremental Auction is held during the month of July, ten (10) months prior to the start of the Delivery Year.

The Third Incremental Auction is held during the month of February, three (3) months prior to the start of the Delivery Year.

Incremental Auctions are conducted in accordance with the auction schedule posted on the PJM website.

5.8.3 Resource Make-Whole Payments in Incremental Auctions

A resource provider that offered and cleared fewer MWs than its minimum MW specification in an RPM Auction would receive a resource make-whole payment. This situation occurs because of the minimum MW specification in the sell offer data. This can occur at most for one resource in each LDA and for a one resource in the unconstrained market region.

The Resource Make-whole Payment is equal to the product of the Capacity Resource Clearing Price and the quantity difference between the sell offer's minimum MW specification and the cleared MW quantity in the Auction.

A resource provider that offered and cleared a Seasonal Capacity Performance sell offer for which the sell offer price exceeded the clearing price determined for such resource as a result of the seasonal matching process in the post-processing of the auction results as described in Section 5.8.5 will receive a Resource Make-whole Payment. The Resource Make-whole Payment is equal to the difference between the sell offer price and clearing price for such resource determined as a result of the seasonal matching process, multiplied by the cleared MW quantity.

Make-whole payments required in the Auction will be charged to all cleared participant and PJM buy bids on pro-rata basis based on the MWs cleared in such auction. Only cleared resource specific sell offers are eligible for make-whole payments in an Incremental Auction.

Make-whole charges assessed to buy bids cleared by PJM will be assessed to LSEs in the LDA via the Final Zonal Capacity Price.

5.8.4 Allocation of Costs in Incremental Auctions

The costs of the incremental commitments that are cleared in Incremental Auctions are allocated to resource providers that cleared Buy Bids in that Incremental Auction based on the cleared Buy Bid MW quantity and the clearing price and to LSEs by adjusting the Zonal Capacity Price.

5.8.5 Auction Clearing Mechanism – Incremental Auctions

The clearing of the Incremental Auctions is determined by the intersection of the supply curve and the demand curve. In the event the Sell Offers forming the supply curve do not intersect with the Buy Bids forming the demand curve, one of the following will occur:

1. The clearing will be set along the demand curve by extending the supply curve vertically upward from its end point unit it intersects the demand curve, or
2. The clearing will be set along the supply curve by extending the demand curve vertically downward from its end point until it intersects the supply curve, or

If no intersections occur as a result of the supply curve extension or the demand curve extension, no capacity will be cleared in the Incremental Auction. The Incremental Auction

clearing prices for each Buy Bid or Sell Offer cleared is determined by the same optimization algorithm used in the Base Residual Auction clearing.

The Resource Clearing Price within an LDA is equal to the sum of:

- The marginal value of system capacity and
- The Locational Price Adder(s), if any relevant for such LDA.

The marginal value of system capacity is the clearing price for Capacity Performance Resources in the unconstrained area of the PJM region.

The Locational Price Adder applicable to each cleared Seasonal Capacity Performance Resource is determined during the post-processing of the RPM Auction results consistent with the manner in which the auction clearing algorithm recognizes the contribution of Seasonal Capacity Performance Resource Sell Offers in satisfying participant and PJM Buy Bids in an LDA. For each LDA with a positive Locational Price Adder with respect to the immediate higher level LDA, starting with the lowest level constrained LDA and moving up, PJM determines the quantity of equally matched Summer-Period Capacity Performance Resources and Winter-Period Capacity Performance Resources located and cleared within that LDA. Up to this quantity, the cleared Summer-Period Capacity Performance Resources and Winter-Period Capacity Performance Resources with the lowest sell offer prices will be compensated using the highest Locational Price Adder applicable to such LDA; and any remaining Seasonal Capacity Performance Resources cleared within the LDA are effectively moved to the next higher constrained LDA, where they are considered in a similar manner for compensation.

The First, Second, and Third Incremental Auction clearing software is an optimization algorithm. The algorithm has the objective of minimizing the cost of committing capacity for the submitted Buy Bids given the Locational Constraints and submitted supply offers.

The algorithm will also enforce the requirement that the cleared quantity of Summer-Period Capacity Performance Resources equal the cleared quantity of Winter-Period Capacity Performance Resources for the PJM Region. The supply curve formed by the Sell Offers submitted within a modeled LDA shall only consider the quantity of MWs from Summer-Period Capacity Performance Resources that are equally matched with Winter-Period Capacity Performance Resources within the LDA, such that only the equally matched quantity of opposite-season Sell Offers are considered in satisfying the participant and PJM Buy Bids in a modeled LDA.

5.8.6 Posting of Incremental Auction Results

The Incremental Auction results are posted to a participant's Capacity Exchange account and summary results are posted to a public portion of the PJM website. For any Incremental Auction, clearing results will not be posted until after 4 p.m. EPT on the fifth business day after the close of the RPM Auction offer window.

Participants may view the resolution of their sell offer in the Incremental Auction through Capacity Exchange. The results of their sell offer will be categorized as cleared, offered, unoffered, or make-whole.

Incremental Auction purchases/sales (i.e., Auction Charges/Auction Credits) are charged/ credited weekly during the Delivery Year.

5.9 Auction Clearing Results

5.9.1 Zonal Capacity Prices

Zonal Capacity Prices for a Delivery Year are calculated following the Base Residual Auction for the Delivery Year and are adjusted following each Incremental Auction for the Delivery Year.

Preliminary Zonal Capacity Prices are calculated and posted following the Base Residual Auction for each Delivery Year. The Preliminary Zonal Capacity Price for each Zone is the sum of:

1. The marginal value of system capacity for the PJM Region;
2. The Locational Price Adder, if any, for such zones in a constrained Locational Deliverability Area (LDA); and
3. An adjustment in the Zone, if required, to account for any resource make-whole payments.

Make-whole payments are allocated to the entire obligation associated with the area in which the resource is cleared. If the resource clears in the unconstrained area, the make-whole payment is allocated to the entire RTO obligation. If the resource that is made whole clears in located in a constrained LDA, the make-whole payment is allocated to the entire obligation of the constrained LDA.

The following are business rules that apply to the Preliminary Zonal Capacity Prices:

- The Weighted Zonal Capacity Price for a Zone that includes multiple non-overlapping LDAs is the weighted average of the Zonal Capacity Prices for such LDAs, weighted by the Unforced Capacity of Resources Cleared (including Make whole MW) in each such LDA. If the Zone has a smaller LDA within a larger LDA then the Weighted Zonal Capacity Price is calculated using the smaller LDA and the remaining portion of the larger LDA.
- The Locational Price Adder is an addition to the marginal value of unforced capacity within an LDA as necessary to reflect the price of resources required to relieve the applicable binding locational constraints.
- A Locational Price Adder for an LDA shall not be a negative number.

Note:
Preliminary Zonal Capacity Prices for the Delivery Year are posted by PJM at the end of the Base Residual Auction clearing process.

Zonal Capacity Prices for a Delivery Year are adjusted following each Incremental Auction for the Delivery Year. The Adjusted Zonal Capacity Prices for each Zone is the sum of:

1. The average marginal value of system capacity weighted by the Unforced Capacity cleared in all auctions conducted to date for the Delivery Year (excluding any Unforced Capacity cleared as replacement capacity);
2. The average Locational Price Adder, if any, weighted by the Unforced Capacity cleared in all auctions conducted to date for the Delivery Year (excluding any Unforced Capacity cleared as replacement capacity)[22]; and
3. An adjustment, if required, to account for any resource make-whole payments for all auctions conducted to date for the Delivery Year (excluding any resource make-whole payments to be charged to the buyers of replacement capacity).

Note:
Adjusted Zonal Capacity Prices for the Delivery Year are posted following each Incremental Auction for that Delivery Year.

The Final Zonal Capacity Prices reflect the final price adjustments that are necessary to account for potential decreases in RPM Auction Credits to existing demand resources that were granted relief from Capacity Resource Deficiency Charges due to permanent departure of load . In addition, Final Zonal Capacity Prices reflect any price adjustments that are necessary to account for any transition provisions that are in effect for the Delivery Year (e.g., Prior CIL Exception External Resources that elected prior to the Delivery Year Third Incremental Auction to be relieved of their capacity obligation for such Delivery Year, or EE Resources electing prior to Delivery Year Third Incremental Auction to be relieved of their capacity obligation for such Delivery Year due to prohibition of EE participation by a Relevant Electric Retail Regulatory Authority.

The Final Zonal Capacity Prices are calculated such that the total amount of credit for CTR holders, Incremental CTR Holders, resources cleared for LSEs in all RPM Auctions for a given Delivery Year, Qualifying Transmission Upgrades cleared in the Base Residual Auction, and by LSEs serving load that is committed as price responsive demand for the Delivery Year equals to the total amount of Locational Reliability Charges assessed to loads. The Final Zonal Capacity Price is not net of the Final Zonal CTR Credit Rate.

Note:
The ***Final Zonal Capacity Prices*** for the Delivery Year are posted by PJM following the Third Incremental Auction for that Delivery Year.

[22] A weighted average Locational Price adder may be a negative number.

5.9.2 CTR Credit Rates

The Base Zonal CTR Credit Rate ($/MW-day) is equal to the Economic Value of CTRs allocated to LSEs in a zone as a result of the Base Residual Auction divided by the Base Zonal UCAP Obligation.

$$BaseZonalCTRCreditRate = \frac{BRAZonalEconomicValueofCTRs_{LSEs}}{BaseZonalUCAPOblig}$$

Note:
The ***Base Zonal CTR Credit Rate*** is posted with the Base Residual Auction results.

The Final Zonal CTR Credit Rate ($/MW-day) is equal to the Economic Value of CTRs allocated to LSEs in a zone as a result of all RPM Auctions for the Delivery Year divided by the Final Zonal UCAP Obligation.

$$FinalZonalCTRCreditRate = \frac{FinalZonalEconomicValueofCTRs_{LSEs}}{FinalZonalUCAPOblig}$$

Note:
The ***Final Zonal CTR Credit Rates*** are posted by PJM with the Third Incremental Auction clearing results.

5.9.3 CTR Settlement Rates

The CTR Settlement Rate ($/MW-day) is equal to the total Economic Value of CTRs ($/day) allocated to LSEs in a zone for all LDAs in which the zone resides as a result of all RPM Auctions for a Delivery Year divided by the maximum of the LDA CTR MWs allocated to LSEs in a zone.

$$FinalZonalCTRSettlementRate = \frac{FinalZonalEconomicValueofCTRs_{LSEs}}{ZonalMaxLDACTRMWs_{LSEs}}$$

Note:
The ***CTR Settlement Rates*** are posted by PJM with the Third Incremental Auction clearing results.

5.10 Reliability Backstop

The Reliability Backstop provides a mechanism to resolve reliability criteria violations caused by:

- Lack of sufficient capacity committed through the RPM Auctions or
- Near-term transmission deliverability violations identified after the Base Residual Auction is conducted

The purpose of the Reliability Backstop is to guarantee that sufficient generation, transmission and demand response solutions will be available to preserve system reliability. The Reliability Backstop mechanism is based on specific triggers that signal a need for a targeted solution to a reliability problem that was not resolved by the long-term commitment of Capacity Resources committed as a result of the RPM Auctions.

Details on the Reliability Backstop, including the triggering conditions and auction clearing procedures, can be found in ***Section 16 of Attachment DD of the Open Access Transmission Tariff.***

Section 6: Capacity Transfer Rights

Welcome to the *Capacity Transfer Rights* section of the ***PJM Manual for the Capacity Market***. In this section, you will find the following information:

- The definition and purpose of Capacity Transfer Rights (see "Definition and Purpose of Capacity Transfer Rights")
- The business rules for determining Capacity Transfer Rights (see "Determination of Capacity Transfer Rights"
- The business rules for allocation of Capacity Transfer Rights (see "Allocation of Capacity Transfer Rights")
- The business rules for determining Capacity Transfer Right credits (see "Capacity Transfer Rights Credits")
- The business rules for transferring Capacity Transfer Rights (see "Capacity Transfer Rights Transfer")

6.1 Definition and Purpose of Capacity Transfer Rights

The purpose of Capacity Transfer Rights is to allocate the economic value of transmission import capability that exists into a constrained LDA to holders of Capacity Transfer Rights. Therefore, Capacity Transfer Rights serve to offset a portion of the Locational Price Adder charged to load in constrained LDAs.

As explained in Section 3, constrained Locational Deliverability Areas (LDAs) are modeled with their own VRR curves in the auction clearing process. The transmission import capability limit into a constrained LDA would require clearing resources with higher offer prices in the LDA (but at less than the prices on the LDA VRR Curve) to achieve the highest possible reliability in the LDA. This process would typically result in a price separation with LDA clearing price being higher than the unconstrained RTO clearing price. The Zonal Capacity Prices calculated in the constrained LDA would also be higher as they are a function of this higher clearing price. LSE Locational Reliability Charge in a zone is the LSE unforced capacity obligation multiplied by the Zonal Capacity Price. However, part of the LSE unforced capacity obligation is met by imported resources that receive auction credits at a lower price than the LDA clearing price. The credit to account for these lower-priced imported resources is achieved by allocating Capacity Transfer Rights (CTRs) to LSEs. CTRs would amount to dollar credits that would reduce the LSE load charges.

It is important to note that the LDA Reliability Requirement (based on the internal generation and CETO) used in the clearing process is typically higher than the unforced capacity obligation (based on coincident peak load) used for load charges and the CTR determination. Since the concept of CTRs is to provide credit towards the portion of the obligation met by imported resources, CTRs are calculated as the difference between the zonal (LDA) unforced capacity

obligation and the unforced capacity cleared in the zone (LDA). The total CTRs are typically lower than the LDA import capability (CETL) while the CETL is fully utilized in meeting the LDA Reliability Requirement and calculating the LDA clearing price. LSEs in the constrained LDA benefit when the CETL into the LDA is increased by transmission upgrades.

A transmission upgrade may be funded by a Project Developer, Eligible Customer, or Upgrade Customer (or, for facilities or upgrades in PJM queue prior to March 1, 2007 to an Interconnection customer) obligated to fund a transmission facility or upgrade through a rate or charge specific to such facility or upgrade. In this case, the customer is allocated Incremental CTRs (Participant-Funded Project ICTRs). Alternately, a transmission upgrade may be offered as a Qualified Transmission Upgrade (QTU) in the Base Residual Auction. A cleared QTU will receive auction credits.

Incremental Capacity Transfer Rights (ICTRs) associated with Regional Facilities and Necessary Lower Voltage Facilities that are Incremental Rights-Eligible Required Transmission Enhancements will be allocated to Responsible Customers to whom the costs of the Regional Facilities and Necessary Lower Voltage Facilities are assigned. ICTRs associated with Lower Voltage Facilities that are Incremental Rights-Eligible Required Transmission Enhancements are also allocated to Responsible Customers to whom the costs of the Lower Voltage Facilities are assigned. Incremental Rights-Eligible Required Transmission Enhancements are Regional Facilities and Necessary Lower Voltage Facilities or Lower Voltage Facilities (as defined in Scheduled 12 of the Tariff) and meet one of the following criteria: (1) cost responsibility assigned to non-contiguous Zones that are not directly electrically connected; or (2) cost responsibility is assigned to Merchant Transmission Providers that are Responsible Customers.

In these cases the total CTRs are reduced to provide credits to these parties before distributing the CTRs to LSEs.

6.1.1 Capacity Transfer Rights

The following are business rules that apply to Capacity Transfer Rights:

- Capacity Transfer Rights are applicable only for the Delivery Year for which they were defined.
- Capacity Transfer Rights are specified to the nearest 0.1 MW.
- The total amount of Capacity Transfer Rights that are allocated to LSEs in an LDA are equal to the amount of unforced capacity imported into such LDA based on the results of the Base Residual Auction and all Incremental Auctions for such Delivery Year less [the Participant-Funded ICTRs and Incremental Rights-Eligible Required Transmission Enhancements ICTRs that are allocated into the LDA for the Delivery Year less the amount of import capability increase into the LDA attributed to Qualifying Transmission Upgrades for the Delivery Year]. Capacity Transfer Rights (CTRs) for LSEs will be allocated in MWs for each modeled LDA in which the RPM Auctions for the Delivery Year resulted in a non-zero average weighted Locational Price Adder with respect to the immediate higher level LDA.

- The economic value (in $/day) of Capacity Transfer Rights in an LDA as a result of all RPM Auctions for the Delivery Year is equal to (i) the average weighted Locational Price Adder for such LDA determined with respect to the immediate higher level LDA as a result of all RPM Auctions for such Delivery Year, multiplied by (ii) the MW quantity of CTRs allocated to LSEs in the LDA. The total economic value (in $/day) of Capacity Transfer Rights to LSEs in a zone is the sum of the economic values of Capacity Rights in an LDA for all LDAs in which such zone resides.

6.1.2 Participant-Funded Project Incremental Capacity Transfer Rights

Incremental Capacity Transfer Rights (ICTRs) are allocated to an Upgrade Customer (or, for facilities or upgrades in PJM queue prior to March 1, 2007 to an Interconnection customer) obligated to fund a transmission facility or upgrade through a rate or charge specific to such facility or upgrade, to the extent such upgrade or facility increases the import capability into an LDA. Such incremental Capacity Transfer Rights allocation is based on the incremental increase in import capability across a Locational Constraint that is caused by the transmission facility upgrade.

Incremental Capacity Transfer Rights will be effective for thirty years or the life of the facility or upgrade, whichever is less. Under conditions when the internal resources cleared in the LDA are high, the total amount of Capacity Transfer Rights is limited, which may reduce the Incremental Capacity Transfer Rights available to Participant-Funded Projects.

If a customer funds advancement of a network transmission upgrade, the customer will receive Incremental CTRs for the years the upgrade is advanced based on the incremental CETL into a constrained LDA as certified by PJM. The customer should request PJM to certify the Incremental CTRs due to an advancement of a network transmission upgrade at least 90 days prior to the Base Residual Auction.

Participants must request PJM to certify the Incremental CTRs into the constrained LDAs modeled in RPM at least 90 days prior to the Base Residual Auction. PJM will certify the Incremental CTRs into the constrained LDA at least 45 days prior to the Base Residual Auction.

For LDAs in which the RPM Auctions for such Delivery Year result in a positive average weighted Locational Price Adder with respect to the immediate higher level LDA, the holder of a Participant-Funded ICTR into such LDA shall receive a payment equal to (i) average weighted Locational Price Adder for the LDA into which the associated facility or upgrade increased import capability, multiplied by (ii) MW amount of ICTRs allocated to holder. No payment will be issued to the holder when a zero or negative average weighted Locational Price Adder with respected to the immediate higher level LDA is calculated as a result of the RPM Auctions for such Delivery Year.

Participant-Funded ICTRs may be traded similar to CTRs.

6.1.3 Incremental Capacity Transfer Rights Associated with Incremental Rights-Eligible Required Transmission Enhancements

Incremental Rights-Eligible Required Transmission Enhancements may include Regional Facilities and Necessary Lower Voltage Facilities, and Lower Voltage Facilities. Regional Facilities are Transmission Facilities as defined in section 1.27 of the Consolidated Transmission Owners Agreement (Rate Schedule FERC No. 42) that are included in Regional Transmission Expansion Plan (RTEP) and operate at or above 500 kV. Necessary Lower Voltage Facilities are Transmission Facilities that operate below 500 kV and must be constructed or strengthened to support new Regional Facilities. Lower Voltage Facilities are Transmission Facilities that operate below 500 kV which are included in RTEP to address one or more reliability violations or to address operational adequacy and performance issues and are not Necessary Lower Voltage Facilities. Responsible Customers, as defined in Schedule 12 of the Tariff, that are Network Customers, Transmission Customers with an agreement for Firm Point-to-Point Service, or Merchant Transmission Facility Owners, and that are assigned cost responsibility for an Incremental Rights-Eligible Required Transmission Enhancement shall be allocated a share of the ICTRs associated with such facility in accordance with the percentage cost responsibility assigned to Responsible Customers for such facility as set forth in Schedule 12-Appendix to the Tariff.

ICTRs associated with Regional Facilities and Necessary Lower Voltage Facilities are determined and allocated to Responsible Customers. ICTRs associated with Lower Voltage Facilities are also determined and allocated to Responsible Customers. The ICTRs (in MWs) associated with a given Incremental Rights-Eligible Required Transmission Enhancement are established by PJM prior to the conduct of the Base Residual Auction for the first Delivery Year for which such facility is to be in service. Once established, the ICTRs for such facility are available for allocation for 30 years or the life of the project, whichever is less.

PJM determines the increase in CETL into an applicable LDA as a result of an Incremental Rights-Eligible Transmission Enhancement planned for the Delivery Year. The increase in the CETL represents the ICTRs (in MWs) into the LDA provided by such planned facility. If such facility increases CETL into multiple LDAs, PJM will calculate 'simultaneous' increases in CETL into the LDAs and determine a separate ICTR MW amount for each LDA, equal to the respective increase in CETL into such LDA. .

The allocation (in MWs) of a Delivery Year's ICTRs for the Incremental Rights-Eligible Required Transmission Enhancement to a Responsible Customer may change during the Delivery Year if the percentage cost responsibility assigned to the Responsible Customers for such facility as set forth in Schedule 12-Appendix to the Tariff changes during the Delivery Year.

During the Delivery Year, each Network Customer (LSE) within a zone will be allocated a share of the zone's ICTRs associated with Incremental Rights-Eligible Required Transmission Enhancements for such Delivery Year in proportion to the customer's share of the zonal NSPL. These allocations may change day to day as end-use customers change from LSE to LSE.

ICTRs associated with Incremental Rights-Eligible Required Transmission Enhancements may be traded similar to CTRs.

The economic value of Incremental Rights-Eligible Required Transmission Enhancement ICTRs may change from year to year and will become zero when a zero or negative average weighted Locational Price Adder with respect to the immediate higher level LDA is calculated as a result of RPM Auctions for such Delivery Year.

The economic value (in $/day) of Incremental Rights-Eligible Required Transmission Enhancement ICTRs in an LDA as a result of all RPM Auctions for the Delivery Year is equal to (i) the average weighted Locational Price Adder for such LDA determined with respect to the immediate higher level LDA as a result of all RPM Auctions for such Delivery Year, multiplied by (ii) the MW quantity of Regional Project ICTRs in an LDA allocated to Responsible Customers.

6.2 Determination of Capacity Transfer Rights

For LDAs in which a positive average weighted Location Price Adder with respect to the immediate higher level LDA is calculated as a result of all RPM Auctions for the Delivery Year, the total amount of Capacity Transfer Rights in such LDA are equal to the Final Unforced Capacity Imported into such LDA as a result of all RPM Auctions for the Delivery Year. The Total CTRs into a constrained LDA are reduced by (1) an equivalent QTU import capability cleared, (2) Participant-Funded Project ICTRs, and (3) Incremental Rights-Eligible Required Transmission Enhancement ICTRs, and the remaining CTRs are allocated to the LSEs in the LDA (Zone). ICTRs may be reduced if the Total CTRs calculated for a constrained LDA are limited in any Delivery Year. If the Total CTRs are limited, CTRs will first be allocated to a cleared QTU. Any remaining CTRs will be allocated to ICTRs associated with Participant-Funded Projects and Incremental Rights-Eligible Required Transmission Enhancements pro rata based on their original ICTR certified amount. For LDAs in which the average Locational Price Adder with respect to the immediate higher level LDA is negative, the Total CTRs are allocated only to LSEs.

$$LDACTR_{LSEs} = FinalLDAUCAPImported - LDAQTUEquivalents - LDAICTRs$$

Where:

Final Unforced Capacity Imported into an LDA	is equal to the Final Unforced Capacity Obligation for such LDA as a result of all RPM Auctions for such Delivery Year less the net participant buy bid/sell offers cleared in the LDA for all RPM Auctions for such Delivery Year.
Final LDA Unforced Capacity Obligation	is equal to the sum of the Final Zonal Unforced Capacity Obligations for the zones in the LDA.
equivalent QTU import capability cleared into an LDA	is determined as the QTU BRA Auction Credits ($/day) received by the cleared QTU into an LDA divided by the weighted locational price adder of such LDA with respect to the immediate higher level LDA.

If the LDA into which the Incremental Capacity Transfer Rights are allocated or the import capability is increased by a Qualifying Transmission Upgrade is a part of a zone (e.g., DPL South or PS North), the calculations will be made based on the zone instead of the LDA using a Weighted Locational Price Adder for the zone with respect to the immediate higher level LDA to determine an equivalent Incremental Capacity Transfer Rights into the zone or an equivalent import capability into the zone in the case of a Qualifying Transmission Upgrade.

6.3 Allocation of Capacity Transfer Rights

The allocation of the total Capacity Transfer Rights in an LDA is performed on a pro-rata basis for each LSE based on the Daily Unforced Capacity Obligation that they serve in zones included in the constrained LDA. The allocated CTRs in an LDA will be reallocated to LSEs on a daily basis as load switches between retail suppliers within each zone.

When a Zone and its sub-zones are constrained LDAs, CTR calculations are performed on a Zonal basis.

When an LDA is entirely contained within another LDA (e.g., a Zone is a smaller LDA within a Group of Zones which is a larger LDA), a portion of the larger LDA Capacity Transfer Rights will be allocated to the smaller LDA, based on the smaller LDA's proportion of the larger LDA's unforced capacity obligation.

6.4 Capacity Transfer Rights Credits

LSEs that were allocated CTRs in a zone will receive a daily zonal CTR Credit as described in the Settlements section of this Manual.

Participants that were allocated Incremental CTRs into an LDA will receive a daily Incremental CTR Credit equal to the total Incremental CTRs allocated times the Final Incremental CTR Credit Rate for such LDA.

The Final Incremental CTR Credit Rate for an LDA is equal to the LDA's weighted Locational Price Adder with respect to the immediate higher level LDA as a result of all RPM Auctions for such Delivery Year.

6.5 Capacity Transfer Rights Transfers

RPM Market Participants will have the ability to request CTR or ICTR Transfers by notifying PJM. The purpose of a CTR Transfer is to transfer the ownership of a specified amount of CTR MWs in a given zone from the Seller to the Buyer.

The following are business rules that apply to Capacity Transfer Rights Transfers:

- CTR Transfer requests must specify the buyer, seller, start and end dates of the transfer, the transfer amount (in MW), and the zone from which to transfer the CTRs.
- CTR Transfers will result in the "Buyer" receiving the credit that would have been due to the "Seller" of the CTRs.
- The smallest increment of CTRs that may be transferred is 0.1 MW.
- Both the Buyer and the Seller of a CTR Transfer Transaction must submit the CTR Transfer request to PJM before the following daily accounting deadlines (all times in Eastern Prevailing Time):
  - 1:00 PM (Tuesday – Friday) for transactions beginning on the previous day
  - 5:00 PM (Monday) for transactions beginning on Friday, Saturday, and Sunday
  - 5:00 PM (a day after the holiday) for transactions beginning on a holiday

Section 7: Load Obligations

Welcome to the *Load Obligations* section of the ***PJM Manual for the PJM Capacity Market***. In this section, you will find the following information:

- An overview description of Load Obligations (see "Overview of Load Obligations")
- The business rules for determining Unforced Capacity Obligations (see "Unforced Capacity Obligations")
- The business rules for determining RPM Scaling Factors (see "RPM Scaling Factors")
- The business rules for determining Obligation Peak Load values (see "Obligation Peak Load")
- The process for determining load obligations (see "Process for Determining Load Obligations")
- The business rules for the treatment of Non-Zone Load (see "Non-Zone Load)

7.1 Overview of Load Obligations

In the Reliability Pricing Model, Unforced Capacity is the basis for the market product that is cleared in each auction. Unforced Capacity (UCAP) is a) installed capacity rated at summer conditions that is not, on average, experiencing a forced outage or forced de-rating or b) Effective UCAP provided by ELCC Resources. While unforced capacity (UCAP) is the basis for the valuation of generating capacity, in RPM, this concept is also used to value load management (Demand Resources (DR) , Energy Efficiency, Reliability Requirements of RTO and LDAs, and to define load obligations of Load Serving Entities. Load obligations are obligations to serve load or obligations to reduce load during the Delivery Year valued as unforced capacity.

Load Obligations are based on the Unforced Capacity Obligation procured in Base Residual Auction and all the Incremental Auctions.

7.2 Unforced Capacity Obligations

7.2.1 Determination of Unforced Capacity Obligations

Unforced Capacity Obligations are obligations for load to be served during the delivery year in unforced capacity terms. However, since RPM auction participants are not bidding in the demand for UCAP in the RPM process, the reliability requirement is forecasted on an aggregate basis prior to the clearing of the RPM Auctions as an input into the clearing process.

In the Reliability Pricing Model, unforced capacity obligations are determined for the RTO and Zones as a result of the Base Residual Auction and all Incremental Auctions.

The following parameters, discussed in detail below, are values used in the determination of Unforced Capacity Obligations:

- Peak Load Forecasts
- Forecast Pool Requirement (FPR)

7.2.2 Base Unforced Capacity Obligations

A Base RTO Unforced Capacity Obligation is determined after the clearing of the Base Residual Auction and is posted with the Base Residual Auction results. The Base RTO Unforced Capacity Obligation is equal to the sum of the unforced capacity obligation satisfied through the Base Residual Auction.

$$BaseRTOUCAPOblig = UCAPOblig_{BRA}$$

RTO Unforced Capacity Obligation satisfied in Base Residual Auction is used to determine the Base Zonal RPM Scaling Factors for use in determining Base Zonal Unforced Capacity Obligation. See Section 7.3.2 for Base Zonal RPM Scaling Factor equation.

Base Zonal Unforced Capacity Obligation

Zonal Unforced Capacity Obligations are determined based on an allocation of the RTO Unforced Capacity Obligation based on zonal peak load forecasts. As a result of the RPM Auction clearing process, additional resources above those required to meet the IRM may be procured and allocated to the zones. Since resource requirements in the constrained zones may be higher than those required based on IRM (FPR) these requirements affect the clearing price in the zones but not the allocation of RTO obligations to zones.

A Base Zonal Unforced Capacity Obligation is determined for each zone and is equal to the (Zonal Weather Normalized Summer Peak for the summer four years prior to the Delivery Year* Base Zonal RPM Scaling Factor * the Forecast Pool Requirement).

$$BaseZonalUCAPOblig =$$

$$\left(ZWNSP_{DY-4} * BaseZonalRPMScalingFactor * FPR\right)$$

Note:
Base Zonal Unforced Capacity Obligations are posted with the Base Residual Auction clearing results.

7.2.3 Final Zonal Unforced Capacity Obligations

The Final RTO Unforced Capacity Obligation is determined after the clearing of the final Incremental Auction for the Delivery Year. The Final RTO Unforced Capacity Obligation is equal to the RTO unforced capacity obligations satisfied through all RPM Auctions for the Delivery Year. The RTO unforced capacity obligation through all RPM Auctions is equal to the total MWs

cleared in PJM Buy Bids in RPM Auctions less the total MWs cleared in PJM Sell Offers in RPM Auctions.

$$FinalRTOUCapOblig = \sum PJMBuyBidMWsCleared - \sum PJMSellOfersCleared$$

The Final Zonal Unforced Capacity Obligation is determined for each zone and is equal to zonal allocation of the Final RTO Unforced Capacity Obligation. The Final RTO Unforced Capacity Obligation is allocated to the zones on a pro-rata basis based on the Final Zonal Peak Load Forecasts.

$$FinalZonalUCAPOblig = \left(\frac{ZonalFinalPeakLoadForecast}{RTOFinalPeakLoadForecast}\right)^{*} FinalRTOUCAPOblig$$

Note:
The Final Zonal Unforced Capacity Obligations are posted after the clearing of the final Incremental Auction for the Delivery Year.

7.3 RPM Zonal Scaling Factors

RPM Zonal Scaling Factors are calculated as a result of RPM Auctions and are constant for the Delivery Year. The following RPM Zonal Scaling Factors are determined:

- Base Zonal Scaling Factors – determined for each zone after the clearing of the Base Residual Auction
- Final Zonal Scaling Factors –determined for each zone with the clearing of the final Incremental Auction.

These scaling factors account for (1) load growth from a prior-year summer to the Delivery Year; (2) any excess resources procured above those required to exactly meet the FPR requirements.

The following parameters are values used in the determination of RPM Zonal Scaling Factors:

- RTO Unforced Capacity Obligation (Base & Final)
- Zonal Peak Load Forecasts (ZPLF) (Preliminary & Final)
- Forecast Pool Requirement (FPR)
- Zonal Weather Normalized Summer Peaks (ZWNSP)

The purpose of RPM Zonal Scaling Factors is to determine the LSE Daily UCAP Obligations in the zones from the Daily Obligation Peak Loads.

7.3.1 Zonal Weather Normalized Summer Peaks

To account for the load growth from a prior-year summer to each Delivery Year, PJM determines Zonal Weather Normalized Summer Peaks by October 31 prior to the start of the

Delivery Year. The Zonal Weather Normalized Summer Peaks are calculated in accordance with the ***Load Forecasting & Analysis Manual (M-19)***.

The RTO Weather Normalized Summer Peak is the sum of the Zonal Weather Normalized Coincident Summer Peaks.

The Electric Distribution Company (EDC) is responsible for allocating the Zonal Weather Normalized Summer Peak for the summer prior to the Delivery Year and providing to PJM an Obligation Peak Load allocation for each Capacity Exchange defined "area" within their zone by December 31 prior to the start of the Delivery Year. See ***Reliability Assurance Agreement Schedule 8, Section A and Generator Operational Requirements Manual (14-D), Appendix A*** for the limitations in the netting of operating Non-Retail Behind the Meter Generation against wholesale area load.

7.3.2 Base Zonal RPM Scaling Factor

A Base Zonal RPM Scaling Factor is determined for each zone and is equal to the [(Preliminary Zonal Peak Load Forecast for the Delivery Year divided by the Zonal Weather Normalized Summer Peak for the summer four years prior to the Delivery Year)* ((RTO Unforced Capacity Obligation Satisfied in Base Residual Auction divided by the (RTO Preliminary Peak Load Forecast * the Forecast Pool Requirement))]. Zonal peak load is adjusted for peak loads of zone/areas that elected FRR option.

$$BaseZonalRPMScalingFactor = \left(\frac{PrelimZPLF}{ZWNSP_{(DY-4)}}\right) * \left(\frac{RTOUCAPOblig_{BRA}}{RTOPrelimPeakLoadForecast * FPR}\right)$$

Note:
Base Zonal RPM Scaling Factors are posted with the Base Residual Auction results.

7.3.3 Final Zonal RPM Scaling Factor

The Final Zonal RPM Scaling Factors are used in determining an LSE's Daily Unforced Capacity Obligation. A Final Zonal RPM Scaling Factor for a zone is equal to the Final Zonal Unforced Capacity Obligation divided by (FPR times the Zonal Weather Normalized Peak for the summer prior to the Delivery Year).

$$FinalZonalRPMScalingFactor = \frac{FinalZonalUCAPOblig}{FPR * ZWNSP_{DY-1}}$$

7.4 Obligation Peak Load

Obligation Peak Load is the peak load value on which LSEs' Unforced Capacity Obligations are based. Each PJM Electric Distribution Company (EDC) is responsible for allocating its

normalized previous summer's peak to each customer in the zone (both retail and wholesale). LSE Obligation Peak Load represents the summation of Peak Load Contributions for each of an LSE's customers.

The following business rules apply to Delivery Year Obligation Peak Load data for a zone/area:

- The Obligation Peak Load allocation for a zone/area is constant and effective for the entire Delivery Year.
- The EDC is also responsible for allocating the Obligation Peak Load for a zone/area among end-use customers by calculating Peak Load Contributions (i.e., "capacity tickets") for each end-use customer by December 31 prior to the start of the Delivery Year.
- The EDC must make Peak Load Contribution information available to LSEs by December 31 prior to the start of the Delivery Year.
- Non-dispatched charging energy for Energy Storage Model Participants and Open-Loop Hybrid Resources shall not be allocated a Peak Load Contribution value in accordance with Manual 27.

7.5 Daily Unforced Capacity Obligations

The following business rules apply to daily Obligation Peak Load data used in determining LSE Daily Unforced Capacity Obligations:

- The EDC is responsible for uploading Obligation Peak Load data into Capacity Exchange for every LSE serving load in their zone/area during the Delivery Year. The file upload must be performed in accordance with Capacity Exchange's file format specifications and by the file upload deadline (36 hours before the start of the operating day). Corrections to Obligation Peak Load data may be made up to 12:00 PM Eastern Prevailing Time of the next business day following the Operating Day.
- The daily sum of all the LSEs' Obligation Peak Load data in a zone/area must equal the EDC's Obligation Peak Load allocation to the zone/area.
- A Daily Obligation Peak Load Scaling Factor will be used to scale the uploaded LSE Obligation Peak Load values to the fixed Obligation Peak Load Allocation of the zone/area in the event that the Obligation Peak Load values uploaded by the EDC do not exactly sum to the Annual Obligation Peak Load Allocation for the zone/area.

$$DailyObligPeakLoadScalingFactor = \frac{AnnualZoneAreaObligPeakLoadAllocation}{\sum ZoneAreaObligPeakLoadUploads}$$

- The daily sum of the Obligation Peak Load data for all areas in a zone must equal the Zonal Weather Normalized Summer Peak for the summer prior to the Delivery Year.

The Daily Unforced Capacity Obligation of an LSE in a zone/area equals the LSE's Obligation Peak Load in the zone/area * the Final Zonal RPM Scaling Factor * the Forecast Pool Requirement.

*DailyUCAPOblig = ObligPeakLoad*FinalZonalPRMScalingFactor*FPR*

7.6 Process for Determining Load Obligations

The process that was described in the previous sections is illustrated below.

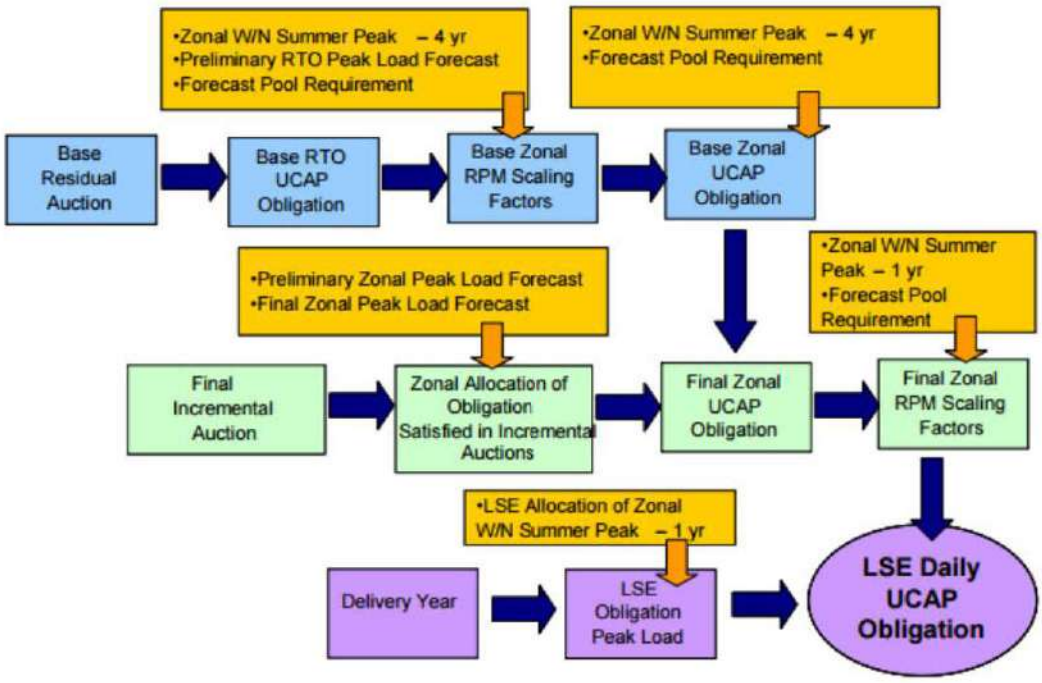


Exhibit 3: Process for determining Load Obligations

7.7 Treatment of Non-Zone Load

Non-Zone Load is the load that is located outside of the PJM Region served by a PJM Load Serving Entity using PJM internal resources. Non-Zone Load is included in the load of the Zone from which the load is served.

The following are business rules that apply to Treatment of Non-Zone Load:

- Non-Zone Load may be Non-Zone Network Load (Tariff 1.27B) that is charged a Network Integration Transmission Service (NITS) charge (Tariff Attachment H-A) or other load that may be 'grandfathered' from the NITS charge.
- PJM forecasts the Preliminary Non-Zone Load for the RPM Delivery Year and includes it in the Preliminary RTO Forecast Peak Load and the Preliminary Zonal Forecast Peak Load

of the Zone from which the Non-Zone Load is served, by February 1 prior to the Base Residual Auction.

- Non-Zone Load cannot be served in a Delivery Year using resources committed to RPM if it is not included in the Preliminary RTO Forecast Peak Load and the Preliminary Zonal Forecast Peak Load prior to the RPM Base Residual Auction for the Delivery Year.
- PJM forecasts the final Non-Zone Load for the RPM Delivery Year and includes it in the Final RTO Forecast Peak Load and the Final Zonal Forecast Peak Load that is posted by January prior to the Final Incremental Auction.
- EDC that is responsible to determine the Obligation Peak Loads for the Zone will also establish the Obligation Peak Load associated with the Non-Zone Load by December 31 prior to the start of the Delivery Year.
- Non-Zone load will be modeled as a defined "area" in the zone from which it is served in the Capacity Exchange system.

The LSE serving the Non-Zone Load will be assessed a Daily Unforced Capacity Obligation and will be responsible to pay an RPM Locational Reliability Charge.

Section 8: Resource Performance Assessments

Welcome to the *Resource Performance Assessments* section of the ***PJM Manual for the PJM Capacity Market***. In this section, you will find the following information:

- An overview description of the resource performance assessments (see "Overview of Resource Performance Assessments")
- The business rules for determining RPM commitment compliance (see "RPM Commitment Compliance")
- The business rules for determining generating unit peak-hour availability (see "Generating Unit Peak-Hour Availability")
- The business rules for determining Non-Performance Assessment (see "Non-Performance Assessment")
- The business rules for assessing compliance with Summer/Winter capability testing (see "Summer/Winter Capability Testing")
- The business rules for determining load management test compliance (see "Load Management Test Compliance"
- The business rules for replacement resources ("see "Replacement Resources")

8.1 Overview of Resource Performance Assessments

The PJM Capacity Market is designed to ensure that capacity market prices are consistent with system reliability metrics. All LSEs must satisfy their capacity obligation either through the RPM or through the FRR Alternative. If a resource receives capacity payments, or in the case of FRR Alternative, is committed to directly satisfy load obligation requirements, there is an expectation that the resource will honor their commitments and provide reliability services when required. The following performance assessments provide the means to assess whether or not a resource honored their commitments and provided the expected reliability services during the Delivery Year.

- RPM Commitment Compliance
- Generation Operational Testing
- Summer/Winter Capacity Testing
- Non-Performance Assessment
- Load Management Test Compliance
- EE Measurement & Verification (M &V) Audit (see Manual 18-B)

Collectively, the performance assessments provide consumers, who have paid for a high level of reliability through their capacity market payments, with reasonable assurance that the resources committed to RPM or FRR Alternative will perform at adequate levels during the

Delivery Year. Since failure to perform in a performance assessment results in deficiency or penalty charges, resource providers are incented to ensure that their committed resources perform during the Delivery Year in order to limit their exposure to deficiency or penalty charges.

A resource will have an RPM Resource Commitment if the resource cleared or received make-whole payments through an RPM Auction or if the unit was specified as a replacement resource or as the source of a Locational UCAP transaction. A resource will have an FRR Capacity Plan commitment if the unit was included in an FRR Capacity Plan. Portions of the resource that do not have an RPM Resource Commitment or FRR Capacity Plan Commitment during the Delivery Year are not subject to resource performance assessments and the associated deficiency/penalty charges.

The performance assessments are not applicable to all types of resources committed to RPM or FRR Alternative. The following matrix provides an overview of the applicability of resource performance assessments.

Assessment	Generation (except Variable Resources)	Variable Resources	DR	EE	QTU
RPM Commitment Compliance	X	X	X	X	X
Generation Operational Test	X				
Summer/Winter Capability Testing	X				
Load Management Test Compliance			X		
M&V Audit				X	
Non-Performance Assessment	X	X	X	X	X

8.2 RPM Commitment Compliance

A resource committed to RPM is expected to be able to deliver unforced capacity during the Delivery Year that is equal to or greater than the unforced capacity committed through RPM Auctions or through the specification of replacement capacity. RPM Commitment Compliance is evaluated daily during the Delivery year on a resource-specific basis to determine if a party

satisfied their Daily RPM Resource Commitments on their generation resources, demand resources, and Qualifying Transmission Upgrades (QTUs).

A resource or portion of a resource committed to the FRR Alternative is not subject to RPM Commitment Compliance. Instead of unit-specific commitment compliance, FRR Entities are subject to daily unforced capacity obligation compliance.

8.2.1 Generation

A generation resource provider may be unable to satisfy their RPM Resource Commitments during the Delivery Year due to the following reasons:

- Unit cancellations and delays – A planned generation is cancelled or delayed and does not commence Interconnection Service prior to the start of the Delivery Year.
- Unit deratings and retirements – The generation resource is derated (through a Capacity Modification decrease) prior to or during the Delivery year. (Retirements result in derating the installed capacity value of a unit to zero MWs through a Capacity Modification decrease in the Capacity Exchange system).
- Accredited UCAP Factor decreases – The final Accredited UCAP Factor for a generation resource for the Delivery Year results in fewer UCAP MW on the resource than that cleared in RPM Auctions for the Delivery Year.

During the Delivery Year, failure to meet generation resource commitments will be determined by comparing a party's Daily RPM Generation Resource Position to their Daily RPM Resource Commitments for such resource. If a party's Daily RPM Generation Resource Position is less than their Daily RPM Resource Commitments for such resource on a delivery day, a Daily Capacity Resource Deficiency Charge will be assessed on the RPM Commitment Shortage.

A party's Daily RPM Generation Resource Position for a specific unit is equal to the (Daily ICAP Owned – Daily FRR Capacity Plan Commitments – Daily Unoffered ICAP)*(Accredited UCAP Factor).

$$DailyRPMPostion_{GEN} = (DailyICAPOwned - DailyFRRCommitments - DailyUnofferICAP) * (Accredited\ \ UCAP\ \ Factor)$$

A party's Daily RPM Resource Commitments for a specific generating unit are calculated by adding the sum of any UCAP Cleared plus UCAP Make-whole for such unit in RPM Auctions to decreases/increases of RPM Commitments due to approved unit-specific bilateral sales/ purchases of cleared capacity and the specification of replacement resources.

A party's Daily RPM Commitment Shortage for a specific unit is calculated as Daily RPM Resource Commitments minus Daily RPM Generation Resource Position. A positive Daily RPM Commitment Shortage represents a failure to meet the RPM resource commitments.

$$DailyRPMCommitmentShortage_{GEN} = DailyRPMCommitments - DailyRPMPosition_{GEN}$$

8.2.2 Demand Resources

A demand resource provider may be unable to satisfy their RPM Resource Commitments during the Delivery Year due to the following reasons:

- Load management program cancellation or delay– The load management program(s) associated with the planned demand resource is cancelled or delayed and is not installed prior to the start of the Delivery Year.
- Decrease in nominated value of demand resource – The final nominated value of the demand resource during the Delivery Year is less than the nominated value of the demand resource used in cleared offers in RPM Auctions for the Delivery Year due to a decrease in the peak load contributions (i.e., capacity tickets) of end-use customers providing the actual load response.
- Failure to have enough sites registered and approved in the DR Hub system prior to the start of the Delivery Year to support the nominated value of the demand resource committed for such Delivery Year. The sites registered and approved in the DR Hub system must be of the Capacity Performance product-type and sufficient to support the summer and non-summer commitments on the Demand Resource.
- Decrease in the Forecast Pool Requirement or ELCC Class Rating- The final UCAP value of the demand resource during the Delivery Year is determined based on the final FPR for the Delivery Year (prior to the 2025/2026 Delivery Year) or the final applicable ELCC Class Rating (starting with the 2025/2026 Delivery Year). Decreases in either of these factors can result in a final UCAP value being less than the UCAP MW cleared by the demand resource in RPM Auctions for the Delivery Year.
- During the Delivery Year, failure to meet demand resource commitments will be determined by comparing a party's Daily RPM Demand Resource Position to their Daily RPM Resource Commitments for such resource. If a party's Daily RPM Demand Resource Position is less than their Daily RPM Resource Commitments for such resource on a delivery day, a Daily Capacity Resource Deficiency Charge will be assessed on the RPM Commitment Shortage.

Through the 2024/2025 Delivery year, a party's Daily RPM Demand Resource Position for a specific demand resource is equal to the (Daily ICAP Owned – Daily FRR Capacity Plan Commitments) * Forecast Pool Requirement.

$$DailyRPMPosition_{DR} = (DailyICAPOwned - DailyFRRCommitments) * FPR$$

Starting with the 2025/2026 Delivery Year, a party's Daily RPM Demand Resource Position for a specific demand resource is equal to the (Daily ICAP Owned - Daily FRR Capacity Plan Commitments) * applicable ELCC Class Rating.

$$DailyRPMPosition_{DR} = (DailyICAPOwned - DailyFRRCommitments) * applicable\ ELCC\ Class\ Rating$$

A party's Daily ICAP Owned for a specific demand resource is equal to Daily Nominated DR Value adjusted for the ICAP amounts transacted through a party's approved unit-specific bilateral sales/purchases for such demand resource in effect for such day. The Daily Nominated Value of a Demand Resource for a Delivery Year is based on confirmed registrations in "completed" status linked to such Demand Resource in the DR Hub system. The Daily Nominated Value of a Demand Resource is determined for summer period of June through October and May of Delivery Year and non-summer period of November through April of Delivery Year based on information provided in the linked Capacity Performance registrations in the DR Hub system.

A party's Daily RPM Resource Commitments for a specific demand resource are calculated by adding the sum of any UCAP Cleared plus UCAP Make-whole for such demand resource in RPM Auctions to decreases/increase of RPM Resource Commitments due to the specification of replacement resources or use of such demand resource in a Locational UCAP transaction.

A party's Daily RPM Commitment Shortage for a specific demand resource is calculated as Daily RPM Resource Commitments minus Daily RPM Demand Resource Position. A positive Daily RPM Commitment Shortage represents a failure to meet the RPM resource commitments.

$$DailyRPMCommitmentShortage_{DR}$$
$$= DailyRPMCommitments - DailyRPMPosition_{DR}$$

Existing demand resources that offered and cleared in Base Residual Auction, First Incremental Auction, or Second Incremental Auction can receive relief from deficiency charges if they failed to meet their RPM Resource Commitments due to a decrease in Peak Load Contributions (i.e., "capacity ticket(s)") that were due to the permanent departure of load from the transmission system (e.g., plant closure, efficiency gains, or similar reasons) that was relied upon for load response. The resource provider of the existing Demand Resource must provide PJM with all information deemed necessary by PJM to assess the merits of the request for relief.

Request for relief from deficiency charges must be made no later than two weeks in advance of the opening of the Third Incremental Auction. Failure to maintain Demand Resources will not permit relief. If relief from deficiency charges is granted, the resource provider will receive a reduction in their RPM Auction Credits and a reduction in their RPM Resource Commitments. Any reduction in Auction Credits is factored into the calculation of the Final Zonal Capacity Price. There is no relief from deficiency charges for existing Demand Resources that offered and cleared in a Third Incremental Auction.

8.2.3 Energy Efficiency Resources:

An EE resource provider may be unable to satisfy their RPM Resource Commitments during the Delivery Year due to the following reasons:

- Energy efficiency installation cancellation or delay– The energy efficiency installation(s) associated with the planned EE Resource is cancelled or delayed and is not installed prior to the start of the Delivery Year.

- Decrease in Nominated EE value or Capacity Performance Value of EE Resource – The final nominated value or final Capacity Performance value of the energy efficiency resource for the Delivery Year is less than the Nominated value or Capacity Performance Value that was used as the basis of the energy efficiency resource cleared offers in RPM Auctions for the Delivery Year due to a change in number of planned installations associated with the planned EE Resource, change in EDC loss factor, or change due to post-installation measurement and verification activities, or reduction in nominated value due to failure to meet the precision standard requirement for measurement and verification activities in accordance with the PJM Manual for Energy Efficiency Measurement & Verification.

During the Delivery Year, failure to meet EE Resource commitments will be determined by comparing a party's Daily RPM EE Resource Position to their Daily RPM Resource Commitments for such resource. If a party's Daily RPM EE Resource Position is less than their Daily RPM Resource Commitments for such resource on a delivery day, a Daily Capacity Resource Deficiency Charge will be assessed on the RPM Commitment Shortage.

A party's Daily RPM EE Resource Position for a specific EE resource is equal to the (Daily ICAP Owned – Daily FRR Capacity Plan Commitments) * Forecast Pool Requirement).

$$DailyRPMPosition_{EE} = (DailyICAPOwned - DailyFRRCommitments) * FPR$$

A party's Daily ICAP Owned for a specific EE Resource is equal to the initial ICAP Owned set by PJM through "Approved" EE Modifications, adjusted for any ICAP amounts transacted through a party's approved unit-specific bilateral sales/purchases for such EE Resource in effect for such day.

A party's Daily RPM Resource Commitments for a specific EE resource are calculated by adding the sum of any UCAP Cleared plus UCAP Make-whole for such EE resource in RPM Auctions to decreases/increases of RPM Resource Commitments due to the specification of replacement resources or use of such EE resource in a Location UCAP transaction.

A party's Daily RPM Commitment Shortage for a specific EE resource is calculated as Daily RPM Resource Commitments minus Daily RPM EE Resource Position. A positive Daily RPM Commitment Shortage represents a failure to meet the RPM resource commitments.

$$DailyRPMCommitmentShortage_{EE} = DailyRPMCommitments - DailyRPMPosition_{EE}$$

8.2.4 Qualifying Transmission Upgrade (QTU):

A provider of a Qualifying Transmission Upgrade may be unable to satisfy their RPM Resource Commitments during the Delivery Year due to the following reasons:

- Upgrade cancellations and delays– A qualifying transmission upgrade is cancelled or delayed and does not commence Interconnection Service prior to the start of the Delivery Year.

During the Delivery Year, failure to meet qualifying transmission upgrade commitments will be determined by comparing a party's Daily RPM QTU Position to their Daily RPM Resource Commitments for such upgrade. If a party's Daily RPM QTU Position is less than their Daily RPM Resource Commitments for such upgrade on a delivery day, a Transmission Upgrade Delay Penalty will be assessed on the RPM Commitment Shortage.

A party's Daily RPM QTU Position for a Qualifying Transmission Upgrade is equal to the approved incremental import capability value into the Sink LDA from a Source LDA for such upgrade.

A party's Daily RPM Resource Commitments for a specific Qualifying Transmission Upgrade are calculated by adding the sum of any UCAP Cleared plus UCAP Make whole for such qualifying transmission upgrade in RPM Auctions to decreases of RPM Resource Commitments due to the specification of replacement resources.

A party's Daily RPM Commitment Shortage for a Qualifying Transmission Upgrade is calculated as Daily RPM Resource Commitments minus Daily RPM QTU Position. A positive Daily RPM Commitment Shortage represents a failure to meet the RPM resource commitments.

$$DailyRPMCommitmentShortage_{QTU} = DailyRPMCommitments - DailyRPMQTUPosition$$

8.3 Commitment Level Used in Summer/Winter Capability Tests (Through the 2024/2025 Delivery Year)

Since the RPM Resource Commitments or FRR Capacity Plan Commitments on a unit can vary daily during the delivery year, a Total Unit ICAP Commitment Amount (TUICA) is calculated for each unit and used as the basis for assessing the performance of a unit for summer/winter capability tests through the 2024/2025 Delivery Year.

Since replacement resources can be specified anytime during the Delivery Year, the Total Unit ICAP Commitment Amount is not finalized until after the conclusion of the Delivery Year.

The Total Unit ICAP Commitment Amount on a specific unit is equal to the lesser of (a) the Unit Average Daily ICAP Commitment Amount for the Delivery Year[23] or (b) maximum Summer Net Dependable Rating of the Unit during the Delivery Year.

$$TUICA = lesser\ of\ (UnitAvgDailyICAPCommitment_{GEN},\ Max\ DYSummerRating)$$

The Unit Average Daily ICAP Commitment Amount on a specific unit for the Delivery Year is equal to the (sum of all Daily RPM Resource Commitments on such unit for the Delivery Year

[23] For days in which unit's Daily ICAP Commitment is greater than Daily ICAP Owned, Daily ICAP Owned is used in determining Unit Average Daily ICAP Commitment for DY.

divided by one minus the Effective EFORd plus the sum of all Daily FRR Capacity Plan Commitments on such unit for the Delivery Year) divided by 365 days (or 366 days).

$$UnitAvgDailyICAPCommitment_{GEN} =$$

$$\frac{\left(\frac{\sum DailyRPMCommitment}{1 - EffectiveEFORd}\right) + \sum DailyFRRCommitment}{365\ (or\ 366)\ days}$$

Since a single unit can have both RPM Commitments and FRR Capacity Plan Commitments during the Delivery Year, a Unit Average Daily FRR ICAP Commitment Amount and Unit Average Daily RPM ICAP Commitment Amount for the Delivery Year are calculated for each unit.

The Unit Average Daily FRR ICAP Commitment Amount on a specific unit for the Delivery Year is equal to the sum of all Daily FRR Capacity Plan Commitments on such unit for the Delivery Year) divided by 365 days (or 366 days).

$$UnitAvgDailyFRRICAPCommitment = \frac{\sum DailyFRRCommitment}{365\ (or\ 366)\ days}$$

The Unit Average Daily RPM ICAP Commitment Amount on a specific unit for the Delivery Year is equal to the Total Unit ICAP Commitment Amount less the Unit Average Daily FRR ICAP Commitment Amount.

$$UnitAvgDailyRPMICAPCommitment_{GEN} =$$

$$TUICA - UnitAvgDailyFRRICAPCommitment$$

Since a single unit can be committed by multiple parties, a Provider's Average Daily FRR ICAP Commitment Amount, Provider's Average Daily RPM ICAP Commitment Amount, and Provider's Share of Total Unit ICAP Commitment Amount for each unit is calculated in order for PJM to allocate any unit shortfalls calculated for, summer/winter capability testing.

A Provider's Average Daily FRR ICAP Commitment Amount on a specific unit for the Delivery Year is equal to the sum of the Provider's Daily FRR Capacity Plan Commitments on such unit for the Delivery Year) divided by 365 (or 366 days).

$$ProviderAvgDailyFRRICAPCommitment_{GEN} =$$

$$\frac{\sum ProviderDailyFRRCommitment}{365\ (or\ 366)\ days}$$

A Provider's Average Daily RPM ICAP Commitment Amount on a specific unit for the Delivery Year is equal to the sum of the Provider's Daily RPM Resource Commitments on such unit the Delivery Year divided by the sum of all Daily RPM Resource Commitments on such unit for the Delivery Year, multiplied by the Unit Average Daily RPM ICAP Commitment Amount.

$$ProviderAvgDaily\ RPMICAPCommitment_{GEN} =$$

$$\frac{(\sum ProviderDailyRPMCommitments}{\sum TotalDailyRPMCommitments)} * UnitAvgDailyRPMICAPCommitment_{GEN}$$

A Provider's Share of the Total Unit ICAP Commitment Amount on a specific unit for the Delivery Year is equal to the Provider's Average Daily FRR ICAP Commitment Amount plus the Provider's Average Daily RPM ICAP Commitment Amount.

$$ProviderShareTUICA_{GEN} =$$

$$ProviderAvgDailyFRRICAPCommitment + ProviderAvgDailyRPMICAPCommitment$$

8.4 Deleted

8.4A Non-Performance Assessment

A Non-Performance Assessment[24] will assess performance of resources during emergency conditions. Non-Performance Assessment applies to Capacity Performance Resource commitments and Price Responsive Demand commitments. Capacity Performance Resource commitments and PRD commitments are exposed to Non-Performance Charges for under-performance during Emergency Actions throughout the entire Delivery Year. Resources that fail to perform are subject to Non-Performance Charge and resources that over-perform may be eligible for Bonus Performance Credit.

The Non-Performance Assessment will compare each Capacity Resource's Expected Performance against its Actual Performance for each Performance Assessment Interval. Performance Assessment Interval shall mean each Real-time Settlement Interval for which an Emergency Action as defined in the OATT has been declared by PJM. A Performance Assessment Interval is triggered based on either of the two conditions defined below and such condition must be in effect for the entire Real-time Settlement Interval.

- Condition 1 - A Primary Reserve Shortage is determined for the Reserve Zone or active Reserve Sub-zone and one of the following emergency procedures is issued that encompasses such Reserve Zone or active Reserve Sub-zone:
  - Voltage Reduction Warning and Reduction of Non-Critical Plant Load
  - Manual Load Dump Warning
  - Maximum Emergency Generation Action
  - Voltage Reduction Warning and Curtailment of Non-Essential Building Load

The following table illustrates which resources will be assessed for a PAI based on the location of the resource and the location of the above Emergency Procedure and location of the Primary Reserve Shortage

24 OATT, Attachment DD, Section 10A

		Primary Reserve Shortage			
Condition 1 Emergency Procedures		Reserve Zone (RTO)	Reserve Subzone (MAD)	Reserve Zone and Reserve Subzone (RTO & MAD)	None
	Reserve Zone (RTO)	RTO	MAD	RTO	None
	Reserve Subzone (MAD)	None	MAD	MAD	None
	None	None	None	None	None

- Condition 2 - One of the following emergency procedures is issued for the entire Reserve Zone or Sub-Zone:
  - Deploy All Resources Action
  - Voltage Reduction Action
  - Manual Load Dump Action
  - Load Shed Directive

See Manual 13 for details on the issuance of emergency procedures and Manual 11 for detail on Primary Reserve Shortage which is determined when the reserve MW assigned in the dispatch run is less than the Primary Reserve requirement for either the Reserve Zone or active Reserve Sub-zone.

When assessment is for the Reserve Sub-zone, the list of resources subject to assessment is determined based on the active subzone bus and resource list effective at the time of the PAI. The posting is found on the Ancillary Service page of PJM.com. DR/PRD dispatched and located in the Reserve Sub-zone will be included in the Reserve Sub-zone assessment.

If the Emergency Action area is for the Reserve Zone, Net Energy Imports are included in this assessment. External Generation Capacity Resources are included in the assessment if such external resource would have helped resolve the declared Emergency Action that was the subject of the assessment. At the start of the Delivery Year, PJM will inform the Capacity Market Seller of an external resource as to which Locational Deliverability Area it has been assigned for Non-Performance Assessment purposes. QTUs will be deemed to be located in the LDA into which such upgrade increased the CETL and the QTU will be included in the Non-Performance Assessment only if, and to the extent that, the declared Emergency Action encompasses only the LDA into which the upgrade increased the CETL.

For each Performance Assessment Interval, the Actual Performance and the Expected Performance is used to calculate a Performance Shortfall that determines both the Non-Performance Charge and Bonus Performance Credit applicability.

For each Performance Assessment Interval, the Actual Performance is equal to:

- for each generation resource (including External Generation Capacity Resources when applicable), the metered output of delivered energy plus the resource's real-time reserve or regulation assignment[25], if any; however, the resulting MW quantity is floored at 0 MW;
- for each Demand Resource, the demand response provided plus the resource's real-time reserve or regulation assignment, if any;
- for each Energy Efficiency Resource, the load reduction quantity approved by PJM subsequent to the pre-delivery year submittal of a post-installation M&V Report;
- for each entity providing Net Energy Imports during a PJM-wide event, the Net Energy Import quantity excluding any energy delivered from External Generation Capacity Resources ;
- for each Qualified Transmission Upgrade, the cleared MW quantity of the QTU if it is in-service prior to the start of the day of the Performance Assessment Interval, and zero if it is not in-service prior to the start of such day; and,
- For each PRD Provider, the Actual Performance is calculated in accordance with Section 3A.6.2A.

For each Performance Assessment Interval, the Expected Performance is equal to:

- for each generation resource (including External Generation Capacity Resources when applicable), the resource's committed Unforced Capacity times the ratio[26] of [(total amount of Actual Performance for all generation resources, plus net energy imports[27], plus total Demand Response Bonus Performance for that interval, plus total PRD Bonus Performance for that interval / (total amount of committed Unforced Capacity of all Generation Capacity Resources)];
- for each Demand Resource and Energy Efficiency Resource, the resources' committed capacity without making any adjustment for the Forecast Pool Requirement (i.e., the actual load reduction quantity the resource committed to provide);
- for each Qualified Transmission Upgrade, the committed MW quantity; and,
- for each PRD Provider, the Expected Performance is calculated in accordance with Section 3A.6.2A.

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[25] The metered output of jointly owned generation resources is allocated to each owner pro-rata with each owner's share of the total Installed Capacity of the resource.

[26] This ratio will be capped at 1.

[27] Net Energy Imports are only included in this formula for PJM-wide emergency events.

The Performance Shortfall for a resource or PRD Provider is calculated as Expected Performance minus the Actual Performance. If the Performance Shortfall for such resource or PRD Provider is a positive number, the under-performing resource or PRD Provider is subject to a Non-Performance Charge. If the Performance Shortfall is a negative number, the over-performing resource or PRD Provider may be eligible for Bonus Performance Credit.

For generation resources with a positive Performance Shortfall amount, the Performance Shortfall may be adjusted downward due to exempt MWs. Exempt MWs consist of the following:

- Unavailable MWs associated with a generator's approved planned or maintenance outage during the Performance Assessment Interval;
- MWs for which the resource was not scheduled to operate by PJM; or
- MWs for which the resource was on-line but was scheduled down by PJM based on the determination by PJM that such scheduling action was appropriate to the security constrained economic dispatch of the PJM Region[28].
- If such resource was needed by PJM and would otherwise have been scheduled by PJM to perform, but was not scheduled to operate, or was scheduled down solely due to (1) any operating parameter limitations submitted in the resource's offer or (2) submission of a market-based offer higher than its cost-based offer, then these MWs will not be considered exempted and will not result in a downward adjustment to the Performance Shortfall.
- For purposes of the Non-Performance Assessment for demand resources, compliance will be measured in accordance with Section 8.6 of this manual.
- During the Performance Shortfall calculation and the exempt MW determination, PJM will ensure that each energy offer complies with Manual 11, Section 2.3.7 and has the required associated information. If this information is not included, then no MWs will be exempt.

For purposes of calculating Bonus Performance quantity, the Actual Performance for a dispatchable resource shall not exceed the MW level at which such resource was scheduled and dispatched by PJM during the Performance Assessment Interval[29]. During the Bonus Performance quantity calculation, PJM will ensure that each energy offer complies with Manual 11, Section 2.3.7 and has the required associated information associated. If this information is not included, then the Bonus Performance quantity will be zero. For self-scheduled generation resources not dispatchable by PJM, the Actual Performance will not exceed the LMP Desired MW value as calculated by PJM based upon the higher of the cost or price schedules submitted for the resource, and will be zero if the LMP Desired MW is less than the lowest point on the higher of the cost or price schedules submitted for the resource.

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[28] Scheduled MW appropriate to the security constrained economic is determined based on the results of the Dispatch Run described in Manual 11

[29] Scheduling and dispatch shall be determined based on the results of the Dispatch Run described in Manual 11

The interval Non-Performance Charge is calculated as Performance Shortfall multiplied by the Non-Performance Charge Rate. The Non-Performance Charge Rate for Capacity Performance commitments is equal to {[the modeled LDA through the 25/26 DY, otherwise the RTO Net CONE ($/MW-day in installed capacity terms) for which the resource resides times number of days in the Delivery Year] divided by 30} divided by the number of Real-Time Settlement Intervals in an hour. The modeled LDAs and their respective Net CONE are provided in the Delivery Year BRA Planning Parameters posted on the PJM website.

Through the 2024/2025 Delivery Year, for Capacity Performance Resources or PRD Providers, the maximum yearly Non-Performance Charge is 1.5 times the modeled LDA Net CONE ($/MW-day in installed capacity terms) in which the resource resides times number of days in Delivery Year times the maximum daily unforced capacity committed by the resource or PRD Provider during June 1 of the Delivery Year through the end of the billing month for which the Non-Performance Charge was assessed. For Seasonal Capacity Performance Resources, the maximum yearly Non-Performance Charge is based the number of days of the applicable season and the maximum daily unforced capacity committed by the resource for such season. The modeled LDAs and their respective Net CONE are provided in the Delivery Year BRA Planning Parameters posted on the PJM website.

Effective with the 2025/2026 Delivery Year for Capacity Performance Resources or PRD Providers, the maximum yearly Non-Performance Charge is 1.5 times the RPM Base Residual Auction clearing price applicable to the modeled LDA in which the resource resides times number of days in Delivery Year times the maximum daily unforced capacity committed by the resource or PRD Provider during June 1 of the Delivery Year through the end of the billing month for which the Non-Performance Charge was assessed. For Seasonal Capacity Performance Resources, the maximum yearly Non-Performance Charge is based on the number of days of the applicable season and the maximum daily unforced capacity committed by the resource for such season. The modeled LDAs and their respective clearing prices are provided in the Delivery Year BRA results posted on the PJM website

Revenue collected from payment of Non-Performance Charges will be distributed to resources (of any type, even if they are not Capacity Resources) and PRD Providers that perform above expectations. A resource or PRD Provider with Actual Performance above its Expected Performance is considered to have provided Bonus Performance, and will be assigned a share of the collected Non-Performance Charge revenues in the form of a Bonus Performance Credit. This credit is based on the ratio of its Bonus Performance quantity to the total Bonus Performance quantity (from all resources or PRD Providers) for the same Performance Assessment Interval.

The billing of any Non-Performance Charges incurred in any given month will be done within three calendar months after the calendar month that included such Performance Assessment Intervals and such billing of charges will be spread over the remaining months in the Delivery Year. Bonus Performance Credits will follow the same billing methodology as Non- Performance Charges.

For Public Distribution Microgrid Generators that are Generation Capacity Resources:

- If the Public Distribution Microgrid load is reported to PJM as wholesale load when the PDM is islanded, then any islanded generation MWh output that is settled through the PJM energy market counts towards Capacity Performance obligation as Actual Performance.
- If the Public Distribution Microgrid load is not reported to PJM as wholesale load when the PDM is islanded, then any islanded Public Distribution Microgrid Generators should not report their islanded output as PJM supply. In this case, the islanded Public Distribution Microgrid Generator is not available to supply PJM load, and their Actual Performance is zero for the intervals in which the Public Distribution Microgrid is islanded.
- Whether a Public Distribution Microgrid load is or is not reported to PJM as wholesale load when the PDM is islanded, the Expected Performance during a Performance Assessment Interval is what it would have been had the Public Distribution Microgrid Generator still been grid-connected.

Definitions and additional business rules for Public Distribution Microgrids can be found in PJM Manual 14D, Appendix B: Public Distribution Microgrid Business Rules and PJM Manual 14D, Appendix C: Voluntary Guideline on Public Distribution Microgrid Operations.

8.5 Summer/Winter Capability Testing

During the Delivery Year, generation owners are responsible to perform Summer/Winter Net Capability Verification (i.e., Capability Testing) in accordance with ***PJM's Rules and Procedures for Determination of Generating Capability (M-21)*** through the 2024/2025 Delivery Year and M-21B effective with the 2025/2026 Delivery Year and submit test results through the eGADS system. Variable Resources, and variable components of Hybrid Resources, are exempted from the summer/winter capability testing requirement and are not assessed Generation Resource Rating Test Failure Charges. The purpose of the summer/ winter net capability verification is to demonstrate that the unit can achieve the claimed summer/ winter net capabilityrating of the unit. PJM will use the results of the summer/winter net capability testing to assess whether a unit that was committed to RPM or FRR Alternative was able to achieve a Summer/Winter Net Corrected Test Capability value at least equal to the total daily ICAP commitment level on the unit, or non-variable components of a Hybrid Resource. The Summer/Winter Net Corrected Test Capability value of a Hybrid Resource with multiple non-variable resource components will be the sum of the Summer/Winter Net Corrected Test Capability values of the non-variable resource components. The total daily ICAP commitment level of the non-variable component(s) of a Hybrid Resource during the Jun-October and May of the Delivery Year equals the total daily ICAP commitment level of the Hybrid Resource minus the actual 95th percentile hourly summer net output between the hours ending 11AM and 10PM EPT for the variable component(s). The total daily ICAP commitment level of the non-variable component(s) of a Hybrid Resource during November through April of the Delivery Year equals the total daily commitment level of the Hybrid Resource minus the actual 95th percentile hourly winter net output in all hours except for hours beginning 9AM to 5PM EPT for the variable

component(s). Through the 2024/2025 Delivery Year, a unit's total daily ICAP commitment level is measured by the unit's Total Unit ICAP Commitment Amount ("TUICA") which is determined as described in section 8.3 of this manual. Effective with the 2025/2026 Delivery Year, a unit's total daily ICAP commitment level is determined each day of the delivery year and is calculated as the resource's total daily UCAP commitment level divided by the Accredited UCAP Factor of such resource.

In accordance with M-21 and 21B, a Net Capability Test must be performed during both the Summer and the Winter testing periods. The Summer test period begins the first day of June and ends the last day of August. The Winter test period begins the first day of December and ends on the last day of February. If the entire unit is on a forced or planned outage during the entire summer or winter testing period, the unit is expected to submit an out-of-period capability test when the outage ends.

An unlimited number of tests may be performed on the unit during each testing period. If none of the tests certify full delivery of the total daily ICAP commitment level, those parties with RPM Resource Commitments and FRR Capacity Plan Commitments from such unit may be subject to Generation Resource Rating Test Failure Charges.

The unit's installed capacity shortfall for the testing period is determined by the test that resulted in the highest installed capacity rating (i.e., the highest Summer/Winter Net Corrected Test Capability as described in ***PJM's Rules and Procedures for Determination of Generating Capability (M-21 and M-21B)***). Through the 2024/2025 Delivery Year, the Unit ICAP Shortfall is determined as described in Section 8.5.1. Effective with the 2025/2026 Delivery Year, the Unit ICAP Shortfall is determined as described in Section 8.5.2. A Unit ICAP Shortfall forms the basis for a Generation Resource Rating Test Failure Charge.

8.5.1 Determination of Unit ICAP Shortfall (through the 2024/2025 Delivery Year)

Through the 2024/2025 Delivery Year, the Unit ICAP Shortfall for the summer/winter testing period is equal to the Total Unit ICAP Commitment Amount minus the highest Summer/Winter Net Corrected Test Capability achieved in a summer/winter capability test.

A positive shortfall indicates a failure to certify the Total Unit ICAP Commitment Amount during the testing period. A negative shortfall indicates that the Total Unit ICAP Commitment Amount was exceeded during the testing period.

The following business rules apply in the determination of the Unit ICAP Shortfall:

- If a unit is on a partial outage during the test, the amount of the partial outage is added to the highest installed capacity rating in the test to determine the Unit ICAP Shortfall for the summer or winter test period.
- The Unit ICAP Shortfall for the summer testing period will be applied daily for the months of June through November of the Delivery Year. The Unit ICAP Shortfall for the winter testing period will be applied daily for the months of December through May of the Delivery

Year. If the Unit ICAP Shortfall as a result of the winter testing period is less than the Unit ICAP Shortfall as a result of the summer testing period, the Unit ICAP Shortfall as a result of the summer testing period will be applied daily for the months of December through May of the Delivery Year.

- If the entire unit is on a forced or planned outage from June 1 to December 1 of the Delivery Year, a Unit ICAP Shortfall for the summer testing period is not calculated.
- If the entire unit is on a forced or planned outage from December 1 – May 31 of the Delivery Year, the Unit ICAP Shortfall for the winter testing period is the calculated Unit ICAP Shortfall for the summer testing period.
- If the winter rating on a unit is less than the summer rating on the unit and the Total Unit ICAP Commitment Amount is greater than the winter rating, the Unit ICAP Shortfall for the winter testing period will be calculated as the winter rating of the unit (instead of the Total Unit ICAP Commitment Amount) minus the highest installed capacity rating achieved in a winter capability test.
- If a unit is exempt from the winter net capability verification requirement the Unit ICAP Shortfall that is calculated as a result of a summer capability test would also apply for the months of December through May of the Delivery Year.
- In the case of hydro generation, the Unit ICAP Shortfall that is calculated as a result of the single capability test submitted is applied for the entire Delivery Year.
- If a daily RPM commitment compliance shortage on a unit occurs due to a unit delay, derating, or retirement during the Delivery Year, the Daily Unit ICAP Shortfall will be reduced by the portion of the daily RPM commitment compliance shortage (in UCAP) due to the unit delay, derating, or retirement divided by one minus the unit's Effective EFORd for the Delivery Year. The Daily Unit ICAP Shortfall for the unit will not be reduced to a value less than zero.[30]

If portions of the unit were committed by multiple Resource Providers, the Daily Unit ICAP Shortfall is allocated to the Resource Providers based on the provider's pro-rata share of the unit's Total Unit ICAP Commitment Amount.

A Provider's Daily ICAP Shortfall for a unit is equal to the Daily Unit ICAP Shortfall times the Provider's Share of Total Unit ICAP Commitment Amount divided by Total Unit ICAP Commitment Amount.

$$ProviderDailyICAPShortfall_{GEN} = \frac{DailyUnitICAPShortfall * ProviderShareTUICA}{TUICA}$$

[30] This implicitly occurs through the calculation of the unit's Total Unit ICAP Amount. For days in which a unit's Daily ICAP Commitment is greater than Daily ICAP Owned, Daily ICAP Owned is used in determining Unit Average Daily ICAP Commitment for the Delivery Year.

If a Resource Provider has both RPM Resource Commitments and FRR Capacity Plan Commitments on the unit, the Provider's Daily ICAP Shortfall for such unit will be separated into a Daily ICAP Shortfall for RPM Resource Commitments and Daily ICAP Shortfall for FRR Capacity Plan Commitments.

A Resource Provider's Daily ICAP Shortfall for RPM Resource Commitments is equal to the Provider's Daily ICAP Shortfall times the Provider's Average Daily RPM ICAP Commitment Amount divided by the Provider's Share of the Total Unit ICAP Commitment Amount.

$$Provider Daily ICAP Shortfall_{RPM} = \frac{Provider Daily ICAP Shortfall_{GEN} * Provider Avg Daily RPM ICAP Commitment}{Provider Share TUICA}$$

A Resource Provider's Daily ICAP Shortfall for FRR Capacity Plan Commitments is equal to the Provider's Daily ICAP Shortfall times the Provider's Average Daily FRR ICAP Commitment Amount divided by the Provider's Share of the Total Unit ICAP Commitment Amount.

$$Provider Daily ICAP Shortfall_{FRR} = \frac{Provider Daily\ ICAP Shortfall_{GEN} * Provider Avg Daily FRR ICAP Commitment}{Provider Share TUICA}$$

A Resource Provider with a positive Daily ICAP Shortfall will be assessed The Generation Resource Rating Test Failure Charge.

8.5.2 Determination of Unit ICAP Shortfall (Effective with the 2025/2026 Delivery Year)

Effective with the 2025/2026 Delivery Year, the Unit ICAP Shortfall is determined for each Generation Capacity Resource (with the exception of Variable Resources) on a daily basis. Each day of the Delivery Year, the Daily Unit ICAP Shortfall is calculated as (i) the installed capacity committed for that day (adjusted for any replacement capacity), minus (ii) the highest Summer/Winter Net Corrected Test Capability determined for the resource in any test during the relevant testing period.

The summer period capability test result submitted in eGADS is used in this determination for each day in the months of June through October and the following May of each Delivery Year, and, winter period capability test result submitted in eGADS is used in this determination for each day in the months of November through April of each Delivery Year.

In the event a resource is eligible for an out of period capability test for the relevant season, as described in **PJM Rules and Procedures for Determination of Generating Capability Manual (M21B)** an updated Unit ICAP Shortfall would be determined based on the out of period test and the updated Unit ICAP Shortfall becomes effective on the date of the out of period test, and extends through the relevant seasonal period.

A positive Unit ICAP Shortfall in any day represents a failure to certify the total daily ICAP commitment amount on such resource through capability testing.

If portions of the unit were committed by multiple Resource Providers, the Daily Unit ICAP Shortfall is allocated to the Resource Providers based on each provider's pro-rata share of the total installed capacity commitment for that day (adjusted for any replacement capacity).

The daily installed capacity committed used for determining a resource's shortfall, or allocating a resource's shortfall to multiple providers, shall be capped at the ICAP Owned for such resource or provider to avoid double counting of shortfalls under the capability testing assessment and commitment compliance.

If a Resource Provider has both RPM Resource Commitments and FRR Capacity Plan Commitments on the unit, the Provider's Daily ICAP Shortfall for such unit will be separated into (i) a Daily ICAP Shortfall for RPM Resource Commitments based on the ratio of the Provider's installed capacity committed to RPM for the day divided by the Provider's total installed capacity committed for the day and (ii) a Daily ICAP Shortfall for FRR Capacity Plan Commitments based on the ratio of the Provider's installed capacity committed to FRR for the day divided by the Provider's total installed capacity committed for the day.

A Resource Provider with a positive Daily ICAP Shortfall will be assessed The Generation Resource Rating Test Failure Charge as described in Section 9.1.5.

8.5A Generation Operational Testing

Effective with the 2025/2026 Delivery Year, Generation Capacity Resources, with the exception of Variable Resources, that are committed to RPM or FRR shall be subject to operational testing initiated by the Office of the Interconnection up to two times in each of the summer and winter seasons during the relevant Delivery Year. The operational testing requirements, retest requirements, and determination of when a shortfall is assessed are found in **Generator Operational Requirements Manual (M14D)**.

When a unit fails a retest of the Generation Operational Test, a Generation Operational Test Failure Charge may be assessed. The Generation Operational Test Failure Charge shall equal the Daily Deficiency Rate multiplied by the applicable daily committed UCAP MW of such Generation Capacity Resource.

The applicable daily committed UCAP MW value subject to the Generation Operational Test Failure Charge will account for:

- any RPM and FRR commitments on the unit;
- any unit modeling differences that may exist between the energy market and capacity market; and
- any portions of the unit that were committed by multiple Capacity Market Sellers, provided, however, a Capacity Market Seller shall not be assessed a Generation Operational Test

Failure Charge to the extent (i.e., for the same megawatts and time period) that such seller is assessed a Capacity Resource Deficiency Charge for such resource.

The Daily Deficiency Rate shall equal the value defined in section 9.1.5A.

8.6 Measuring Compliance during Performance Assessment Interval for Demand Resources

A Capacity Performance Demand Resource is subject to Non-Performance Assessment during a Performance Assessment Interval that occurs during the Delivery Year during the availability window when linked registrations to such Capacity Performance Demand Resource are dispatched by PJM during such Performance Assessment Interval. A Summer-Period Capacity Performance Demand Resource is subject to Non-Performance Assessment during a Performance Assessment Interval that occurs during June through October and May of the Delivery year during the availability window when linked registrations to such Summer-Period Capacity Performance Demand Resource are dispatched by PJM during such Performance Assessment Interval.

Compliance is the process utilized to review Demand Resource performance during a Performance Assessment Interval and establishes a Performance Shortfall or Bonus Performance for such Demand Resource.

Compliance will be measured for each registration dispatched by PJM within the area defined by the Emergency Action for each Performance Assessment Interval. Compliance is measured for partial clock hour dispatch if dispatched for 30 minutes or more of the clock hour. Compliance is not measured if dispatched for less than 30 minutes of the clock hour.

DR Providers are responsible for submittal of compliance information to PJM through the DR Hub System within 45 days after the end of the month in which a Performance Assessment Interval occurred.

PJM verifies compliance on an end-use customer basis by reviewing the data submitted by the DR Provider through the DR Hub system. Load management compliance for non-interval metered residential customers may be verified using a statistical sample of end-use customers in accordance with ***PJM Manual 19: Load Forecasting & Analysis, Attachment D*** and subject to PJM approval.

DR Providers may use substitute registrations of a different resource product type to cover the commitment of non-performing registrations that cannot respond for the Performance Assessment Interval. The non-performing registration(s) and corresponding substitute registration(s) must be in the same geographic location defined by the PJM dispatch instruction with the same designated lead time. In addition, the total nominated value (summer or non-summer, as applicable) of the substitute registration(s) must be comparable (within either +/- 25% or +/- 0.5 MW) to the total nominated value (summer or non-summer, applicable) of the

corresponding non-performing registration(s). DR Providers that use substitute registrations must submit their list of nonperforming registrations and corresponding substitute registrations to PJM by 11:59 pm on the day of the Performance Assessment Interval in the appropriate PJM system. PJM may also request that resource providers submit evidence that notification to respond were sent to substitute registrations in advance or during the Performance Assessment Interval to verify that meter data was not used after the fact in finding the substitutes. Any registration used as a substitute must be included in the submittal of compliance information to the appropriate PJM system. The reduction value(s) of the substitute registration(s) will be used by PJM when measuring compliance during a Performance Assessment Interval for the corresponding non-performing registration(s). Non-performing registration(s) will be considered to have not performed. Registrations used as substitutes during an event will have the same obligation to respond to future event(s) as if it did not respond to such event. A registration may only be used as a substitute for a non-performing registration dispatched for a Performance Assessment Interval in the winter period if the registration provided winter data (Winter Peak Load, winter Firm Service Level, or winter Guaranteed Load Drop data) at the time of registration and meets the criteria outlined above.

For a Firm Service Level (FSL) customer on a registration, the actual load reduction provided for the hour ending that includes a Performance Assessment Interval(s) in the summer period (June through October and May of the Delivery Year) is calculated as the end-use customer's Peak Load Contribution minus (the hourly metered load multiplied by the loss factor). A load reduction will only be recognized if the hourly metered load multiplied by the loss factor is less than the Peak Load Contribution. For the non-summer period (November through April of the Delivery Year), the actual load reduction for a Performance Assessment Interval is calculated as (end-use customer's Winter Peak Load multiplied by Zonal Winter Weather Adjustment Factor multiplied by loss factor) minus (the hourly metered load multiplied by the loss factor). A load reduction will only be recognized if the hourly metered load multiplied by the loss factor is less than the Winter Peak Load multiplied by Zonal Winter Weather Adjustment Factor multiplied by the loss factor.

For a Guaranteed Load Drop (GLD) customer on registration, the actual load reduction provided for the hour ending that includes a Performance Assessment Interval(s) in the summer period is calculated as the lesser of (a) the (comparison load minus the hourly metered load) multiplied by the loss factor or (b) end-use customer's Peak Load Contribution minus (hourly metered load multiplied by loss factor). A load reduction will only be recognized if the hourly metered load multiplied by the loss factor is less than the Peak Load Contribution. For the non-summer period (November through April of the Delivery Year), the actual load reduction for a Performance Assessment Hour is calculated as lesser of (a) (comparison load minus the hourly metered load) multiplied by the loss factor or (b) the end-use customer's Winter Peak Load multiplied by Zonal Winter Weather Adjustment Factor multiplied by loss factor minus (the hourly metered load multiplied by the loss factor). A load reduction will only be recognized if the hourly metered load multiplied by loss factor is less than the Winter Peak Load multiplied by the Zonal Winter Weather Adjustment Factor multiplied by the loss factor.

DR Provider must submit 24 hours of actual load data for the day in which Performance Assessment Interval occurred and for all days required to determine comparison loads. Comparison loads must be developed in accordance with the guidelines included in ***PJM Manual M-19 Load Forecasting & Analysis, Attachment A: Load Drop Estimate Guidelines***, and note which method was employed.

A Load Management customer may not reduce their metered load below zero (i.e., export energy into the system). No compliance credit will be given for the incremental load drop below zero. Hourly load reduction for a registration is floored at 0 MW.

For a partial dispatch clock hour, the Expected Performance of a Demand Resource is not adjusted by the percentage of the hour dispatched. When five-minute revenue meter data is submitted to determine compliance for a Performance Assessment Interval, the actual load reduction for a Performance Assessment Interval is calculated using the five-minute metered load data for such Performance Assessment Interval as opposed to using hourly metered load data. When five- minute revenue meter data is not submitted to determine compliance of a Demand Resource for a Performance Assessment Interval, the actual hourly load reduction for the hour ending that includes a Performance Assessment Interval(s) is flat-profiled over the set of dispatch intervals in the hour. The actual load reduction for a Performance Assessment Interval is calculated as the actual hourly load reduction multiplied by (twelve divided by the number of five-minute intervals the Demand Resource was dispatched in the hour). The actual load reduction for a registration for a Performance Assessment Interval is capped at the Peak Load Contribution of the registration in the summer period and at the Winter Peak Load of the registration multiplied by Zonal Winter Weather Adjustment Factor in the winter period.

For each dispatched registration in the Emergency Action Area, the Actual Performance is equal to the actual load reduction plus any real-time reserve or regulation assignment for such registration for the Performance Assessment Interval. The Actual Performance for a Demand Resource for a Performance Assessment Interval is equal to the sum of the Actual Performance of the dispatched registrations linked to such Demand Resource. If a Demand Resource is owned by multiple parties, the Actual Performance of a Demand Resource shall be allocated to the owners of the Demand Resource based on ICAP ownership share to determine each Capacity Market Seller's Actual Performance for such Demand Resource.

The Expected Performance for the Performance Assessment Interval for a Capacity Market Seller's Demand Resource[31] is equal the Capacity Market Seller's committed capacity on the Demand Resource in installed capacity terms (i.e., the actual load reduction quantity the

[31] The Actual and Expected Performance of dispatched economic registrations are not considered in the performance of a committed Demand Resource. Actual Performance will be calculated for an economic registration in the same way it is calculated for a Pre-Emergency or Emergency registration and such registration may be eligible for Bonus Performance since its Expected Performance will be zero MW.

resource committed to provide), adjusted to account for any linked registrations that were not dispatched by PJM.

The Capacity Market Seller's Expected Performance minus the Actual Performance for a Demand Resource establishes the seller's initial Performance Shortfall for such Demand Resource. A positive initial Performance Shortfall indicates the seller's Demand Resource under-complied for the Performance Assessment Interval. A negative initial Performance Shortfall indicates the seller's Demand Resource over-complied for the Performance Assessment Interval. The Capacity Market Seller's initial Performance Shortfalls for Demand Resources in the Emergency Action Area (EAA) are netted to determine a net EAA Performance Shortfall for the Performance Assessment Interval. Any net positive EAA Performance Shortfall is allocated to the Capacity Market Seller's Demand Resources that under-complied within the EAA on a pro-rata basis based on the under-compliance MWs, and such seller's Demand Resources will be assessed a Performance Shortfall for the Performance Assessment Interval. Any net negative EAA Performance Shortfall is allocated to the Market Seller's Demand Resources that over-complied within the EAA on a pro-rata basis based on over-compliance MWs, and such Market Seller's Demand Resources will be assessed Bonus Performance.

8.7 Load Management Test Compliance

DR Resource providers are subject to Load Management Test Compliance.

For Demand Resources committed for the 2023/2024 Delivery Year and subsequent Delivery Years:

1. For Annual Demand Resources: if an Annual Demand Resource registration for the 2023/2024 Delivery Year is not dispatched by the Office of the Interconnection for a Load Management event in the Delivery Year or if an Annual Demand Resource registration for the 2024/2025 Delivery Year or subsequent Delivery Years is not dispatched by the Office of the Interconnection for a Load Management event in a Delivery Year and assessed for performance during Performance Assessment Intervals, then the registration committed by a Capacity Market Seller in a zone shall be tested as described in section (3) listed below, for a two-hour period between the hours of 11:00 EPT and 18:00 EPT of a non-NERC holiday weekday during June through October or November through March of the relevant Delivery Year, where date and time are selected by the Office of the Interconnection and notice is provided consistent with the procedure described in sections (4) and (5) listed below . If an Annual Demand Resource registration for the 2023/2024 Delivery Year is dispatched by the Office of the Interconnection for a Load Management event during the Delivery Year or if an Annual Demand Resource Registration for 2024/2025 Delivery Year or subsequent Delivery Years is dispatched by the Office of the Interconnection for a Load Management event in a Delivery Year and assessed for performance during Performance Assessment Intervals, then no test will be required.

   Subject to the conditions in this paragraph beginning in Delivery Year 2024/2025 and subsequent Delivery Years, CSPs may elect to use performance data from a Load Management event that was not subject to a Non-Performance Assessment (a non-PAI LM event) as performance data for a PJM zonal test event. Elections are made on or after June 1 and no later than July 14th after the Delivery Year in the DR Hub system. Data required for compliance evaluation must be submitted no later than July 14th after the Delivery Year. Only one event result (either test event or non-PAI LM event) for each end use customer site will be used in the zonal test evaluation:

   a. The duration of non-PAI LM event must be at least 30 minutes of a clock hour

   b. The election of non-PAI LM events to be used as zonal test performance will be done at the registration lead time interval.

   c. For purposes of this election, the calculated reduction value for a registration in the non-PAI LM event is the average of the registration's hourly reductions within the product period hourly window.

   d. CSP's Load Reduction Capability data submission(s) must account for registrations that will not participate in a PJM scheduled test.

      i. In accordance with the load reduction reporting requirements in section 4.3.9, any updates to the Load Reduction Capability data for non-participation in PJM scheduled test must be reported no later than 4 p.m. on the day prior to the PJM scheduled test.

   PJM will take into consideration non-PAI LM events when scheduling tests. This could result in test event postponements when non-PAI LM events occur within a scheduled test window.

2. For Summer-Period Demand Resources: if a Summer- Period Demand Resource registration for the 2023/2024 Delivery Year is not dispatched by the Office of the Interconnection for a Load Management event during June through October or the following May of the Delivery Year or if a Summer-Period Demand Resource registration for the 2024/2025 Delivery Year or subsequent Delivery Years is not dispatched by the Office of the Interconnection for a Load Management event during the June through October or the following May of the Delivery Year and assessed for performance during Performance Assessment Intervals, then the registration committed by a Capacity Market Seller must demonstrate that it was tested as described in section (3) listed below, for a two-hour period between the hours of 11:00 EPT and 18:00 EPT of a non-NERC holiday weekday, during June through October of the relevant Delivery Year, where date and time are selected by the Office of the Interconnection and notice is provided consistent with the procedure described below.

   Subject to the conditions in this paragraph beginning in Delivery Year 2024/2025 and subsequent Delivery Years, CSPs may elect to use performance data from a Load Management event that was not subject to a Non-Performance Assessment (a non-PAI LM event) as performance data for a PJM zonal test event. Elections are made on or after June 1 and no later than July 14th after the Delivery Year in the DR Hub system. Data required for compliance evaluation must be submitted no later than July 14th after the Delivery Year. Only one event result (either test event or non-PAI LM event) for each end-use customer site will be used in the zonal test evaluation:

   a. The duration of a non-PAI LM event must be at least 30 minutes of a clock hour

   b. The election of non-PAI LM events to be used as zonal test performance will be done at registration lead time level.

   c. The non-PAI LM event must have occurred in the summer.

   d. For purposes of this election, the calculated reduction value for a registration in the non-PAI LM event is the average of the registration's hourly reductions within the product period hourly window.

   e. CSP's Load Reduction Capability data submission(s) must account for registrations that will not participate in a PJM scheduled test.

      i. In accordance with the load reduction reporting requirements in section 4.3.9, any updates to Load Reduction Capability data non-participation in PJM scheduled test must be reported no later than 4 p.m. on the day prior to the PJM scheduled test.

   PJM will take into consideration non-PAI LM events when scheduling tests. This could result in test event postponements when non-PAI LM events occur within a scheduled test window.

3. All registrations in a zone will be tested simultaneously for two hours for each product. Registration performance will be calculated as the two hour average reduction. The Office of the Interconnection may, at its discretion, cancel a test and retest on an event day to ensure system reliability.
    a. If less than 25 percent (by megawatts) of a Curtailment Service Provider's total Demand Resources in a zone fail the test, the Curtailment Service Provider may conduct re-tests limited to all registrations that failed to meet their seasonal nominated ICAP in the prior test, provided that such re-test(s) must be during the same season period (except if test was conducted in March in which case retest can be conducted in May), at the same time of day and under approximately the same weather conditions as the prior test, and provided further that all affiliated registrations must test simultaneously, where affiliated means registrations that have any ability to shift load and are owned or controlled by the same entity. If less than 25 percent of resources fail the test and the Curtailment Service Provider chooses to conduct a retest, the Curtailment Service Provider may elect to maintain the performance compliance result for the registration(s) that achieved during the test if Curtailment Service Provider: (1) notifies the Office of the Interconnection 48 hours prior to the retest under this election; and (2) the Curtailment Service Provider retests affiliated registrations under this election as set forth in the PJM Manual.
    b. If 25 percent or more (by megawatts) of a Curtailment Service Provider's Demand Resources fail the test, the Curtailment Service Provider may request the Office of Interconnection to schedule a one-time retest limited to all registrations that failed to meet their seasonal nominated ICAP in the prior test, provided that all affiliated registrations must test simultaneously. Affiliated means registrations that have any ability to shift load and are owned or controlled by the same entity. The request must be made before the 46th day after the test. The Office of the Interconnection will select the date and time of the retest during the same season period (except if test was conducted in March in which case retest may be conducted in May) and notice is provided consistent with the procedure described below.
4. Notification of the initial Office of the Interconnection scheduled test will be provided based on the following procedure.
    a. The Office of Interconnection shall schedule, on an alternating basis, one test during June through October or November through March for each Delivery Year that a test is required. On the first business day of a week, PJM will provide notice of all zones to be tested during the following two week test window. The test window opens the first business day of the week following the notice. By 10:00 EPT the day before the test, the Office of the Interconnection will post on its website the test date and zones. The Office of the Interconnection will also notify the Curtailment Service Providers of the test date. On the test date, Curtailment Service Providers will be notified of start time of test through the same notification protocol used for an event and as described in the PJM Manuals.

5. Notification of any scheduled retest by the Office of the Interconnection will be provided based on the following procedure.
    a. By 10:00 EPT the day before the retest, the Office of the Interconnection will post the retest date on its website. PJM will also notify the Curtailment Service Providers the retest date. On the retest date, Curtailment Service Providers will be notified of start time of retest through the same notification protocol used for an event and as described in the PJM Manuals.

Load Management test compliance for a registration will be measured based on Performance Assessment Interval compliance for a registration; however, for purposes of Load Management test compliance the Resource Compliance Position for a registration considers the Summer Average RPM/FRR Commitment as opposed to the RPM/FRR Commitment on the day of the event or Performance Assessment Interval and performance will be aggregated to the zone and not Performance Assessment Area.

Resource Compliance Position for a registration for a test is determined as the Nominated Load Reduction Value reported in the DR Hub system minus the actual load reduction, where the Nominated Load Reduction Value is capped at the Summer Average RPM/FRR Commitment for such registration. The Nominated Load Reduction Value determined based on summer capability is used to test Capacity Performance DR product-type registrations.

Summer Average RPM/FRR Commitment for a Demand Resource is the daily average of the RPM/FRR resource commitments for such Demand Resource from June 1st through September 30th of the Delivery Year. If multiple registrations are linked to a committed Demand Resource in the Capacity Exchange system, the Summer Average RPM/FRR Commitment for such Demand Resource is allocated to the registrations pro-rata based on the nominated load reduction value of the registrations.

For any Load Management test, a provider's net testing shortfall in a zone for a product type is calculated by netting the Resource Compliance Positions of the product-type registrations tested in a zone. A resource provider with a positive net testing shortfall in a zone for a product type (i.e., under compliance MWs in zone for a product type) will be assessed a Zonal Load Management Test Failure Charge. A net testing shortfall in zone for Capacity Performance DR product-type (which may include Summer-Period DR) may be separated into net testing shortfall in zone due to annual commitments or summer-only commitments, as appropriate.

If a Demand Resource is committed by multiple parties, a portion of the provider's net testing shortfall in a zone for a product-type may be assessed to each party that has a commitment if tested registrations linked to such Demand Resource under-complied, based on the each party's commitment share of the Demand Resource.

8.8 Replacement Resources

Participants may specify replacement resources in order to avoid or reduce resource performance assessment shortfalls and the associated deficiency/penalty charges. Participants may not specify replacement resources in order to avoid or reduce performance assessment shortfalls and associated deficiency/penalty charges related to price responsive demand.

Replacement capacity for generation resources, Demand Resources, Energy Efficiency Resources, or Qualifying Transmission Upgrades committed to RPM may be specified via the Capacity Exchange system by entering a "Replacement Capacity" transaction before the start of the Delivery Day. However, upon a request to PJM made no later than three business days after a Delivery Day containing a Performance Assessment Interval, Replacement Capacity Transactions may be permitted retroactively effective with the Delivery Day provided such transaction meets the following criteria: (1) the replacement resource must have already been in the same sub-account as the resource being replaced on the Delivery Day, (2) the replacement resource must have been included in the same Performance Assessment Intervals as the resource being replaced, (3) the replacement resource must have the same or better temporal availability characteristics as the resource being replaced, (4) the replacement resource must be located in the same LDA (or a more constrained child LDA) as the resource being replaced, and (5) the resulting total Daily Resource Commitments (RPM and FRR) (in UCAP terms) on a generation resource used as a replacement resource cannot exceed such replacement resource's Actual Performance during the Performance Assessment Intervals. Such requests must be submitted to rpm_hotline@pjm.com and include the start date and end date, resource being replaced, replacement resource, and the desired change in Daily RPM Commitments (in UCAP terms) for the resource being replaced and product type (Capacity Performance) of the commitment being replaced.

Through the "Replacement Capacity" transaction functionality in Capacity Exchange, PJM will provide participants with a list of the available capacity for each generation or demand resource in their portfolio as well as a list of cleared buy bids from any Incremental Auction via the Capacity Exchange system and a list of resources with RPM Resource Commitments. Participants will have the ability to match a generation, Demand Resource, Energy Efficiency Resource or Qualifying Transmission Upgrade resource committed to RPM that they would like to replace with available capacity from a generation resource, demand resource, cleared buy bids in an Incremental Auction, or from Locational UCAP transactions. Available capacity from an EE Resource may be utilized to replace the commitment of only another EE Resource because such commitments are accompanied by the adjustment that is required to avoid double-counting of energy efficiency measures as described in section 2.4.5 of this manual.

The following are business rules that apply to Replacement Resources for Resources Committed to RPM:

- The start date and end date of the replacement must be specified.

- The Delivery Year commitment of a Generation Capacity Resource may not be replaced until after the final Accredited UCAP Factor for the Delivery Year has been locked in the Capacity Exchange system. After the final Accredited UCAP Factor for the prior Delivery Year has been locked in and prior to the conduct of the Third Incremental Auction for the Delivery Year, the commitment of such a resource may be replaced but only up to the quantity of any commitment deficiency of the resource.
- Any or all of a Delivery Year commitment of a Generation Capacity Resource, Demand Resource, or Energy Efficiency Resource may be replaced any time prior to the conduct of the Third Incremental Auction for that Delivery Year when the owner of the replaced resource provides transparent and verifiable evidence to support the expected final physical position of the resource at the time of request. Such requests shall be submitted in writing simultaneously to PJM rpm_hotline@pjm.com and the Independent Market Monitor rpmacr@monitoringanalytics.com documenting the reason for the early replacement. PJM will approve or deny a request for early Replacement Capacity, based upon the below criteria, with input from the Market Monitor, within 15 days of receiving a completed early Replacement Capacity request.
    - Acceptable reasons for early replacement are:
        - Generator Deactivation (properly noticed to PJM and posted to the website)
        - A pending request to PJM for removal of Generation Capacity Resource status (in accordance with Manual 18, section 5.4.7, and subject to PJM approval)
        - Withdrawal of generation New Service Request/ cancellation of generation project (accompanied by written notification to PJM Interconnection Projects manager)
        - Generation delayed in-service date (accompanied by written notification to PJM Interconnection Projects manager)
        - Permanent departure of load used as a basis for an existing DR or EE resource at the time of commitment
        - A financially and physically firm commitment to an external sale of its capacity for the entire Delivery Year that is demonstrated with supporting evidence as specified in Tariff, Attachment DD, Section 6.6(g), for the 2023/24, 2024/25, 2025/26 Delivery Years where there is only one Incremental Auction
    - Generation replaced may not be recommitted for the Delivery Year. Therefore, the resource may not resell the replaced MW in a subsequent RPM auction for the applicable Delivery Year, and has no requirement to submit a Must-Offer Exception request for such auctions.
    - DR/EE sites replaced may not be registered or committed for the Delivery Year.
- A Replacement Resource used to reduce a Demand Resource commitment shall be specified for no less than the balance of the Delivery Year. An available Demand Resource may only be used as a Replacement Resource when the start date of the Replacement Capacity transaction is from June 1 through September 30th unless the Demand Resource

can demonstrate through the prior summer's event or test compliance data that the Demand Resource met both its Summer Average RPM Commitment and the new daily RPM commitment level that would result if the Replacement Capacity transaction was approved.

- The desired change in Daily RPM Resource Commitments (in UCAP terms) for the resource being replaced and the replacement resource must be specified. The change in Daily RPM Resource Commitments cannot result in a negative value for the Daily RPM Resource Commitments for the resource being replaced. The desired change in Daily RPM Resource Commitments (in UCAP terms) for the resource being replaced must also indicate the product type (Capacity Performance) of the commitment being replaced.
- The replacement resource must be located in the same sub-account as the resource that is being replaced.
- The replacement resource must be located in the same LDA as the resource that is being replaced or reside in the Sink LDA of the Qualifying Transmission Upgrade being replaced. However, if there is remaining import capability into the LDA after the Third Incremental Auction, a replacement resource may be located in a parent LDA, subject to the following restrictions. The ability to submit a replacement transaction from a parent LDA into a child LDA is limited by the import capability remaining into the LDA. After the Third Incremental Auction, the remaining import capability of each LDA is posted on the PJM website.
- Resources located in a constrained LDA can serve as replacement capacity for a generation resource located in a less constrained parent LDA.
- The replacement resource must have the same or better temporal availability characteristics as the resource that is being replaced.
- Capacity Performance Resource commitments can only be replaced by available capacity from a capacity resource that is eligible to be committed as CP, or by cleared Buy Bids or Locational UCAP of the Capacity Performance product type.
- Available capacity of a Capacity Resource with State Subsidy for which the Capacity Market Seller has not elected to forego receipt of any State Subsidy for the relevant Delivery Year and does not qualify for one of the categorical exemptions may not be used to replace the commitment of a Capacity Resource that (1) is not a Capacity Resource with State Subsidy or (2) is a Capacity Resource with State Subsidy for which the Capacity Market Seller elected the competitive exemption and reported that it will forego receipt of any State Subsidy for the relevant Delivery Year or (3) a Capacity Resource with State Subsidy that qualifies for one of the categorical exemptions.
- If a generation, demand, or EE resource is used as replacement capacity, a decrease in the Daily RPM Resource Commitments for the resource that is being replaced will result and a corresponding increase in the Daily RPM Resource Commitments for the replacement generation, demand, or EE resource will result during the time period specified for replacement. A change in the Daily RPM Resource Commitments for a generation resource will result in a change in the Total Unit ICAP Commitment Amount for the generation resource.

- If cleared buy bids from an Incremental Auction or Locational UCAP transactions are used as replacement capacity, a decrease in the Daily RPM Commitments for the resource that is being replaced will result during the time period specified for replacement. A change in the Daily RPM Commitments for a generation resource will result in a change in the Total Unit ICAP Commitment Amount for the generation resource.

Replacement resources for Generation Capacity Resources, QTU, Energy Efficiency Resources, or Demand Resources committed to FRR Capacity Plan are specified by an FRR Entity through the update of the FRR Entity's FRR Capacity Plan prior to the start of the Delivery Day. FRR Entities may update their FRR Capacity Plan to reduce the FRR Capacity Plan Commitment on the resource being replaced and increase the FRR Capacity Plan Commitment on a replacement resource. The change in the Daily FRR Capacity Plan Commitments for a generation resource will result in a change in the Total Unit ICAP Commitment Amount for the generation resource.

8.8.1 Excess Commitment Credits

LSEs may receive credits when Reliability Requirements decrease resulting in an excess capacity.

The Excess Capacity Credits will be the PJM Sell Offers in the Scheduled Incremental Auctions that do not clear less the PJM Buy Bids in Incremental Auctions that do not clear. The Excess Capacity Credits in PJM will be allocated to LDAs pro rata based on the reduction in LDA peak load forecast from BRA to the time of Third Incremental Auction, provided the amount allocated does not exceed the reduction in the corresponding LDA Reliability Requirement. There will not be an allocation to LDA with an increase in load forecast.

The amount allocated to LDA will be further allocated to LSEs that are charged a Locational Reliability Charge, based on the Daily Unforced Capacity Obligation of the LSEs as of June 1 of the Delivery Year, and the credits will be constant for the entire Delivery Year. Excess Commitment Credits may be used as Replacement Capacity or traded bilaterally.

Section 9: Settlements

Welcome to the *Settlements* section of the ***PJM Manual for the PJM Capacity Market***. In this section, you will find the following information:

- The business rules for the deficiency and penalty charges in RPM/FRR for committed supply resources (see "Deficiency and Penalty Charges")
- The business rules for Locational Reliability Charges (see "Locational Reliability Charges")
- The business rules for RPM auction credits and charges (see "Auction Credits and Charges")
- The business rules for the penalty charges in RPM/FRR for non-performance of price responsive demand (see "Penalties for Non-Performance of Price Responsive Demand")
- The business rules for the PRD Credits (see "PRD Credits")

9.1 Deficiency and Penalty Charges

9.1.1 Deleted

9.1.2 Deleted

9.1.3 Capacity Resource Deficiency Charge

The Daily Capacity Resource Deficiency Charge is applicable to a capacity resource with a RPM commitment that does not have enough unforced capacity value on such resource to cover its RPM commitments. The Daily Capacity Resource Deficiency Charge is equal to the Daily Deficiency Rate times the Daily RPM Commitment Shortage for generation resource, Demand Resource, or Energy Efficiency Resource.

$$DailyCapResourceDeficiencyCharge = DDR^{*} DailyRPMCommitmentShortage$$

The Daily Deficiency Rate ($/MW-day) applicable to a shortage is equal to the Party's Weighted Average Resource Clearing Price for such resource plus the higher of 0.2*Party's Weighted Average Resource Clearing Price for such resource or $20/MW-day. In the case where a Party's Weighted Average Resource Clearing Price for such resource is equal to $0/MW-day because the committed resource did not clear in any RPM Auction (i.e., commitments were due to the resources being used as a source of a Locational UCAP transaction or as replacement capacity), a PJM Weighted Average Resource Clearing Price in an LDA will be used.

A party's Weighted Average Resource Clearing Price for such resource's commitments is determined by calculating the weighted average of segment-specific (i.e., annual, seasonal-summer, seasonal-winter) resource clearing prices received on the deficient day for such resource across all Delivery Year RPM Auctions, weighted by a party's segment-specific

cleared and make-whole MWs for such resource. Segment-specific cleared MWs acquired or transferred through a Unit Specific Transaction for cleared capacity are accounted for in the calculation of a party's Weighted Average Resource Clearing Price.

The PJM Weighted Average Resource Clearing Price for commitments in an LDA is determined by calculating the c weighted average of segment-specific resource clearing prices applicable in the LDA across all Delivery Year RPM Auctions, weighted by the total segment-specific cleared and make-whole MWs in the LDA.

A resource that is also subject to a Non-Performance Charge during one or more Performance Assessment Intervals occurring during a continuous time period of Daily RPM Commitment Shortages associated with Capacity Performance commitments shall be assessed a charge equal to the greater of (a) the total Daily Capacity Resource Deficiency Charges calculated for shortages associated with Capacity Performance commitments for such continuous time period or (b) the total Non-Performance Charges calculated for the Performance Assessment Intervals occurring during such continuous time period. The sum of the Daily Capacity Resource Deficiency Charges and Non-Performance Charges actually billed for such continuous time period may not exceed the resultant greater of charge.

Note:
Daily Capacity Resource Deficiency Charges are assessed daily and billed weekly.

9.1.4 Transmission Upgrade Delay Penalty Charge

The Daily Transmission Upgrade Delay Penalty Charge is equal to the QTU Delay Penalty Rate times the Daily RPM Commitment Shortage for the QTU.

$$DailyQTUDelayPenaltyCharge = QTUDelayPenaltyRate^{*} DailyRPMCommitmentShortage$$

The QTU Delay Penalty Rate is equal to the higher of (i)1.2 times the Capacity Resource Clearing Price of the LDA into which the QTU is cleared or (ii) the Net Cost of New Entry.

A QTU that is also subject to a Non-Performance Charge during one or more Performance Assessment Intervals occurring during a continuous time period of Daily RPM Commitment Shortages shall be assessed a charge equal to the greater of (a) the total Daily Transmission Upgrade Delay Penalty Charges calculated for such continuous time period or (b) the total Non-Performance Charges calculated for the Performance Assessment Intervals occurring during such continuous time period. The sum of the Daily Transmission Upgrade Delay Penalty Charges and Non-Performance Charges actually billed for such continuous time period may not exceed the resultant greater of charge.

Note:
Transmission Upgrade Delay Penalty Charges are assessed daily and billed weekly.

9.1.5 Generation Resource Rating Test Failure Charge

The Daily Generation Resource Rating Test Failure Charge is applicable to all generation resources (with the exception of Variable Resources) committed to RPM or FRR that have a positive Daily Unit ICAP shortfall due to a rating test failure. The determination of the Daily Unit ICAP Shortfall for a generation resource and a Provider's Daily ICAP Shortfall is described in Section 8.5.1 for Delivery Years through the 2024/2025 Delivery Year and Section 8.5.2 for Delivery Years starting with the 2025/2026 Delivery Year.

For Delivery Years through the 2024/2025 Delivery Year, the Daily Generation Resource Rating Test Failure Charge shall be equal to the Daily Deficiency Rate times: a) for Combination Resources and Limited Duration Resources, the appropriate Accredited UCAP value that corresponds to the Provider's Daily ICAP Shortfall, or; b) for Unlimited Resources, the Provider's Daily ICAP Shortfall times (1 – Effective EFORd) for a generation resource.

Effective with the 2025/2026 Delivery Year, the Daily Generation Resource Rating Test Failure Charge shall be equal to the Daily Deficiency Rate times the Provider's Daily ICAP Shortfall of the resource converted to Unforced Capacity terms using the Generation Capacity Resource's final Accredited UCAP Factor for the Delivery Year.

GenerationResourceRatingTestFailureCharge = DDR DailyICAPShortfall * AUCAPFactor*

The Daily Deficiency Rate applied to a Daily ICAP Shortfall for RPM Resource Commitments is equal to the Party's Weighted Average Resource Clearing Price for such resource plus the higher of 0.2*Party's Weighted Average Resource Clearing Price for such resource or $20/MW-day. In the case where a Party's Weighted Average Resource Clearing Price for such resource is equal to $0/MW-day because the committed resource did not clear in any RPM Auction (i.e., commitments were due to the resources being used as a source of a Locational UCAP transaction or as replacement capacity), a PJM Weighted Average Resource Clearing Price in an LDA will be used.

The Daily Deficiency Rate applied to Daily ICAP Shortfall for FRR Resource Commitments is equal to 1.2 times the weighted average of the resource clearing prices across all Delivery Year RPM Auctions for the LDA encompassing the zone of the FRR Entity, weighted by the quantities cleared in the RPM Auctions.

A resource that is also subject a Non-Performance Charge during one or more Performance Assessment Intervals occurring during a continuous time period of Daily ICAP Shortfalls due to rating test failure shall be assessed a charge equal to the greater of (a) the total Daily Generation Resource Rating Test Failure Charges calculated for such continuous time period or (b) the total Non-Performance Charges for the Performance Assessment Intervals occurring during such continuous time. The sum of the Daily Generation Resource Rating Test Failure Charges and Non-Performance Charges actually billed for such continuous time period may not exceed the resultant greater of charge. A resource that is subject to a Generation Operational Test Failure Charge shall not also be subject to a Generation Resource Rating Test Failure Charge for the same megawatts during overlapping time periods.

Note:
Generation Resource Rating Test Failure Charges are assessed daily for the entire Delivery Year and are billed retroactively for the entire Delivery Year in the June monthly bill issued in July after the conclusion of the Delivery Year.

9.1.5A Generation Operational Test Failure Charge

The Generation Operational Test Failure Charge is applicable to all generation resources (with the exception of Variable Resources) committed to RPM or FRR that fail the Generation Operational retest in accordance with Manual 14D.

The Daily Generation Operational Test Failure Charge applicable to RPM commitments shall be equal to the Daily Deficiency Rate times the applicable daily RPM committed UCAP MW of that Generation Resource.

RPM Daily Generation Operational Test Failure Charge = DDR × Applicable Daily RPM Committed UCAP MW

The Daily Deficiency Rate applicable to RPM Resource Commitments is equal to the Party's Weighted Average Resource Clearing Price for such resource plus the higher of 0.2*Party's Weighted Average Resource Clearing Price for such resource or $20/MW-day. In the case where a Party's Weighted Average Resource Clearing Price for such resource is equal to $0/MW-day because the committed resource did not clear in any RPM Auction (i.e., commitments were due to the resources being used as a source of a Locational UCAP transaction or as replacement capacity), a PJM Weighted Average Resource Clearing Price for the corresponding LDA will be used.

The Daily Generation Operational Test Failure Charge applicable to FRR commitments shall be equal to the Daily Deficiency Rate times the applicable daily FRR committed UCAP MW of that Generation Resource).

FRR Daily Generation Operational Test Failure Charge = DDR × Applicable Daily FRR Committed UCAP MW

The Daily Deficiency Rate applicable to FRR Resource Commitments is equal to 1.2 times theweighted average of the resource clearing prices across all RPM Auctions for the relevant Delivery Year, for the LDA encompassing the zone of the FRR Entity, weighted by the quantities cleared in the RPM Auctions.

A resource that is also subject to a Non-Performance Charge during one or more Performance Assessment Intervals occurring during a continuous time period of a generation operational test failure shall be assessed a charge equal to the greater of (a) the total Daily Generation Operational Test Failure Charges calculated for such continuous time period or (b) the total Non-Performance Charges for the Performance Assessment Intervals occurring during such continuous time. The sum of the Daily Generation Operational Test Failure Charges and Non-Performance Charges actually billed for such continuous time period may not exceed the resultant greater of charge.

9.1.6 Load Management Test Failure Charge

The Daily Load Management Test Failure Charge is equal to the net testing shortfall in zone (expressed in UCAP) times the LM Test Failure Charge Rate. A net testing shortfall in zone will be separated into net testing shortfall in zone due to annual commitments and summer-only commitments, as appropriate.

The Daily Load Management Test Failure Charge Rate for zonal net testing shortfall due to annual commitments is equal to the Provider's Weighted Daily Revenue Rate for annual commitments in such zone plus the greater of (0.20 times the Provider's Weighted Daily Revenue Rate for annual commitments in such zone, or $20/MW-day). In the case where a Provider's Weighted Daily Revenue Rate for annual commitments in zone is $0/MW-day because the underlying committed resource(s) did not clear in any RPM Auction (i.e., commitments were due to the resource(s) being used as a source of a Locational UCAP transaction or as replacement capacity or commitments due to FRR Alternative), a PJM Weighted Daily Revenue Rate for annual commitments in such zone will be used. A Daily Load Management Test Failure Charge, equal to the net testing shortfall in zone due to annual commitments times the Daily Load Management Test Failure Charge Rate, will apply for each day in the Delivery Year.

The Daily Load Management Test Failure Charge Rate for zonal net testing shortfall due to summer-only commitments is equal to the Provider's Weighted Daily Revenue Rate in such zone for summer-only commitments plus the greater of (0.20 times the Provider's Weighted Daily Revenue Rate in such zone for summer-only commitments, or $20/MW-day). In the case where a Provider's Weighted Daily Revenue Rate in such zone for summer-only commitments is $0/MW-day because the underlying committed resource(s) did not clear in any RPM Auction (i.e., commitments were due to the resource(s) being used as source of a Locational UCAP transaction or as replacement capacity or commitments due to FRR Alternative), a PJM Weighted Daily Revenue Rate in such zone for summer-only commitments will be used. A Daily Load Management Test Failure Charge, equal to net testing shortfall in zone due to summer-only commitments times the Daily Load Management Test Failure Charge Rate, will apply for June through October and May of the Delivery Year.

Note:
The Load Management Test Failure Charges will be assessed in August monthly bill issued in September after the conclusion of the Delivery Year.

9.1.7 Allocation of Deficiency and Penalty Charges

The Daily Capacity Resource Deficiency Charges, Daily Transmission Upgrade Delay Penalties, Daily Generation Resource Rating Test Failure Charges, Generation Operational Test Failure Charges, and Load Management Test Failure Charges are distributed on a pro-rata basis to

LSEs who were charged a Daily Locational Reliability Charge for the day in order to compensate for resource adequacy that was not delivered.

Daily Capacity Resource Deficiency Charges, Daily Transmission Upgrade Delay Penalties, Daily Generation Resource Rating Test Failure Charges, and Load Management Test Failure Charges are allocated on a pro-rata basis to LSEs based on their daily unforced capacity obligation.

9.1.8 Emergency Procedures Charges

The Emergency Procedures Charges outlined in ***Schedule 13 of the Reliability Assurance Agreement and section 13 of Attachment DD of OATT*** for refusal to comply or failure to employ all reasonable efforts to comply will remain in effect, and will be assessed in addition to any penalty described here.

9.1.9 Non-Performance Charge/Bonus Performance Credit

Non-Performance Charge will be assessed to a resource provider or PRD Provider that had a Performance Shortfall for a Performance Assessment Interval.

Non-Performance Charge is equal to the Performance Assessment Interval Performance Shortfall (MW) times Non-Performance Charge Rate ($/MWh).

The Non-Performance Charge Rate to be applied to shortfalls associated with Capacity Performance commitments or PRD commitments is equal to {[the modeled LDA Net CONE for which the resource resides ($/MW-day in installed capacity terms) times number of days in Delivery Year divided by 30} divided by the number of Real-Time Settlement Intervals in an hour.

Stop-loss provisions limit the total Non-Performance Charge that can be assessed on each Capacity Resource or to a PRD Provider. The stop-loss provision (i.e., the maximum year Non-Performance Charge) is covered in section 8.4A of this Manual.

Revenue collected from payment of Non-Performance Charges will be distributed to resources (of any type, even if they are not Capacity Resources) and PRD Provider that perform above expectations. A resource or PRD Provider with Actual Performance above its Expected Performance is considered to have provided Bonus Performance, and will be assigned a share of the collected Non-Performance Charge revenues in the form of a Bonus Performance Credit. This credit is based on the ratio of its Bonus Performance quantity to the total Bonus Performance quantity (from all resources and PRD Providers) for the same Performance Assessment Interval.

Note:
The billing of any Non-Performance Charges incurred in any given month will be done within three calendar months after the calendar month that included such Performance Assessment Intervals and such billing of charges will be spread over the remaining months in the Delivery Year. Bonus Performance Credits will follow the same billing methodology as Non-Performance Charges.

9.2 Locational Reliability Charges

9.2.1 Calculation of Locational Reliability Charges

All LSEs pay a Locational Reliability Charge equal to their Daily Unforced Capacity Obligation in a zone times the applicable Final Zonal Capacity Price.

$$LocationalReliabilityCharge = DailyUCAPOblig * FinalZonalCapacityPrice$$

Each LSE that serves load in a PJM Zone or load outside PJM using PJM resources (Non-Zone Network Load) during the Delivery Year is responsible for paying a Locational Reliability Charge equal to their Daily Unforced Capacity Obligation in a Zone times the applicable Final Zonal Capacity Price for that Delivery Year.

Note:
Locational Reliability Charges are calculated daily and billed weekly during the Delivery Year.

9.3 Auction Credits and Charges

9.3.1 Calculation of Auction Credits

$$RPMAuctionCredits = MWCleared_{LDA} * RCP_{LDA}$$

Each generation, demand, energy efficiency, or QTU resource provider that clears Capacity Performance sell offer segments in an RPM Auction will receive a Daily Auction Credit equal to the total MW amount that cleared in Capacity Performance sell offer segments times the applicable LDA resource clearing price in such RPM Auction for the entire Delivery Year.

Each generation, demand, or energy efficiency resource provider that clears Seasonal Capacity Performance-Summer sell offer segments in an RPM Auction will receive a Daily Auction Credit equal to the total MW amount that cleared in Seasonal Capacity Performance-Summer sell offer segments times the resource clearing price applicable to the resource's Seasonal Capacity Performance-Summer sell offer segments in such RPM Auction. The Daily Auction Credit shall apply for June through October and May of the Delivery Year.

Each generation resource provider that clears Seasonal Capacity Performance-Winter sell offer segments in an RPM Auction will receive a Daily Auction Credit equal to the total MW amount that cleared in Seasonal Capacity Performance-Winter sell offer segments times the resource clearing price applicable to the resource's Seasonal Capacity Performance-Winter sell offer segments in such RPM Auction. The Daily Auction Credit shall apply for November through April of the Delivery Year.

The PJM Generation Deactivation Credits received by units with Reliability Must Run (RMR) contracts will be reduced by the Auction Credits received by the RMR unit in a RPM Auction.

Note:
Auction Credits are calculated daily and billed weekly during the Delivery Year.

9.3.2 Calculation of Auction Charges

Each resource provider that clears a Buy Bid in an Incremental Auction will receive an Auction Charge (referred to as Resource Substitution Charge in OATT) equal to the MW amount that cleared in the LDA times the Resource Clearing Price in the LDA in the applicable Incremental Auction.

$$RPMAuctionCharges = MWCleared_{LDA} * RCP_{LDA}$$

Note:
Auction Charges are calculated daily and billed weekly during the Delivery Year.

9.3.3 Resource Make-Whole Credit

A Resource Make-Whole Credit is paid to the marginal resource in an RPM auction as appropriate to ensure the seller is paid the sell offer MW times the sell offer price. Resource Make-Whole Credit is equal to the product of the Resource Clearing Price and the quantity difference between the sell offer's minimum MW specification and the cleared MW quantity in the RPM Auction. The difference between the minimum MW offered and the cleared MW quantities is equal to the Make-whole MWs.

$$ResourceMakeWholeCredit = (Min\ MWOffered - MWCleared) * RCP_{LDA}$$

A resource provider that offered and cleared a Seasonal Capacity Performance sell offer for which the sell offer price exceeded the clearing price determined for such resource as a result of the seasonal matching process in the post-processing of the auction results as described in Section 5.7.2 and 5.8.5 will receive a Resource Make-whole Credit. The Resource Make-whole Credit is equal to the difference between the sell offer price and clearing price for such resource determined as a result of the seasonal matching process times the cleared MWs.

The Resource Make-whole Credit to a Seasonal Capacity Performance sell offer is incorporated in the Daily Auction Credit to the Seasonal Capacity Performance Resource since the Resource Clearing Price applicable to the Seasonal Capacity Performance Resource will include a seasonal make-whole price, if applicable.

Resource Make-Whole Credits from the First, Second, or Third Incremental Auctions are charged to all cleared participant and PJM buy bids on a pro-rata basis based on the MWs cleared in such auction. Make-whole charges assessed to buy bids cleared by PJM will be assessed to LSEs in the LDA via the Final Zonal Capacity Price

9.3.4 Capacity Transfer Rights Credit

Each Zonal Capacity Transfer Rights (CTRs) owner will receive a daily Zonal CTR Credit equal to the Zonal CTRs owned multiplied by the Zonal CTR Settlement Rate. Zonal CTRs owned include the Zonal CTRs allocated to an LSE and the results of any CTR transfers. The Zonal CTR Settlement Rate is the Total Economic Value of CTRs in Zone ($/day) for all LDAs in which the zone resides as a result of all RPM Auctions for such Delivery Year divided by the maximum LDA CTRs (MWs) allocated to LSEs in a zone.

$$ZonalCTRCredit = ZonalCTRsOwned * ZonalCTRSettlementRate$$

Each Incremental CTR owner will receive a daily Incremental CTR Credit equal to the Incremental CTRs owned for the LDA multiplied by the LDA Incremental CTR Credit Rate. The LDA Incremental CTR Credit Rate is equal to the average weighted Locational Price Adder for such LDA determined with respect to the immediate higher level LDA as a result of all RPM Auctions for such Delivery Year.

$$IncrementalCTRCredit = IncrementalCTRsOwned * LDAIncrementalCTRCreditRate$$

Note:
CTR Credits will be calculated daily and billed weekly during the Delivery Year.

9.3.5 Auction Specific MW Transaction Credits and Charges

The Seller of an Auction Specific Capacity Transaction will receive a charge equal to the transaction amount (in MW) times the price associated with the transaction. The price associated with the transaction is a weighted average of the Resource Clearing Prices of the resource-specific, auction-specific, segment-specific Cleared MWs identified in the transaction.

$$SellerCharge = TransactionAmount * WeightedAvgRCP$$

The Buyer of an Auction Specific MW Transaction will receive a credit equal to the transaction amount (in MW) times the price associated with the transaction.

$$BuyerCredit = TransactionAmount * WeightedAvgRCP$$

Note:
Charges and Credits for Auction Specific MW Transactions are calculated daily and billed weekly for the duration of the transaction during the Delivery Year.

9.3.6 Capacity Export Charges and Credits

Capacity Export Charge = Export Reserved Capacity * (Final Zonal Capacity Price for the Zone encompassing the interface with the Control Area to which the capacity is exported - Final Zonal Capacity Price for the Zone in which the resource designated for the export is located)

Where, Export Reserved Capacity = Reserved Capacity of Long-Term Firm Transmission Service used for the export.

Capacity Export Credit = Export Customer's Allocated Share * (Final Zonal Capacity Price for the Zone encompassing the interface with the Control Area to which the capacity is exported - the Final Zonal Capacity Price for the Zone in which the resource designated for the export is located)

Where,

Export Customer's Allocated Share = (Unforced Capacity imported) * [Export Reserved Capacity / (Export Reserved Capacity + Unforced Capacity Obligations of all LSEs in the Zone)]

Unforced Capacity imported = Unforced Capacity imported into the export interface Zone from the Zone in which the resource designated for export is located =

[(Export Reserved Capacity + Unforced Capacity Obligations of all LSEs in the Zone) – (Unforced Capacity cleared in the Zone)] *

(Ratio, as determined by PJM, of the CETL from the Zone in which the resource designated for export is located to the total CETL into the export interface Zone).

The revenues collected from Capacity Export Charge less the credit provided will be distributed to the LSEs in the export-interface Zone that were assessed Locational Reliability Charge for the delivery year (RPM LSEs) based on their Daily Unforced Capacity Obligations.

9.4 Penalties for Non-Performance of Price Responsive Demand

9.4.1 PRD Commitment Compliance Penalty & Credits

A PRD Provider with a positive daily commitment compliance shortfall in a sub-zone/zone for RPM or FRR will be assessed a Daily PRD Commitment Compliance Penalty.

The Daily PRD Commitment Compliance Penalty is equal to the MW shortfall in the Sub-zone/ Zone * Delivery Year Forecast Pool Requirement * PRD Commitment Compliance Penalty Rate.

The MW Shortfall in Sub-zone/Zone for RPM is the Daily Nominal PRD Value committed in BRA and/or Third IA by the PRD Provider minus the Daily Nominal PRD Value for RPM determined from approved and effective PRD registrations for such PRD Provider.

The MW Shortfall in Sub-zone/Zone for FRR is the Daily Nominal PRD Value committed for FRR by the PRD Provider minus the Daily Nominal PRD Value for FRR determined from approved and effective PRD registrations for such PRD Provider.

The PRD Commitment Compliance Penalty Rate for a PRD Provider that committed PRD for RPM is equal to PRD Provider's Weighted Final Zonal Capacity Price in $/MW-Day + higher of [0.2 * PRD Provider's Weighted Final Zonal Capacity Price or $20/MW-day].

A PRD Provider's Weighted Final Zonal Capacity Price is the average of the Final Zonal Capacity Price and the price component of the Final Zonal Capacity Price due to the Third Incremental Auction, weighted by the Nominal PRD Values committed by such PRD Provider in Base Residual Auction and Third Incremental Auction.

The PRD Commitment Compliance Penalty Rate for a PRD Provider that committed PRD for FRR is 1.20 times the weighted-average Resource Clearing Price resulting from all RPM Auctions for the Delivery Year for the LDA where the FRR PRD commitment resides, weight-averaged for the Delivery year based on the prices established and quantities cleared in the RPM Auctions for such Delivery Year.

The revenue collected from assessment of the PRD Commitment Compliance Penalty shall be distributed on a pro-rata basis as Daily PRD Commitment Compliance Credit to all entities that committed Capacity Resources in the RPM Auctions for such Delivery Year, pro rata based on each such entity's daily revenues from Capacity Market Clearing Prices in such auctions, net of any daily compliance charges incurred by such entity.

9.4.2 Deleted

9.4.3 PRD Test Failure Charges & Credits

Each PRD Provider with a positive net testing shortfall in a zone will be assessed PRD Test Failure Charge.

The PRD Test Failure Charge is equal to the net testing shortfall in zone times * Delivery Year Forecast Pool Requirement * PRD Test Failure Charge Rate

The PRD Test Failure Charge Rate for RPM PRD is equal to the PRD Provider's Weighted Final Zonal Capacity Price in such Zone plus the greater of (0.20 times the PRD Provider's Weighted Final Zonal Capacity Price in such Zone or $20/MW-day) times the number of days in the Delivery Year.

A PRD Provider's Weighted Final Zonal Capacity Price is the average of the Final Zonal Capacity Price and the price component of the Final Zonal Capacity Price due to the Third Incremental Auction, weighted by the Nominal PRD Values committed by such PRD Provider in BRA and Third IA.

The PRD Test Failure Charge Rate for FRR PRD is 1.20 times the weighted-average Resource Clearing Price resulting from all RPM Auctions for the Delivery Year for the LDA where the FRR PRD commitment resides, weight-averaged for the Delivery year based on the prices established and quantities cleared in the RPM Auctions for such Delivery Year.

The PRD Test Failure Charge shall be assessed daily and billed retroactively in the August bill issued in September after the conclusion of the Delivery Year.

The revenue collected from assessment of the PRD Test Failure Charges shall be distributed on a pro-rata basis as Daily PRD Test Failure Credits to all entities that committed Capacity Resources in the RPM Auctions for such Delivery Year, pro rata based on each such entity's daily revenues from Capacity Market Clearing Prices in such auctions, net of any daily compliance charges incurred by such entity.

9.4.4 PRD Credit

The PRD Provider identified in the PRD registration will receive a Daily PRD Credit each day that the PRD registration is effective. The PRD Provider (FRR Entity) identified in the PRD registration will not receive a Daily PRD Credit.

PRD Credit = [(Share of Zonal Nominal PRD Value committed in Base Residual Auction * * Final Zonal RPM Scaling Factor * FPR * Final Zonal Capacity Price) + (Share of Zonal Nominal PRD Value committed in Third Incremental Auction * * Final Zonal RPM Scaling Factor * FPR * Final Zonal Capacity Price * Third Incremental Auction Component of Final Zonal Capacity Price stated as a Percentage)].

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Where:

Share of Zonal Nominal PRD Value Committed in Base Residual Auction = Nominal PRD Value for such registration/Total Zonal Nominal PRD Value of all Price Responsive Demand registered by the PRD Provider of such registration * Zonal Nominal PRD Value committed in the Base Residual Auction by the PRD Provider of such registration.

Share of Zonal Nominal PRD Value Committed in Third Incremental Auction = Nominal PRD Value for such registration/Total Zonal Nominal PRD Value of all Price Responsive Demand registered by the PRD Provider of such registration *Zonal Nominal PRD Value committed in the Third Incremental Auction by the PRD Provider of such registration.

When the PRD registration is associated with a sub-Zone, the Share of the Nominal PRD Value Committed in Base Residual Auction or Third Incremental Auction will be based on the Nominal PRD Values committed and registered in a sub-Zone.

A PRD Provider will receive a PRD Credit for each approved Price Responsive Demand registration that is effective and applicable to load served by such Load Serving Entity on a given day. The total daily credit to a PRD Provider in a Zone shall be the sum of the credits received as a result of all approved registrations in the Zone on a given day. The PRD Credit PRD Performance penalties are assessed to the PRD Provider in the registration.

Section 10: Capacity Exchange

Welcome to the *Capacity Exchange* section of the ***PJM Manual for the PJM Capacity Market***. In this section, you will find the following information:

- A description of the PJM Capacity Exchange tool (see "PJM Capacity Exchange Overview").

10.1 Overview

PJM Capacity Exchange tool is an Internet application that allows Market Participants to participate in PJM's RPM Auctions, the FRR Alternative, and view load and obligation data.

The graphic below presents a conceptual view of the RPM auction subsystems.

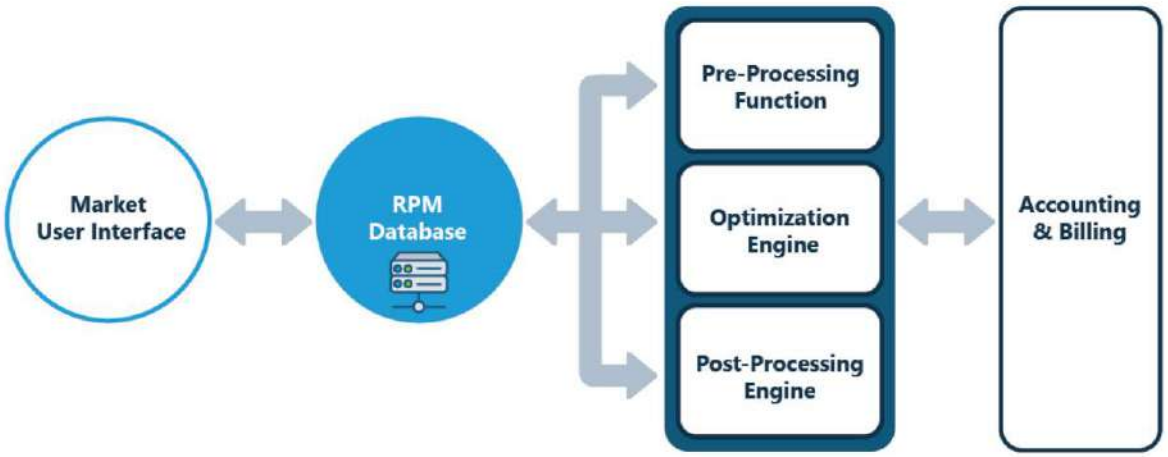


Exhibit 4: RPM Auction Subsystems

The Market User Interface (MUI) allows market participants to:

- Maintain their resource portfolio by increasing or decreasing their installed capacity values for generation via Capacity Modifications.
- View resource position
- Report Unit Specific Bilateral Transactions with a counterparty
- Report Auction Specific MW Transactions with a counterparty
- Report Locational UCAP Transactions
- Report Cleared Buy Bid Transactions
- Submit Resource Offers to sell capacity into an RPM auction

- Submit replacements for RPM Auction Commitments
- View Auction Results
- View load and obligation data
- Submit FRR Capacity Plan
- View deficiency data related to RPM/FRR Commitments

All data entered into the MUI is validated and entered into the RPM database by the MUI.

A ***Capacity Exchange User Guide*** is posted on the pjm website to help participants use the Capacity Exchange tool.

The RPM auction subsystem consists of the following three components:

- *Pre-processing Function* – performs all activities necessary to setup Auctions, including specifying the Planning Year Parameters as inputs into the solution and evaluating submitted resource offers.
- *Optimization Engine* – performs auction clearing process to ensure the most economical capacity threshold is met. Assigns unit commitments based on the entered offers, demand curves, and specific planning year parameters.
- *Post-processing Function* – ensures that the appropriate data items are transferred to the RPM auction database for posting on the MUI and ensures the results are transferred to the accounting and billing subsystems.

Section 11: Fixed Resource Requirement Alternative

Welcome to the *Fixed Resource Requirement Alternative* section of the ***PJM Manual for the PJM Capacity Markets***. In this section, you will find the following information:

- An overview of the Fixed Resource Requirement Alternative (see "Overview of the Fixed Resource Requirement Alternative")
- The business rules for determining Load Obligations in FRR (see "Load Obligations")
- The business rules for creating the Capacity Plan in FRR (see "Capacity Plan")
- The business rules for supply resources in the FRR Alternative (see "Supply Resources in the FRR Alternative"
- The business rules for locational constraints in the FRR Alternative (see "Locational Constraints in the FRR Alternative")
- The conditions on sales by FRR Entities (see "Conditions on Sales by FRR Entities")
- The business rules for Delivery Year Activity (see "Deliver Year Activity")
- The business rules for the calculation of deficiency charges and penalties (see "Deficiency Charges and Penalties")
- The business rules for the allocation of deficiency charges (see "Allocation of Deficiency Charges")
- The business rules for Auction Specific MW Transactions (see "Auction Specific MW Transactions"

11.1 Overview

11.1.1 Definition and Purpose of Fixed Resource Requirement Alternative

The purpose of the Fixed Resource Requirement (FRR) Alternative is to provide a Load Serving Entity (LSE) with the option to submit a FRR Capacity Plan and meet a fixed capacity resource requirement as an alternative to the requirement to participate in the PJM Reliability Pricing Model (RPM), which includes a variable capacity resource requirement.

The FRR Alternative allows an LSE, subject to certain conditions, to avoid direct participation in the RPM Base Residual Auctions and the Incremental Auctions; however, such LSE is required to submit a FRR Capacity Plan to satisfy the unforced capacity obligation for all loads in an FRR Service Area, including all expected load growth in the FRR Service Area.

An LSE serving load in an FRR Service Area under the FRR Alternative does not pay an RPM Locational Reliability Charge. The portions of capacity resources included in an LSE's FRR Capacity Plan do not receive any RPM Resource Clearing Prices.

11.1.2 Implementation of the FRR Alternative

PJM's Planning Period is defined as an annual period from June 1 to May 31. The Delivery Year is the Planning Period for which resources are being committed and for which a constant load obligation for the entire PJM region exists. For example, the 2012/2013 Delivery Year corresponds to the June 1, 2012-May 31, 2013 Planning Period.

FRR Entities may commit Capacity Performance Resources and Seasonal Capacity Performance Resources to their FRR Capacity Plan.

11.1.3 Participation in the FRR Alternative

An LSE may participate in the Fixed Resource Requirement (FRR) Alternative and avoid participation in RPM, only if the LSE meets the eligibility requirements of the Fixed Resource Requirement (FRR) Alternative as defined in Schedule 8.1 of the Reliability Assurance Agreement (RAA).

To elect the FRR Alternative for the first time, an LSE must notify PJM of such election in writing at least four months before the conduct of the Base Residual Auction (BRA) for the first Delivery Year that such election is to be effective.

The election of the FRR Alternative shall be for a minimum term of five consecutive Delivery Years.

The written election notification must provide adequate information to demonstrate that the LSE meets the eligibility requirements of the FRR Alternative and that the FRR Service Area identified to be served by the LSE under the FRR Alternative complies with the meaning of an FRR Service Area as defined in the RAA. The written election must also indicate whether or not the LSE intends to sell capacity resources to a direct or indirect purchaser that may use such capacity resources in any RPM Auctions or as replacement resources in RPM or whether the LSE intends to serve load in another area under RPM.

Within ten business days of the receipt of the written election notification, PJM will validate that the LSE meets the eligibility requirements of the FRR Alternative. PJM will also request confirmation from the EDC that the identified FRR Service Area is metered and complies with the meaning of an FRR Service Area as defined in the RAA. PJM will (1) notify such LSE in writing that its election of the FRR Alternative is valid and the appropriate modifications to the Capacity Exchange database have been completed to allow the LSE to submit a FRR Capacity Plan through the Capacity Exchange system or (2) notify an LSE in writing that its election of the FRR Alternative is invalid since it did not meet the eligibility requirements of the FRR Alternative or that the identified FRR Service Area does not comply with the meaning of an FRR Service Area as defined in the RAA.

If PJM has provided written notice to an LSE that its election of the FRR Alternative is invalid, the LSE will be required to serve its load under the RPM for the Delivery Year such election was to be effective.

If PJM has provided written notice to an LSE that its election of the FRR Alternative is valid, an LSE must submit its initial FRR Capacity Plan through the Capacity Exchange system at least one month prior to the conduct of the Base Residual Auction for the first Delivery Year that such election is to be effective.

An LSE may terminate its election of the FRR Alternative effective with the commencement of any Delivery Year following the minimum term of five consecutive Delivery Years. An FRR Entity may terminate its election of the FRR Alternative prior to meeting its minimum five year commitment without penalty for any Delivery Year after the first Delivery Year of the FRR Entity's minimum five year commitment for which PJM will be required to establish a separate Variable Resource Requirement Curve, as described in Section 11.5 below. Written notice of such termination must be provided to PJM no later than two months prior to the Base Residual Auction (BRA) for such Delivery Year. In addition, an FRR Entity that elected the FRR Alternative for a Delivery Year prior to the 2025/2026 Delivery Year, may terminate its election of the FRR Alternative prior to meeting the minimum term of five years without penalty by providing written notice of such termination to the Office of the Interconnection no later than two months prior to the Base Residual Auction for a Delivery Year through and including the 2028/2029 Delivery Year.

An LSE that has terminated its election of the FRR Alternative shall not be eligible to re-elect the FRR Alternative for a period of five consecutive Delivery Years following the effective date of such termination.

In the event of a State Regulatory Structural Change as defined in the RAA, an LSE may elect or terminate its election of the FRR Alternative effective as to any Delivery Year by providing written notice to PJM of the election or termination of FRR Alternative. The written notice shall be provided in good faith as soon as the LSE becomes aware of such State Regulatory Change, but no later than two months prior to the BRA for such Delivery Year.

To facilitate the election and notices required by the FRR Alternative, except a new FRR Entity's initial election, the following information shall be posted by PJM with the BRA Planning Parameters in accordance with the posting deadline provided on the RPM Auction Schedule on the PJM website:

- Preliminary RTO and Zonal Peak Load Forecasts
- LDAs modeled in the Base Residual Auction
- Installed Reserve Margin (IRM)
- Pool-wide Average EFORd through 2024/2025 Delivery Year
- Pool-wide average Accredited UCAP Factor starting with the 2025/2026 Delivery Year
- Forecast Pool Requirement (FPR)
- Reliability Requirements of the PJM Region and each modeled LDA
- Variable Resource Requirement (VRR) Curves of the PJM Region and each modeled LDA
- CETO and CETL values for each modeled LDA

- Transmission Upgrades projected to be in service for the Delivery Year
- Cost of New Entry (CONE) for the PJM Region and each modeled LDA
- Net Energy and Ancillary Services Revenue Offset of the PJM Region and each modeled LDA
- Base Zonal FRR Scaling Factor
- Percentage of Internal Resources Required in an LDA
- Deadline for FRR Capacity Plan Submittal
- Auction Credit Rate

LSEs electing the FRR Alternative will be subject to the same credit requirements as suppliers of resources into the RPM auctions, to the extent that they submit as part of their FRR Capacity Plan any resources for which credit would be required if offered into an RPM auction. However, if an alternative retail LSE is providing capacity resources to the FRR Entity to satisfy the alternative retail LSE's capacity obligation in lieu of providing compensation to the FRR Entity in accordance with RAA Schedule 8.1D, section 9; the alternative retail LSE as opposed to the FRR Entity will be subject to any applicable credit requirements for capacity resources provided.

Any credit provided by an LSE to satisfy its credit requirements under the FRR Alternative must be established prior to the deadline for submitting the FRR Capacity Plan.

11.2 Load Obligations

Similar to RPM load obligations, FRR load obligations are calculated in two steps. First, prior to the RPM Base Residual Auction based on Preliminary Zonal Peak Load Forecast; then prior to the Third Incremental Auction based on the Final Zonal Peak Load Forecast. Base and Final Zonal FRR Scaling Factors and Forecast Pool Requirement are used in calculating the FRR Entity Unforced Capacity Obligations.

11.2.1 Preliminary Unforced Capacity Obligation

PJM will notify the Electric Distribution Company (EDC) that an election of the FRR Alternative was made by an LSE in their zone within two business days of the receipt of the written election notification.

An approved FRR Service Area will become a defined "area" within a zone in the Capacity Exchange system.

Only one LSE shall be responsible for serving the entire load in an FRR Service Area.

The Electric Distribution Company (EDC) is responsible for allocating the Zonal Weather Normalized Summer Peak for the summer four years prior to the Delivery Year and providing to PJM a Base Obligation Peak Load allocation for the FRR Service Area(s) in their zone within five business days of the receipt of notice of an FRR Service Area within their zone.

The Preliminary Daily Unforced Capacity Obligation of an LSE serving load in an FRR Service Area in a zone equals the LSE's Base Obligation Peak Load in the zone/area * the Base Zonal FRR Scaling Factor * the Forecast Pool Requirement.

The Preliminary Daily Unforced Capacity Obligation of an LSE serving load in an FRR Service Area shall be reduced by the Nominal PRD Value associated with such load that was approved by PJM in advance of the BRA for such Delivery Year, multiplied by the BRA Forecast Pool Requirement.

The Preliminary Daily Unforced Capacity Obligation of an LSE serving load in an FRR Service Area shall be increased by the UCAP Value of any EE Resource that is used in the FRR Capacity Plan because energy efficiency measures are reflected in the peak load forecast that is used as the basis for determining the UCAP Obligation of the FRR Entity.

The Base Zonal FRR Scaling Factor is equal to Preliminary Zonal Peak Load Forecast divided by the Zonal Weather Normalized Summer Peak for the summer four years prior to the Delivery Year. The Base Zonal FRR Scaling Factor is posted by February 1 three years prior to the Delivery Year.

The EDC is responsible for allocating the Zonal Weather Normalized Summer Peak for the summer one year prior to the Delivery Year and providing to PJM a Final Obligation Peak Load allocation for the FRR Service Area(s) in their zone by December 31 prior to the start of the Delivery Year.

The Final Zonal FRR Scaling Factor is equal to Final Zonal Peak Load Forecast divided by the Zonal Weather Normalized Summer Peak for the summer one year prior to the Delivery Year. The Final FRR Zonal Scaling Factor is determined by PJM and provided to the FRR Entity by February 1 prior to the Delivery Year.

The following parameters used in the determination of FRR load obligations are determined in accordance with Section 2 of this manual: Preliminary and Final Zonal Peak Load Forecasts, Zonal Weather Normalized Summer Peaks, Forecast Pool Requirement (FPR), Installed Reserve Margin (IRM), Pool-wide Average EFORd through the 2024/2025 Delivery Year, and the Pool-wide average Accredited UCAP Factor starting with the 2025/2026 Delivery Year.

11.2.2 Treatment of Non-Zone Load

Treatment of Non-Zone Load is similar to the treatment under RPM. The FRR Alternative is available to an LSE serving Non-Zone Load if the LSE meets the eligibility and election requirements of the FRR Alternative.

Non-Zone Load is the load that is located outside of the PJM Region served by a PJM Load Serving Entity using PJM internal resources. Non-Zone Load is included in the load of the Zone from which the load is served.

Non-Zone Load may be Non-Zone Network Load (Tariff 1.27B) that is charged a Network Integration Transmission Service (NITS) charge (Tariff Attachment H-A) or other load that may be 'grandfathered' from the NITS charge.

PJM forecasts the Preliminary Non-Zone Load for the RPM Delivery Year and includes it in the Preliminary RTO Forecast Peak Load and the Preliminary Zonal Forecast Peak Load of the Zone from which the Non-Zone Load is served, by February 1 prior to the Base Residual Auction.

To serve Non-Zone Load in a Delivery Year under the Fixed Resource Requirement Alternative, the Non-Zone Load should be included in the Preliminary RTO Forecast Peak Load and the Preliminary Zonal Forecast Peak Load prior to the RPM Base Residual Auction for the Delivery Year. In addition, the LSE must satisfy the eligibility and election requirements of the FRR Alternative.

PJM forecasts the final forecast of the Non-Zone Load and includes it in the Final RTO Forecast Peak Load and the Final Zonal Forecast Peak Load that is posted one month prior to the Third Incremental Auction.

EDC that is responsible to determine the Obligation Peak Loads for the Zone will also establish the Obligation Peak Load associated with the Non-Zone Load by December 31 prior to the start of the Delivery Year.

The LSE serving the Non-Zone Load under the FRR Alternative will be responsible to commit resources in their FRR Capacity Plan to cover the non-zone load.

11.2.3 Annexation & Switching of Load

The following business rules address the annexation of service territory by a Public Power Entity and load switching between FRR Entity and RPM LSEs. If an LSE that is a Public Power Entity annexes service territory to include new customers on sites where no load had previously existed, the incremental load will be treated as unanticipated load growth, and the LSE must commit additional resources to cover the additional load obligation associated with this annexed load.

If an LSE that is a Public Power Entity annexes service territory and the load was already included in the Base Residual Auction, the LSE cannot cover the incremental load obligation using the excess of resources from their FRR Capacity Plan. Instead, the LSE will pay the RPM Locational Reliability Charge for this incremental load obligation (including any additional demand curve obligation) since RPM process has already procured capacity resources to cover this load. The charges collected from the LSE will be used to pay capacity resources that that cleared in the Base Residual Auction for that LDA.

If an LSE that is a Public Power Entity annexes service territory and the Base Residual Auction was not held, the LSE must commit resources to cover this incremental load obligation in its FRR Capacity Plan.

If an LSE that has not elected the FRR Alternative acquires load from an FRR LSE after the Base Residual Auction, the shifted load will be considered as unanticipated load growth for purposes of determining RTO/LDA Reliability Requirements in all future Incremental Auctions for such Delivery Year, and such shifted load shall pay a Locational Reliability Charge for such Delivery Year. For the next Incremental Auction, the FRR Entity would have an RPM must offer requirement for a fixed amount of unforced capacity equal to the shifted load times the updated Forecast Pool Requirement applicable to the next Incremental Auction. The FRR Entity would continue to have an RPM must offer requirement for all future Incremental Auctions for such Delivery Year; however, the RPM must offer requirement would terminate once the FRR Entity cleared the required fixed amount of Unforced Capacity in Incremental Auction(s) for such Delivery Year.

If an LSE that has not elected the FRR Alternative acquires load from an FRR LSE and the Base Residual Auction has not been conducted for a Delivery Year, the FRR LSE should no longer commit capacity resources for the shifted load in its FRR Capacity Plan. PJM will include the shifted load in the future Base Residual Auctions.

11.3 Capacity Plan

The most important requirement in electing FRR Alternative is for the FRR Entity to commit Capacity Resources to meet their daily unforced capacity obligations, any applicable Percentage of Internal Resources Required in an LDA, plus any additional threshold if the FRR Entity plans to sell capacity. Failure to commit the required resources would result in FRR Commitment Insufficiency Charge and ineligibility to continue the FRR Alternative. An FRR Capacity Plan is the long-term plan for the commitment of Capacity Resources to satisfy the daily zonal unforced capacity obligations of an LSE that has elected the FRR Alternative in an FRR Service Area and any applicable Percentage of Internal Resources Required in a Locational Deliverability Area (LDA).

If the LSE intends to sell capacity resources to a direct or indirect purchaser that may use such a resource in any RPM Auctions or as a replacement resource in RPM, the LSE must also maintain a Threshold Quantity in its FRR Capacity Plan prior to the Delivery Year.

The Threshold Quantity is equal to the Preliminary Daily Unforced Capacity Obligation plus the lesser of (a) 0.03 * Preliminary Daily Unforced Capacity Obligation or (b) 450 MW.

An LSE must submit an initial FRR Capacity Plan at least one month prior to the conduct of the Base Residual Auction for the first Delivery Year by demonstrating that it has sufficient capacity resources in its FRR resource portfolio in Capacity Exchange to satisfy:

- LSE's Preliminary Daily Unforced Capacity Obligations by zone for its FRR Service Area;

- any applicable Percentage of Internal Resources Required in LDA; and
- Threshold Quantity, if applicable.

If the initial FRR Capacity Plan does not satisfy the LSE's Preliminary Daily Zonal Unforced Capacity Obligations, any applicable Percentage of Internal Resources Required in LDA, and Threshold Quantity, if applicable, by the posted deadline for FRR Capacity Plan submittal, the LSE's election of the FRR Alternative will not be approved by PJM. The LSE will be required to serve its entire load in the FRR Service Area under the RPM for the Delivery Year such election was to be effective.

An LSE must annually demonstrate through the Capacity Exchange system no later than one month prior to the Base Residual Auction for each succeeding Delivery Year that it has extended the commitment of sufficient capacity resources to satisfy:

- LSE's Preliminary Daily Unforced Capacity Obligations by zone for its FRR Service Area;
- any applicable Percentage of Internal Resources Required in LDA; and
- Threshold Quantity, if applicable.

If the FRR Capacity Plan for a succeeding Delivery Year does not satisfy the LSE's Preliminary Daily Unforced Capacity Obligations, any applicable Percentage of Internal Resources Required in LDA, and Threshold Quantity, if applicable, by the posted deadline for FRR Capacity Plan submittal, the LSE will be assessed an FRR Commitment Insufficiency Charge for any shortage of unforced capacity in meeting the Percentages of Internal Resources Required in LDA or the Preliminary Daily Unforced Capacity Obligations (including any Threshold Quantity) for any remainder of the minimum term of the FRR election. The shortage is defined as the shortage in meeting the Percentage of Internal Resources Required in LDA plus any additional shortage in meeting the Preliminary Daily Unforced Capacity Obligation including any Threshold Quantity Requirement. The shortage amount identified in the first delivery year that this charge is to be assessed is to be applied in the remaining delivery years that the charge is to be assessed. Through the 2024/2025 Delivery Year, the FRR Commitment Insufficiency Charge in a zone is equal to two times the Cost of New Entry ($/MW-day) in the zone times the shortage amount. For Delivery Years between the 2025/2026 Delivery Year through the 2028/2029 Delivery Year, no FRR Commitment Insufficiency Charge shall be assessed. Effective with the 2029/2030 Delivery Year and subsequent Delivery Years, an FRR Commitment Insufficiency Charge is equal to the price level corresponding to point (1) of the Variable Resource Requirement curve for the relevant Locational Deliverability Area, in $/MW-day, times the shortage amount.

FRR Commitment Insufficiency Charges are allocated on a pro-rata basis to all other LSEs (including RPM LSEs) in the RTO based on their Daily Unforced Capacity obligations.

Existing generation, planned generation, bilateral contracts for unit-specific capacity resources, existing demand resources, planned demand resources, energy efficiency resources, Aggregate Resources , and Seasonal Capacity Performance Resources may be used in the FRR Capacity

Plan if these resources meet the requirements specified in the PJM Agreements and Business Rules.

Existing generation that is located outside of the PJM market footprint may be used in the FRR Capacity Plan if the external generation meets the requirements specified in PJM Agreements and Section 4 of this manual.

Capacity Performance Resources or Seasonal Capacity Performance Resources may be included in the FRR Capacity Plan.

Through the 2024/2025 Delivery Year, at the FRR Entity's election, the UCAP MW quantity of generation resources that are committed to the initial FRR Capacity Plan will be determined using the lower of the generation resources' EFORd calculated based on outage data for the 12 months ending September 30th prior to the Base Residual Auction or the 5 Year Average EFORd based on outage data for the 12 months ending September 30th prior to the Base residual Auction. The EFORd applied to the Final FRR Capacity Plan evaluated throughout the Delivery Year will be determined by PJM using the forced outage data for the 12 months ending September 30th prior to the Delivery Year. The final Accredited UCAP value of a resource will be applied to the Final FRR Capacity Plan evaluated throughout the Delivery Year.

Effective with the 2025/2026 Delivery Year, the UCAP MW quantity of generation resources that are committed to the initial FRR Capacity Plan will be based on the Accredited UCAP Factor determined for each generation resource prior to the Base Residual Auction, and the UCAP MW quantity of committed demand resources will be based on the applicable ELCC Class Rating determined prior to the Base Residual Auction. The final Accredited UCAP Factor of a generation resource and the final applicable ELCC Class Rating for a demand resource for the Delivery Year will be applied to the Final FRR Capacity Plan evaluated throughout the Delivery Year.

Qualifying Transmission Upgrades may be used to reduce the Percentage of Internal Resources Required in an LDA for the FRR LSE if the Qualifying Transmission Upgrade meets the requirements specified in the PJM Agreements and Section 4 of this manual.

A capacity resource used in an FRR Capacity Plan must be on a unit-specific basis, and may not include "slice of system" or similar agreements that are not unit-specific.

An LSE's FRR Capacity Plan for the Delivery Year shall not include any MWs committed to RPM for such Delivery Year.

Any capacity resource that was not offered by the FRR Entity or offered but did not clear by the FRR Entity in any RPM Auction for such Delivery Year may be included in an FRR Capacity Plan. Such MWs are classified as Available MWs and would be eligible to commit to an FRR Capacity Plan.

An LSE's FRR Capacity Plan for the Delivery Year may include resources that are committed for less than a full Delivery Year; however, the FRR Capacity Plan in aggregate must satisfy all obligations for the Delivery Year.

If an LSE has committed capacity to meet a Threshold Quantity, the LSE shall maintain such resources until the Delivery Year's Final Unforced Capacity Obligation and final requirements (Percentage of Internal Resources Required in LDA) are known. The LSE may use such resources during the Delivery Year to meet any increased capacity obligation resulting from an increase in Final Obligation Peak Load from Base Obligation Peak Load, or sell the resources to another FRR Entity in PJM or to an External Party.

All generation resources that have a FRR Capacity Plan Commitment must offer into PJM's Day Ahead Energy Market. Demand Resources that have an FRR Capacity Plan Commitment must be registered to participate in the Full Program Option or Capacity Only Option of the Emergency or Pre-Emergency Load Response Program and thus be available for dispatch during PJM-declared emergency event.

Prior to the start of each Delivery Year, the FRR entity must elect whether it seeks to be subject to the Non-Performance Charge or to physical non-performance assessments for such Delivery Year. An FRR Entity may not elect the physical non-performance assessment option if such FRR Entity will not be an FRR Entity for the following Delivery Year and will be serving load their under the RPM. If such FRR Entity opted to be subject to physical non-performance assessments, the FRR Entity will be required to update their FRR Capacity Plan for the following Delivery Year with additional MW of Capacity Performance Resources for each MW of FRR net Performance Shortfall for each Performance Assessment Interval in accordance with Section 11.8. Such FRR Entity shall not be eligible for, or subject to, Bonus Performance Credits.

11.4 Supply Resources in the FRR Alternative

The supply resources available and the qualification requirements for use in FRR Capacity Plans are very similar to RPM resources.

11.4.1 Resource Portfolio

An FRR Entity must specify through the Capacity Exchange system, before the FRR Capacity Plan submittal deadline, the amounts of installed capacity from resources in their Capacity Exchange resource portfolio that are being committed to their FRR Capacity Plan for the Delivery Year.

A party's Daily Generation Resource Position is calculated dynamically by the Capacity Exchange system for each unit and is equal to the Daily ICAP Owned on a unit multiplied by the unit's Accredited UCAP Factor

The Daily ICAP Owned on a unit is calculated by adding the ICAP Value of a unit as determined by a party's approved Capacity Modifications to ICAP amounts transacted through a party's approved unit-specific bilateral sales/purchases.

Through the 2024/2025 Delivery Year, the Accredited UCAP Factor shall mean one minus EFORd. The EFORd of a unit is based on forced outage data from an October through September period.

If a unit does not have a full one-year history of forced outage data, the EFORd will be calculated using class average EFORd and the available history as described in the Reliability Assurance Agreement, Schedule 5, Section B.

New units are initially assigned a class average EFORd.

The class average EFORds that are used by PJM to calculate a unit's EFORd are posted to the PJM website by November 30 prior to the Delivery Year.

The Effective EFORd is the EFORd that is effective for the delivery day in the Capacity Exchange system.

Prior to the Delivery Year, the Effective EFORd is the most recently calculated EFORd that has been bridged to the Capacity Exchange system.

During the Delivery Year, the Effective EFORd is based on forced outage data from the October through September period prior to the Delivery Year.

The EFORd that is effective for the Delivery Year is considered locked in the Capacity Exchange system by November 30 prior to the execution of the Third Incremental Auction.

Effective with the 2025/2026 Delivery Year, the Accredited UCAP Factor is the ratio of the Capacity Resource's Accredited UCAP as determined by ELCC analysis (see Section 4.2.7 Accredited UCAP for ELCC Resources) to the Capacity Resource's installed capacity.

A unit that is in a party's Generation Resource portfolio in Capacity Exchange may be committed to FRR Capacity Plan if the party has Daily Available ICAP to commit from the unit for the entire term of the commitment specified in the FRR Capacity Plan.[32] If the party's Daily Available ICAP for the unit varies for the term of the commitment specified in the FRR Capacity Plan, only the minimum Daily Available ICAP may be committed for the term of the commitment specified in the FRR Capacity Plan.

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32 The term of the resource's commitment to the FRR Capacity Plan may be less than a Delivery Year.

For a party, the Daily Available ICAP to commit on a unit is equal to Daily ICAP Owned - (Daily RPM Resource Commitments/(Accredited UCAP Factor)) – Daily FRR Capacity Plan Commitments.

A party's Daily RPM Resource Commitments for a specific generating unit are calculated by adding the sum of any UCAP Cleared plus UCAP Makewhole for such unit in RPM Auctions to decreases/increases of RPM Resource Commitments due to approved unit-specific bilateral sales/purchases of cleared capacity, approved locational UCAP transactions, and the specification of replacement resources.

A party's Daily FRR Capacity Plan Commitments for a specific generating unit are equal to the total amount of installed capacity that was committed from the unit for the FRR Capacity Plan.

A party's Daily FRR Generation Resource Position for a specific unit is calculated by multiplying the Daily FRR Capacity Plan Commitments by (Accredited UCAP Factor).

An LSE's Daily Total FRR Generation Resource Position is calculated by summing the Daily FRR Generation Resource Positions of all units in their resource portfolio in Capacity Exchange.

An LSE's Daily LDA FRR Generation Resource Position is calculated by summing the Daily FRR Generation Resource Positions of all units in the LDA.

A party's Daily ICAP Owned for a specific demand resource is equal to the Daily Nominated DR Value adjusted for the ICAP amounts transacted through a party's approved unit-specific bilateral sales/purchases for such demand resource in effect for such day. Prior to the Delivery Year demand resource registration process in DR Hub system, the Daily Nominated DR Value for an FRR Entity's Demand Resource is established based on PJM's approval of the FRR Entity's DR Sell Offer Plan and PJM's submittal of a corresponding DR Modification into the Capacity Exchange system. After the Delivery Year demand resource registration process begins in DR Hub system, the Daily Nominated DR value for a Demand Resource for a Delivery Year is established based on confirmed Demand Resource Registrations in "completed" status linked to the DR Resource in the DR Hub system in accordance with Section 4.3.4 of Manual 18.

Through the 2024/2025 Delivery Year, a party's Daily Demand Resource Position for a Demand Resource is calculated dynamically by the Capacity Exchange system and is equal to the Daily ICAP Owned * Forecast Pool Requirement. Starting with the 2025/2026 Delivery Year, a party's Daily Demand Resource Position for a Demand Resource is calculated dynamically by the Capacity Exchange system and is equal to the Daily ICAP Owned * applicable ELC Class Rating. A Demand Resource that is in a party's Demand Resource portfolio may be committed to the FRR Capacity Plan, if there is Daily Available ICAP to commit from the Demand Resource for the entire term of the commitment specified in the FRR Capacity Plan.

Through the 2024/2025 Delivery Year, a party's, Daily Available ICAP for a specific demand resource is equal to the resource's Daily ICAP Owned- (Daily RPM Resource Commitments/

Forecast Pool Requirement) – Daily FRR Capacity Plan Commitments. Effective with the 2025/2026 Delivery Year, a party's Daily Available ICAP for a specific demand resource is equal to the resource's Daily ICAP Owned - (Daily RPM Resource Commitments/applicable ELCC Class Rating) - Daily FRR Capacity Plan Commitments.

A party's Daily RPM Resource Commitments for a specific demand resource are calculated by adding the sum of any UCAP Cleared plus UCAP Makewhole for such demand resource in RPM Auctions to decreases/increases of RPM Resource Commitments due to the specification of replacement resources, approved unit specific transactions for cleared capacity, and approved locational UCAP transactions.

A party's Daily FRR Capacity Plan Commitments for a specific demand resource are equal to the total amount of Nominated DR that was committed from the Demand Resource for the FRR Capacity Plan.

Through the 2024/2025 Delivery Year, a party's Daily FRR Demand Resource Position for a specific demand resource is equal to Daily FRR Capacity Plan Commitments* Forecast Pool Requirement. Effective with the 2025/2026 Delivery Year, a party's Daily LDA FRR Demand Resource Position is calculated by summing the Daily FRR Demand Resource Positions of all demand resources in the LDA.

A party's Daily FRR Capacity Plan Commitments for a specific EE Resource are equal to the total amount of Nominated EE that was committed from the EE Resource for the FRR Capacity Plan.

A party's Daily FRR EE Resource Position for a specific EE Resource is equal to Daily FRR Capacity Plan Commitments* Forecast Pool Requirement. A LSE's Daily Total FRR EE Resource Position is equal to the sum of the Daily FRR EE Resource Position of all EE resources in their resource portfolio in Capacity Exchange.

A LSE's Daily LDA FRR EE Resource Position is calculated by summing the Daily FRR EE Resource Positions of all EE resources in the LDA.

An LSE's Daily Total FRR Resource Position is calculated by summing the Daily FRR Generation Resource Positions, Daily FRR Demand Resource Positions, and Daily FRR EE Resource Positions of all resources in their Capacity Exchange resource portfolio. After the FRR Capacity Plan submittal deadline, an LSE's Daily Total FRR Resource Position is compared to their Daily Preliminary Unforced Capacity Obligation to determine if the LSE has satisfied their Preliminary Unforced Capacity Obligation for the entire Delivery Year.

After the FRR Capacity Plan submittal deadline, an LSE's Daily Total FRR Resource Position is compared to their Daily Threshold Quantity, if applicable, to determine if the LSE has satisfied their Daily Threshold Quantity for the entire Delivery Year.

During the Delivery Year, an LSE's Daily Total FRR Resource Position is compared to their Daily Final Unforced Capacity Obligation to determine if a Capacity Resource Deficiency Charge is to be assessed.

An LSE's Daily LDA FRR Resource Position is calculated by summing the Daily LDA FRR Generation Resource Positions, Daily LDA FRR Demand Resource Positions, and Daily LDA FRR EE Resource Positions of all resources in their FRR Capacity Plan.

After the FRR Capacity Plan submittal deadline, an LSE's Daily LDA FRR Resource Position is compared to Amount of Internal Resources Required in the LDA to determine if the LSE has satisfied the Percentage of Internal Resources Required in the LDA for the entire Delivery Year.

During the Delivery Year, an LSE's Daily LDA FRR Resource Position is compared to the Amount of Internal Resources Required in the LDA to determine if a Capacity Resource Deficiency Charge is to be assessed.

11.4.2 Existing Generation

Existing generation located within the PJM region or outside the PJM region is eligible to be committed to the FRR Capacity Plan if it meets the requirements set forth in Section 4 of this manual.

11.4.3 Planned Generation

Planned generation located within the PJM region or outside the PJM region is eligible to be committed to the FRR Capacity Plan if it meets the requirements set forth in Section 4 of this manual.

11.4.4 Capacity Modifications (Cap Mods)

RPM Business Rules regarding Capacity Modifications in Section 4 of this manual apply to the FRR Alternative.

CAP MODs with a start date that occurs on or before the start of the Delivery Year must be submitted and "Provisionally Approved" in the Capacity Exchange system in order for the CAP MODs to be considered in a party's Daily Generation Resource Position and the calculation of Available ICAP to commit to the FRR Capacity Plan.

If the status of a "Provisionally Approved" CAP Mod changes to "Denied" or "PJM Withdrawn" all bilateral transactions for the unit will be changed from "Approved" to "Denied". There will be no change to any party's RPM Resource Commitments; however, there may be a change to a party's FRR Capacity Commitments.

11.4.5 Bilateral Unit-Specific Transactions

RPM Business Rules regarding Bilateral Unit-Specific Transactions in Section 4 of this manual apply to the FRR Alternative.

Available installed capacity purchased through a bilateral unit-specific transaction that is reported via PJM's Capacity Exchange system may be committed to an FRR Capacity Plan.

All unit-specific bilateral transactions that are in the "Provisionally Approved" or "Approved" status in the Capacity Exchange system will be considered in a party's Daily Generation Resource Position and the calculation of Daily Available ICAP to commit.

The Capacity Export Charge and Credit described in Section 4: Supply Resources in the Reliability Pricing Model, under 4.6.3 Exporting a Generation Resource and in Section 9: Settlements are applicable to resources owned by FRR Entities also.

11.4.6 Qualified Transmission Upgrade

A Qualified Transmission Upgrade may be included in an LSE's FRR Capacity Plan. Such a transmission upgrade must be approved and assigned an incremental import capability value into the constrained LDA by the PJM Planning Department at least 45 days prior to deadline for submitting the initial FRR Capacity Plan for the Delivery Year.

An approved Qualified Transmission Upgrade may be used to reduce the Amount of Internal Capacity Required in the LDA for the FRR LSE.

The planned transmission upgrade in-service date must be on or before the start of the Delivery Year.

At a minimum, the Upgrade Customer must be in the Facilities Study phase for the proposed transmission upgrade, in order for approval to be granted and the transmission upgrade must conform to all applicable standards of the PJM Regional Transmission Expansion Planning Process.

If a Qualified Transmission Upgrade is not completed by the start of the Delivery Year, the LSE who included the upgrade as part of their FRR Capacity Plan for the Delivery Year shall provide a replacement in the form of an equivalent amount of capacity resource capability within the applicable LDA by the start of the delivery Year. If replacement capacity is not provided, a Capacity Resource Deficiency Charge may apply.

11.4.7 Load Management Products

A Load Management program (e.g., Firm Service Level or Guaranteed Load Drop program) is eligible to be committed as a Demand Resource (DR) to the FRR Capacity Plan, if the program meets the requirements specified in the ***Load Forecasting & Analysis Manual (M-19)*** and Section 4.3 of this manual.

In order to commit a Demand Resource to the initial FRR Capacity Plan for a Delivery Year, an FRR Entity must submit no later than 30 days prior to the initial FRR Capacity Plan submittal deadline a DR Sell Offer Plan as described in Attachment C of this Manual (i.e., a completed DR Plan template and DR Officer Certification Form). The completed DR Plan template must

clearly identify in the Summary section the Existing Nominated DR Value or Planned Nominated DR Value in ICAP MWs that the FRR Entity intends to commit to their initial FRR Capacity Plan. The FRR Entity must further classify the Existing/Planned Nominated DR Value as MWs intend to commit as Annual Capacity Performance for annual period and MWs intend to commit as Summer–Period Capacity Performance for summer period, and MWs intend to commit as part of an Aggregate Resource. Actual deadline date for the DR Plan template and DR Officer Certification is provided in the RPM Auction Schedule posted on the PJM website.

If an FRR Entity intends to commit demand resources located in a pre-identified zone/sub-zone, PJM will grant conditional approval of the total Nominated DR Value in such zone/sub-zone pending the PJM review of DR Sell Offer Plans for the Base Residual Auction for such Delivery Year.

An FRR Entity with PJM approved or conditionally approved Nominated DR Value(s) in zone/ sub-zone(s) will be permitted to commit the associated Demand Resource(s) to the FRR Capacity Plan, provided credit has been posted with the PJM Treasury Department for any Planned Demand Resource(s).

If a review of the DR Sell Offer Plans for the Base Residual Auction for such Delivery Year reveals that any of the conditionally approved MWs in a pre-identified zone/sub-zone are ascribed to another CSP by a letter of support from an end-use customer, such MWs shall be uncommitted from the FRR Capacity Plan and additional capacity resources shall be committed by the FRR Entity to the FRR Capacity Plan to satisfy the FRR Entity's Preliminary Unforced Capacity Obligation.

The UCAP value of a Demand Resource committed to an FRR Capacity Plan is equal to the Nominated DR Value committed * Forecast Pool Requirement through the 2024/2025 Delivery Year, and starting with 2025/2026 Delivery Year is equal to the Nominated DR Value committed * the applicable ELCC Class Rating. The Nominated DR Values (summer, winter, or annual) for a load management program registration are determined in accordance with Section 4.3.7 of this manual and the Daily Nominated DR Value of a Demand Resource for a Delivery Year is established based on confirmed Demand Resource Registrations in "completed" status linked to such Demand Resource in DR Hub system in accordance with Sections 4.3.4 and 4.7.2 of this manual.

A resource provider who has FRR Capacity Plan Commitments for their demand resource must meet (or contract with another party to meet the requirements specified in Section 4.3.1 of this manual.

A resource provider who has FRR Capacity Plan Commitments for their demand resource will be subject to Non-Performance Assessment and Load Management Test Compliance in accordance with Section 8 of this manual.

11.4.8 Demand Resource Modifications (DR MODs)

RPM Business Rules for DR MODs in Section 4 of this manual apply to the FRR Alternative.

DR MODs are no longer submitted by participants. A DR Mod submitted by PJM based on FRR Entity's approved DR Sell Offer Plan must be in a "Provisionally Approved" or "Approved" status in order for the DR MOD to be considered in a party's Demand Resource Position and in the calculation of Available ICAP to commit to the FRR Capacity Plan. After the Delivery Year demand resource registration process begins in DR Hub system, the Daily Nominated DR value for a Demand Resource for a Delivery Year is established based on confirmed Demand Resource Registrations in "completed" status linked to the DR Resource in the DR Hub system in accordance with Sections 4.3.4 and 4.7.2 of this manual.

11.4.9 Energy Efficiency Resources

An EE Resource may commit to an FRR Capacity Plan for a maximum of up to four consecutive Delivery Years. The time period of an Energy Efficiency installation determines whether an installation is eligible to be a capacity resource for a Delivery Year. The time period of Energy Efficiency installations and their associated eligibility, in addition to the modeling of EE Resources in the PJM Capacity Market, is presented in ***PJM Manual 18B: Energy Efficiency Measurement &Verification.***

An EE Resource must meet the following minimum requirements:

- Submit Initial Measurement &Verification (M&V) Plan no later than 30 days prior to the FRR Capacity Plan submittal in which the EE Resource is initially committed
- Submit Updated M&V Plan no later than 30 days prior to next FRR Capacity Plan submittal in which EE Resource is subsequently committed
- Establish credit with PJM Credit Department prior to FRR Capacity Plan submittal (for planned EE Resources)
- Submit Energy Efficiency Resource Modification (EE MOD) in Capacity Exchange system (An EE MOD is submitted by PJM)
- Submit Initial Post-Installation M&V Report no later than 15 business days prior to first Delivery Year that the EE Resource is committed
- Submit Updated Post-Installation M&V Reports no later than business 15 days prior to each subsequent Delivery Year that the EE Resource is committed
- Permit Post- Installation M&V Audit(s) by PJM or Independent Third Party.

PJM Manual 18B: Energy Efficiency Measurement & Verification establishes the requirements for the Initial M&V Plan, Updated M&V Plans, Initial Post-Installation M&V Report, Updated Post-Installation M&V Reports, and the M&V Audit.

11.4.10 Energy Efficiency Modifications (EE MODs)

RPM Business Rules for EE MODs in Section 4 of this manual apply to the FRR Alternative.

EE MODs submitted by PJM based on the FRR Entity's approved initial/updated M&V Plan must be in a "Provisionally Approved" or "Approved" status in order for the EE MOD to be considered in a party's EE Resource Position and in the calculation of Available ICAP to commit to the FRR Capacity Plan.

An EE MOD may be required prior to the Delivery Year to reflect the final Nominated EE Value or final Capacity Value of an EE Resource for the Delivery Year. An EE MOD decrease may result in the reduction of FRR Capacity Plan Commitments.

11.5 Locational Constraints in the FRR Alternative

As discussed in Section 2, locational constraints may require modeling constrained Locational Deliverability Areas (LDAs) separately. Locational Constraints are used to define the minimum Percentage of Internal Resources Required for a constrained LDA in the FRR Capacity Plan. For each LDA for which PJM is required to establish a separate Variable Resource Requirement Curve for the Delivery Year, a Percentage of Internal Resources Required for such LDA will be defined. PJM shall be deemed required to establish a separate Variable Resource Requirement Curve for an LDA if the LDA is Eastern Mid-Atlantic Region ("EMAR"), Southwest Mid-Atlantic Region ("SWMAR"), or Mid-Atlantic Region ("MAR"), or for other LDAs if separate modeling is required by Section 5.10(a)(ii)(A) or (B) of Attachment DD of the OATT.

The constrained Locational Deliverability Areas that will be modeled for a particular Delivery Year and Percentage of Internal Resources Required for such LDA (if applicable) will be posted on the PJM website by February 1 prior to the commencement of the Base Residual Auction for that Delivery Year.

An LDA has a limited import capability to import resources from outside the LDA. In RPM these imported resources are considered in clearing the auction in an LDA and the auction results would reflect the effect of the imports in reducing the LDA clearing price. Similar to RPM Entities, FRR Entities are provided the benefit of import capability by allowing them to include some resources from outside the LDA in their Capacity Plan. For each LDA that PJM is required to establish a separate Variable Resource Requirement Curve for the Delivery Year, the minimum Percentage of Internal Resources Required for such constrained LDA for the Delivery Year will be posted by February 1 prior to the commencement of the RPM Base Residual Auction for such Delivery Year. This Percentage of Internal Resources Required in an LDA is used to determine the Amount of Internal Resources Required (UCAP MWs) by the FRR LSE in the LDA. An approved Qualified Transmission Upgrade may be used to reduce the Amount of Internal Capacity Required in the LDA for the FRR LSE. An LSE must include enough capacity resource in its FRR Capacity Plan to satisfy the Amount of Internal Resources Required in the LDA. These capacity resources must be physically located in the LDA in which the FRR Service Area is located in order to satisfy this requirement.

The LDA Reliability Requirement is the projected internal capacity in the LDA plus the Capacity Emergency Transfer Objective (CETO) for the Delivery Year, as determined by the RTEP

process. The internal resource requirement in an LDA is the LDA Reliability Requirement less the Capacity Emergency Transfer Limit (CETL) for the Delivery Year, as determined by the RTEP process. This internal resource requirement is expressed as a percentage of the Unforced Capacity Obligation based on Preliminary LDA/Zonal Peak Load Forecast multiplied by FPR to determine the Amount of Internal Resources (UCAP MWs) Required by the FRR LSE in the LDA.

Capacity Transfer Rights (CTRs) are implicitly allocated to the FRR LSE in the determination of the Percentage of Internal Resources Required in an LDA. An FRR LSE will not be eligible for any explicit CTRs.

11.6 Conditions on Sales by FRR Entities

If an FRR LSE has not satisfied a Threshold Quantity, they may not offer to sell capacity in excess of the amount needed to satisfy Preliminary/Final Daily Unforced Capacity Obligation bilaterally into RPM or in RPM Auctions; however, they may offer to sell such excess capacity to an External Party (i.e., delist) or to an FRR Entity. If an FRR LSE has satisfied a Threshold Quantity, they may offer to sell capacity in excess of the amount needed to satisfy their Threshold Quantity bilaterally into RPM or in RPM Auctions up to a Sales Cap Amount. The Sales Cap and other rules related to sales by FRR Entities are shown below:

- The Sales Cap Amount is equal to the lesser of (a) 0.25 * Preliminary Unforced Capacity Obligation or (b) 1300 MW.
- If an FRR LSE has satisfied a Threshold Quantity, they may offer to sell capacity in excess of the Preliminary/Final Daily Unforced Capacity Obligation to an External Party (i.e., delist) or to another FRR Entity. In order for this type of sale to proceed, the Seller's FRR Capacity Commitments on the unit must be reduced.
- Sell offers in RPM Auctions and bilateral unit-specific transactions will be subject to offer and bilateral transaction checks to ensure that the seller does not violate any "Conditions on Sales by FRR Entities".
- A sell offer in an RPM Auction that violates any "Conditions on Sales by FRR Entities" will be rejected.

If an FRR LSE serves load under the FRR Alternative and additional load under the RPM, the LSE may self-supply capacity resources in RPM Auctions and avoid the requirement to satisfy a Threshold Quantity; however, the MW amount of their sell offer(s) may not exceed a Self-Supply Offer Cap Amount, where:

- The Self-Supply Offer Cap Amount is the lesser of (a) 0.25 * (FRR Preliminary Daily Unforced Capacity Obligation + RPM Expected UCAP Obligation) or (b) 200 MW.
- An LSE's RPM Expected UCAP Obligation in a Zone is equal to the LSE's allocation of the Zonal Weather Normalized Summer Peak for summer four years prior to the Delivery Year (i.e., an Obligation Peak Load) * (Preliminary Zonal Peak Load Forecast/Zonal Weather

Normalized Summer Peak for summer four years prior to Delivery Year) * Forecast Pool Requirement.

11.7 Delivery Year Activity

11.7.1 Final Daily Unforced Capacity Obligation

The Final Daily Unforced Capacity Obligation of an LSE in a zone equals the LSE's Final Obligation Peak Load in the zone * the Final Zonal FRR Scaling Factor * the Forecast Pool Requirement. The Forecast Pool Requirement updated for the RPM Third Incremental Auction will be used in determining the Final Daily Unforced Capacity Obligation.

The Final Daily Unforced Obligation shall be reduced by the committed Nominal PRD Value associated with such load that was approved by PJM in advance of the BRA and Third IA for such Delivery Year, multiplied by final Forecast Pool Requirement for the Delivery Year.

A reduction in the Daily Unforced Capacity Obligation is applicable in the case of annexation of service territory where the FRR load is acquired by a party that has not elected FRR alternative.

11.8 Deficiency Charges & Penalties

11.8.1 FRR Capacity Resource Deficiency Charges

An LSE participating in the FRR Capacity Plan Alternative will pay a FRR Capacity Resource Deficiency Charge in the delivery year for any shortage of resources to meet the Final Daily Unforced Capacity Obligation and the Amount of Internal Resources Required in an LDA.

A shortage/excess of resources to meet the Amount of Internal Resources Required in an LDA is calculated by comparing an LSE's Daily LDA FRR Resource Position to the Amount of Internal Resources Required in an LDA. If the Daily LDA FRR Resource Position is less than the Amount of Internal Resources Required in an LDA, a FRR Capacity Resource Deficiency Charge for this shortage will be assessed.

A shortage/excess of resources to meet the Final Daily Unforced Capacity Obligation is calculated by comparing an LSE's Daily Total FRR Resource Position to their Final Daily Unforced Capacity Obligation. If the Daily Total FRR Resource Position is less than Final Daily Unforced Capacity Obligation, a deficiency charge for this shortage less the shortage calculated for failure to satisfy the Amount of Internal Resources Required in the LDA will be assessed.

Through the 2024/2025 Delivery Year, the FRR Capacity Resource Deficiency Charge is equal to 1.2 times the Capacity Resource Clearing Price resulting from all RPM Auctions for such Delivery Year for the LDA encompassing such zone, weight-averaged for the Delivery Year based on the prices established and the quantities cleared in such auctions, multiplied by the shortage. The weighted average resource clearing price for the LDA will be calculated

considering all cleared MWs in RPM Auctions for the Delivery Year and such weighted average resource clearing price will apply to all shortages for the Delivery Year. Starting with the 2025/2026 Delivery Year, the FRR Capacity Resource Deficiency Charge is equal to the price level corresponding to Point (1) of the Variable Resource Requirement curve for the Locational Deliverability Area encompassing the Zone of the FRR Entity, multiplied by the shortage. FRR Capacity Resource Deficiency Charges are assessed daily and billed weekly.

11.8.2 Transmission Upgrade Delay

If a Qualifying Transmission Upgrade is not completed by the start of the Delivery Year and the upgrade was not replaced with an equivalent amount of Capacity Resources in the LDA into which the import capability was to be increased, then the Amount of Internal Capacity Resources Required in an LDA will be increased and the LSE may be assessed a FRR Capacity Resource Deficiency Charge.

11.8.3 Deleted

11.8.4 Generation Resource Rating Test Failure Charge

All generation resources that have FRR Capacity Plan Commitments are subject to Capacity Testing for both the Summer and Winter Periods.

RPM Business Rules regarding the Capacity Testing and Generation Resource Rating Test Failure Charges apply to the FRR Alternative.

11.8.5 Load Management Test Compliance

DR Resource providers are required to simultaneously test all of their non-dispatched registrations in a zone in the absence of being dispatched by PJM for an Emergency Action that triggers a Non-Performance Assessment during the Delivery Year.

Please see Section 8.7 of this manual for details on Load Management Test Compliance.

11.8.6 Non-Performance Charge/Bonus Performance Credit

An FRR Entity that elected to be subject to financial non-performance assessment as opposed to physical non-performance assessments will be subject to Non-Performance Assessment Charge for each resource committed to the FRR Capacity Plan or price responsive demand committed to reduce the FRR Entity's unforced capacity obligation that had a Performance Shortfall for a Performance Assessment Interval. If a resource committed to the FRR Capacity Plan or price responsive demand committed to reduce the FRR Entity's unforced capacity obligation had Bonus Performance for a Performance Assessment Interval, such resource or price responsive demand will be eligible for Bonus Performance Credits.

Please see Section 9.1.11 of this manual for details on Non-Performance Charge/Bonus Performance Credit.

11.8.7 Physical Non-Performance Assessment

An FRR Entity that elected to be subject to physical non-performance assessment for resources committed to the Delivery Year FRR Capacity Plan or price responsive demand committed to reduce the FRR Entity's unforced capacity obligation as opposed to financial non-performance assessment for such resources will be required to update the subsequent Delivery Year's FRR Capacity Plan and commit additional Capacity Performance Resources or Seasonal Capacity Performance Resources beyond the amount of Capacity Performance Resources required for the subsequent Delivery Year as a penalty for those resources committed to the FRR Capacity Plan that experienced Performance Shortfalls for Performance Assessment Interval during the relevant Delivery Year.

For each Performance Assessment Interval, the Actual Performance and Expected Performance of each resource contained in an FRR Entity' Capacity Plan will be determined according to the rules and formulas described in the Non-Performance Assessment section 8.4A,and for such interval, a net Performance Shortfall associated with FRR commitments [33]shall be determinedfor Capacity Performance Resources. . The net Performance Shortfall for Capacity Performance Resources shall also include the performance of Seasonal Capacity Performance Resources included in the FRR Capacity Plan and include the performance of price responsive demand committed to reduce the FRR Entity's unforced capacity obligation.

The FRR Entity's net Performance Shortfall among Capacity Performance Resources and price responsive demand , if any, for each Performance Assessment Interval shall by multiplied by a rate of 0.00139 MWs/Performance Assessment Interval [i.e., 0.5 MWs/30 PAHs/12 intervals per hour]] to establish the additional MW of Capacity Performance Resources that such FRR Entity must add to its FRR Capacity Plan for the following Delivery Year. The maximum additional MW required by the FRR Entity as a result of non-performance from the FRR Entity's Capacity Performance Resources during a Delivery Year shall not exceed 50% of the MW quantity of the Capacity Performance Resources committed in the FRR Capacity Plan for such Delivery Year and price responsive demand committed for such Delivery Year .

The additional MWs of Capacity Performance Resources required for Performance Assessment Intervals (PAIs) that occur during February through May of the Delivery Year shall be committed to the FRR Entity's FRR Capacity Plan for the remainder of the following Delivery Year by established deadlines below.

- February PAIs: by July 1 of the following Delivery Year
- March PAIs: by August 1 of the following Delivery Year
- April PAIs: by September 1 of the following Delivery Year

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[33] If a market participant has both RPM commitments and FRR commitments on a resource, the final Shortfall MW or Bonus MW on a resource will be allocated to RPM and FRR commitments on a pro-rata basis based on the amount of RPM and FRR CP commitments in unforced capacity terms.

- May PAIs: by October 1 of the following Delivery Year

11.9 Allocation of Deficiency Charges

The Daily FRR Capacity Resource Deficiency Charges, FRR Transmission Upgrade Delay Penalties, Generation Resource Rating Test Failure Charges, and Load Management Test Failure Charges are distributed on a pro-rata basis to the LSEs in the RTO that were charged an RPM Locational Reliability Charge.

Daily Capacity Resource Deficiency Charges, Transmission Upgrade Delay Penalties, Generation Resource Rating Test Failure Charges, and Load Management Test Failure Charges are allocated on a pro-rata basis to RPM LSEs based on their daily unforced capacity obligation.

11.10 Auction Specific MW Transactions

LSEs that elect the FRR Alternative may report Auction Specific MW Transactions if they have cleared capacity in RPM Auctions through the Capacity Exchange system.

The MWs associated with approved Auction Specific MW Transactions do not contribute to the Sales Cap Amount for RPM Auctions described in the FRR Business Rules.

Attachment A: Glossary of Terms

Welcome to the *Glossary of Terms* section of the ***PJM Manual for the Capacity Market***. In this section, you will find the following information:

Adjusted Zonal Capacity Prices – are determined based on the results of RPM Incremental Auctions. Preliminary Zonal Capacity Prices that result from the Base Residual Auction are adjusted to account for the procurement in the RPM Incremental Auctions.

Accredited UCAP is defined in the RAA as the quantity of Unforced Capacity, as denominated in Effective UCAP, that an ELCC Resource is capable of providing in a given Delivery Year.

Auction Specific MW Transactions – are transactions reported to PJM via Capacity Exchange between a buyer and seller that report the transfer of physical MW between the buyer and seller using the Capacity Exchange system and PJM settlement process. Auction Specific MW Transactions are not eligible to be offered in an RPM auction. Auction Specific MW Transactions are settled at the weighted average Resource Clearing Price of the MW supplying the transaction.

Available Transfer Capability (ATC) **–** is the amount of energy above "base case" conditions that can be transferred reliably from one area to another over all transmission facilities without violating any pre- or post-contingency criteria for the facilities in the PJM Control Area under specified system conditions.

Base LDA Unforced Capacity Obligation – is equal to the sum of the Base Zonal Unforced Capacity Obligations for all the zones in an LDA and is the result of the clearing of the Base Residual Auction.

Base Residual Auction (BRA) – allows for the procurement of resource commitments to satisfy the region's unforced capacity obligation and allocates the cost of those commitments among the LSEs through the Locational Reliability Charge.

Base RTO Unforced Capacity Obligation – determined after the clearing of the BRA and is posted with the BRA results. The Base RTO Unforced Capacity Obligation is equal to the sum of the unforced capacity obligation satisfied through the BRA.

Base Unforced Capacity Imported into an LDA – is equal to the Base LDA Unforced Capacity Obligation less the LDAs Unforced Capacity cleared in the Base Residual Auction. This value is used to determine the maximum total amount of Capacity Transfer Rights that are allocated into an LDA in the Base Residual Auction for the Delivery Year.

Base Zonal RPM Scaling Factor – is determined for each zone and is equal to the [(Preliminary Zonal Peak Load Forecast for the Delivery Year divided by the Zonal Weather Normalized Summer Peak for the summer four years prior to the Delivery Years) * ((RTO

Unforced Capacity Obligation Satisfied in Base Residual Auction divided by the (RTO Preliminary Peak Load Forecast * the Forecast Pool Requirement))]. Base Zonal RPM Scaling Factors are posted with the Base Residual Auction results.

Base Zonal Unforced Capacity Obligation – determined for each zone and is equal to the (Zonal Weather Normalized Summer Peak for the summer four years prior to the Delivery Year* Base Zonal RPM Scaling Factor * the Forecast Pool Requirement). Base Zonal Unforced Capacity Obligations are posted with the Base Residual Auction clearing results.

Behind the Meter Generation – a generating unit that delivers energy to load without using the Transmission System or any distribution facilities (unless the entity that owns or leases the distribution facilities consented to such use of the distribution facilities and such consent has been demonstrated to the satisfaction of the Office of Interconnection. Behind the Meter Generation may not include at any time any portion of a generating unit's capacity that is designated as a Capacity Resource or any portion of the output of a generating unit that is sold to another entity for consumption at another electrical location or into the PJM Interchange Energy Market at any time.

Bilateral Market – provides LSEs the opportunity to hedge the Locational Reliability Charge determined through the RPM Auctions by purchasing available capacity in the bilateral market to offer into an RPM Auction. The bilateral market also provides resource providers an opportunity to cover any auction commitment shortages.

Bilateral Unit-Specific Transaction – transaction that enables reporting of the transfer of ownership of a specified amount of installed capacity from a specific unit from one party to another.

Capacity Modification (Cap Mod) – transaction that enables generation owners to request the addition of a new unit or the removal of an existing unit from their resource portfolio in Capacity Exchange, or to request an MW increase or decrease in the summer or winter installed capacity rating of an existing unit.

Capacity Resources – includes megawatts of (i) net capacity from Existing Generation Capacity Resources or Planned Generation Capacity Resources meeting the requirements of Schedules 9 and 10 of the RAA that are or will be owned by or contracted to a Party and that are or will be committed to satisfy that Party's obligations under the RAA, or to satisfy the reliability requirements of the PJM Region, for a Delivery Year; (ii) net capacity from Existing Generation Capacity Resources or Planned Generation Capacity Resources not owned or contracted for by a Party which are accredited to the PJM Region pursuant to the procedures set forth in Schedules 9 and 10 of the RAA; and (iii) load reduction capability provided by Demand Resources or Energy Efficiency Resources that are accredited to the PJM Region pursuant to the procedures set forth in Schedule 6 of the RAA.

Capacity Resource with State Subsidy – (1) a Capacity Resource that is offered into an RPM Auction or otherwise assumes an RPM commitment for which the Capacity Market Seller

receives or is entitled to receive one or more State Subsidies for the applicable Delivery Year; (2) a Capacity Resource that has not cleared an RPM Auction for the Delivery Year for which the Capacity Market Seller last received a State Subsidy (or any subsequent Delivery Year) shall still be considered a Capacity Resource with State Subsidy upon the expiration of such State Subsidy until the resource clears an RPM Auction; (3) a Capacity Resource that is the subject of a bilateral transaction (including but not limited to those reported pursuant to Tariff, Attachment DD, section 4.6) shall be deemed a Capacity Resource with State Subsidy to the extent an owner of the facility supporting the Capacity Resource is entitled to a State Subsidy associated with such facility even if the Capacity Market Seller is not entitled to a State Subsidy; and (4) any Jointly Owned Cross-Subsidized Capacity Resource.

Capacity Emergency Transfer Limit (CETL) – the capability of the transmission system to support deliveries of electric energy to a given area experiencing a localized capacity emergency as determined in accordance with the PJM Manuals.

Capacity Emergency Transfer Objective (CETO) – the amount of electric energy that a given area must be able to import in order to satisfy the locational reliability criteria established in the RAA, M20, and M20A.

Capacity Only Option - participation in Emergency Load Response Program or Pre-Emergency Program which allows, pursuant to Attachment DD of the Tariff and as applicable, a capacity payment for load reductions during a pre-emergency or emergency event.

Capacity Transfer Rights (CTR) – rights used to allocate the economic value of transmission import capability that exists into a constrained LDA. Serve to offset a portion of the Locational Price Adder charged to load in constrained LDAs.

Combination Resource is defined in the RAA as a Generation Capacity Resource that has a component that has the characteristics of a Limited Duration Resource combined with (i) a component that has the characteristics of an Unlimited Resource or (ii) a component that has the characteristics of a Variable Resource.

Control Area – electric power system or combination of electric power systems bounded by interconnection metering and telemetering to which a common generation control scheme is applied in order to:

- Match the power output of the generators within the electric power system(s) and energy purchased from entities outside the electric power system(s) with the load within the electric power system(s)
- Maintain scheduled interchange with other Control Areas
- Maintain the frequency of the electric power system(s)
- Maintain power flows on transmission facilities within appropriate limits to preserve reliability
- Provide sufficient generating capacity to maintain operating reserves.

Cost of New Entry (CONE) – Levelized annual cost in ICAP $/MW-Day of a reference combustion turbine to be built in a specific location.

CTR Settlement Rate – The CTR Settlement Rate ($/MW-day) is equal to the Economic Value of CTRs allocated to LSEs in a zone as a result of the Base Residual Auction and RPM Incremental Auctions divided by the Total CTR MWs allocated to LSEs in the zone.

Daily Unforced Capacity Obligation - equals the LSE's Obligation Peak Load in the zone/area * the Final Zonal RPM Scaling Factor * the Forecast Pool Requirement for an LSE in a zone/ area.

Daily Capacity Resource Deficiency Charge – assessed to party when the Daily RPM Resource Position of its resource is less than the Daily RPM Resource Commitment for such resource on a delivery day. This charge is applicable to generation resource, Demand Resource, Energy Efficiency Resource, Aggregate Resource or Qualified Transmission Upgrade committed to RPM.

Delivery Year – Planning period for which resources are being committed and for which a constant load obligation for the entire PJM region exists. For example, the 2012/2013 Delivery Year corresponds to the June 1, 2012 – May 31, 2013 Planning Period.

Demand Resource – an Annual Demand Resource or Summer-Period Demand Resource with a demonstrated capability to provide a reduction in demand or otherwise control load in accordance with the requirements of RAA, Schedule 6. A Demand Resource may be an existing or planned resource.

Demand Resource Modification (DR Mods) – transaction submitted by PJM to track an increase or decrease of the nominated value of the Demand Resource in a party's resource portfolio in Capacity Exchange.

Demand Resource Registration - a registration in the Full Program Option or Capacity Only Option of the Emergency or Pre-Emergency Load Resource Program in accordance with OATT, Attachment K-Appendix, Section 8. A Demand Resource Registration is linked to a Demand Resource.

Effective UCAP is defined in the RAA as a unit of measure that represents the capacity product transacted in the Reliability Pricing Model and included in FRR Capacity Plans. One megawatt of Effective UCAP has the same capacity value of one megawatt of Unforced Capacity.

ELCC Resource is defined in the RAA as a Generation Capacity Resource that is a Variable Resource, a Limited Duration Resource, or a Combination Resource (through the 2024/2025 Delivery Year). Effective with the 2025/2026 Delivery Year, an ELCC Resource is a Generation Capacity Resource or a Demand Resource.

Electric Cooperative – an entity owned in cooperative form by its customers that is engaged in the generation, transmission, and/or distribution of electric energy.

Electric Distribution Company (EDC) – PJM Member that owns or leases with rights equivalent to ownership electric distribution facilities that are used to provide electric distribution service to electric load within the PJM Control Area.

Emergency – an abnormal system condition requiring manual or automatic action to maintain system frequency, or to prevent loss of firm load, equipment damage, or tripping of system elements that could adversely affect the reliability of an electric system or the safety of persons or property; a fuel shortage requiring departure from normal operating procedures in order to minimize the use of such scare fuel; or a condition that requires implementation of emergency procedures as defined in the PJM Manuals.

End Use Customer – a member that is a retail end-user of electricity within the PJM region.

Equivalent Demand Forced Outage Rate (EFORd) – is a measure of the probability that generating unit will not be available due to a forced outages or forced deratings when there is a demand on the unit to generate. See Generator Resource Performance Indices Manual (M-22) for equation.

Equivalent Demand Forced Outage Rate (EFORd-5) (Prior to the 2025/2026 Delivery Year)– is EFORd determined based on five years of outage data through September 30 prior to the Delivery Year. This is an index similar to EFORd that is the basis for a unit's UCAP value for the Delivery Year, and it includes the events that are outside management control (OMC events).The index is calculated using Generator Availability Data System (GADS) data in PJM. If a generating unit does not have a full 5 years of history, the EFORd-5 will be calculated using class average EFORd and the available history as described in Reliability Assurance Agreement, Schedule 5, Section C. The class average EFORd will be used for a new generating unit. The class average EFORds that are used by PJM to calculate a unit's EFORd-5 are posted to the PJM website by November 30 prior to the Delivery Year.

Effective EFORd (Prior to the 2025/2026 Delivery Year)– the most recently calculated EFORd that has been bridged to the Capacity Exchange system. During the Delivery Year, the Effective EFORd is based on forced outage data from the October through September period prior to the Delivery Year. This is the basis for a unit's UCAP value, and it includes the events that are outside management control (OMC events..

FERC – Federal Energy Regulatory Commission or any successor federal agency, commission or department.

Final RTO Unforced Capacity Obligation –The Final RTO Unforced Capacity Obligation is equal to the RTO unforced capacity obligations satisfied through all RPM Auctions for the Delivery Year. The RTO unforced capacity obligation through all RPM Auctions is equal to the

total MWs cleared in PJM Buy Bids in RPM Auctions less the total MWs cleared in PJM Sell Offers in RPM Auctions.

Final Zonal Capacity Prices – are the capacity prices assessed to RPM Load Serving Entities through the RPM Locational Reliability Charge. The Final Zonal Capacity Prices are determined by PJM after the Third Incremental Auction. Final Zonal Capacity Prices reflect the final price adjustments that may be necessary to account for any granted requests for relief from Capacity Resource Deficiency Charges due to permanent departure of load or to account for Non-Viable MWs for any transition provisions that are in effect for the Delivery Year.

Final Zonal RPM Scaling Factors – used in determining an LSE's Daily Unforced Capacity Obligation. A Final Zonal RPM Scaling Factor for a zone is equal to the Final Zonal Unforced Capacity Obligation divided by (FPR times the Zonal Weather Normalized Peak for the summer prior to the Delivery Year). The Final Zonal RPM Scaling Factors are posted with the results of the final Incremental Auction.

Final Zonal Unforced Capacity Obligation – The Final Zonal Unforced Capacity Obligation is equal to the zonal allocation of the Final RTO Unforced Capacity Obligation and is allocated to the zones on a pro-rata basis based on the Final Zonal Peak Load Forecasts. The Final Zonal UCAP Obligations are determined after the clearing of the final Incremental Auction for the Delivery Year.

Firm Transmission Service – transmission service that is intended to be available at all times to the maximum extent practicable, subject to an emergency, and unanticipated failure of a facility, or other event beyond the control of the owner or operator of the facility, or other event beyond the control of the owner or operator of the facility or the Office of the Interconnection.

Fixed Resource Requirement (FRR) – an alternative method for a Party to satisfy its obligation to provide Unforced Capacity. Allows an LSE to avoid direct participation in the RPM Auctions by meeting their fixed capacity resource requirement using internally owned capacity resources.

Flexible Self-Scheduled Resources – are resources specified by an LSE in the Base Residual Auction to provide a mechanism to manage quantity uncertainty related to the Variable Resource Requirement. For each resource-specific sell offer, the LSE must designate a flexible self-scheduling flag as well as an offer price that will be utilized in the market clearing in the event the resource is not needed to cover a specified percentage of the LSE's capacity obligation. Flexible self-scheduled resources will automatically clear the auction if they are needed to supply the LSE's resulting capacity obligation.

Forecast Pool Requirement (FPR) – the amount equal to one plus the unforced reserve margin (stated as a decimal number) for the PJM Region.

FRR Capacity Plan – a long-term plan for the commitment of Capacity Resources to satisfy the capacity obligations of a Party that has elected the FRR alternative.

FRR Service Area – the service territory of an IOU as recognized by state law, rule, or order; the service area of a Public Power Entity or Electric Cooperative as recognized by franchise or other state law, rule, or order; or a separately identifiable geographic area that is bounded by wholesale metering, or similar appropriate multi-site aggregate metering, that is visible to and regularly reported to the Office of Interconnection or an EDC who agrees to aggregate the meters' load data for the FRR Service Area and regularly report the information to the Office of Interconnection or for which the FRR Entity has or assumes the obligation to provide capacity for all load (including load growth) within the area excluding the load of Single-Customer LSEs that are FRR Entities. In the event that the service obligations of an Electric Cooperative or Public Power Entity are not defined by geographic boundaries but by physical connections to a defined set of customers, the FRR Service Areas is defined as all customers physically connected to transmission or distribution facilities of the Electric Cooperative or Public Power Entity within an area bounded by appropriate wholesale aggregate metering as described above.

Full Requirements Service – wholesale service to supply all of the power needs of a LSE to serve end-users within the PJM Region that are not satisfied by its own generation facilities.

Full Program Option - participation in Emergency Load Response Program or Pre-Emergency Program which allows, pursuant to Attachment DD of the Tariff and as applicable, (i) an energy payment for load reductions during a pre-emergency or emergency event, and (ii) a capacity payment for load reductions during a pre-emergency or emergency event.

Generation Capacity Resource – A Generating Facility, or the contractual right to capacity from a specified Generating Facility, that meets the requirements of RAA, Schedule 9 and RAA, Schedule 10, and, for Generating Facilities that are committed to an FRR Capacity Plan, that meets the requirements of RAA, Schedule 8.1. A Generation Capacity Resource may be an Existing Generation Capacity Resource or a Planned Generation Capacity Resource.

Generation Owner – a Member that owns or leases with rights equivalent to ownership facilities for the generation of electric energy that are located within the PJM Region. Purchasing all or a portion of the output of a generation facility is not sufficient to qualify a Member as a Generation Owner.

Generator Forced Outage – an immediate reduction in output or capacity or removal from service of a generating unit by reason of an Emergency or threatened Emergency, unanticipated failure, or other cause beyond the control of the owner or operator of the facility, as specified in the relevant portions of the PJM Manuals. A reduction in output or removal from service of a generating unit in response to changes in market conditions does not constitute a Generator Forced Outage.

Generation Interconnection Agreement – an agreement among the Transmission Provider, a Project Developer, and applicable to a Generation Interconnection Request or Transmission Interconnect Request.

Generator Maintenance Outage – the scheduled removal from service of a generating unit in order to perform repairs on specific components of the facility, if removal of the facility qualifies as a maintenance outage.

Generator Planned Outage – the scheduled removal from service of a generating unit for inspection, maintenance or repair with the approval of the office of the Interconnection.

Incremental Auctions – Allow for an incremental procurement/release of resource commitments to satisfy an increase/decrease in the RTO/LDA Reliability Requirements through PJM Buy Bids/Sell Offers. Allows a resource provider to submit a Sell Offer to procure replacement capacity to cover commitment shortfalls due to a generation resource cancellation, delay, derating, EFORd increase, Accredited UCAP Factor decrease, or decrease in the unforced capacity value of a Demand Resource or Energy Efficiency Resource.

Incremental Capacity Transfer Rights – allocated to transmission expansion projects associated with new generation interconnection that were required to meet PJM Deliverability requirements and to Merchant Transmission Expansion projects and are applicable to all such projects that have gone through the PJM interconnection process since the beginning of the PJM RTEPP in 1999. Such incremental Capacity Transfer Rights allocation is based on the incremental increase in import capability across a Locational Constraint that is caused by the transmission facility upgrade. Incremental capacity transfer rights associated with Incremental Rights-Eligible Required Transmission Enhancements are allocated. Incremental Rights-Eligible Required Transmission Enhancements may include Regional Facilities and Necessary Lower Voltage Facilities, and Lower Voltage Facilities.

Installed Capacity (ICAP) – value determined in accordance with PJM's Rules and Procedures of the Determination of Generating Capacity in M21, M21A, and M21B. For an ELCC Resource through the 2024/2025 Delivery Year, the term "ICAP" in this manual refers to the lesser of the Accredited UCAP or the resource's CIRs plus any awarded transitional MWs.

Installed Reserve Margin (IRM) – used to establish the level of installed capacity resources that will provide an acceptable level of reliability consistent with the Reliability Principles and Standards. The IRM is determined by PJM in accordance with the PJM Resource Adequacy Analysis Manual (M-20) and (M-20A). The IRM is approved and posted prior to its use in an RPM Auction for the Delivery Year.

Investor Owned Utility (IOU) **–** an entity with substantial business interest in owning and/or operating electric facilities in any two or more of the following three asset categories: generation, transmission, distribution.

Jointly Owned Cross-Subsidized Capacity Resource – a Capacity Resource that is supported by a facility that is jointly owned, where at least one owner is entitled to or receives a State Subsidy associated with such Capacity Resource, and therefore shall be considered a Capacity Resource with State Subsidy; provided however, in the event that the material rights and obligations of such generating facility are in pari passu, meaning that such rights and

obligations are allocated among the owners pro rata based on ownership share, only Capacity Resources of those owners entitled to receive or receiving a State Subsidy shall have their share of such resource considered a Capacity Resource with a State Subsidy and Capacity Resources of owners not entitled to a State Subsidy shall not be considered a Capacity Resource with a State Subsidy. Each of these designations may be overcome by either Capacity Market Seller demonstrating to the Office of Interconnection, with advice and input from the Market Monitoring Unit, that there is no cross-subsidization or the Office of the Interconnection, with review and input from the Market Monitor, finds based on sufficient evidence, that there is cross-subsidization.

Limited Duration Resource is defined in the RAA as a Generation Capacity Resource that is not a Variable Resource, that is not a Combination Resource, and that is not capable of running continuously at Maximum Facility Output for 24 hours or longer. A Capacity Storage Resource is a Limited Duration Resource.

Load Management – is the ability to reduce metered load, either manually or automatically, by the customer, after a request from the resource provider which holds the Load management rights or its agent.

Load Serving Entity (LSE) – any entity (or the duly designated agent of such an entity), including a load aggregator or power marketer that (a) serves end-users within the PJM Control Area, and (b) is granted the authority or has an obligation pursuant to state or local law, regulation or franchise to sell electric energy to end-users located within the PJM Control Area.

Locational Constraints – localized capacity import capability limitations that are caused by transmission facility limitations, voltage limitations or stability limitations that are identified for a Delivery Year in the PJM Regional Transmission Expansion Planning Process (RTEPP) prior to each Base Residual Auction. Such Locational Constraints are included in the RPM to recognize and to quantify the locational value of capacity.

Locational Deliverability Area (LDA) – sub-regions used to evaluate locational constraints. LDAs include EDC zones, sub-zones, and combination of zones.

Locational Price Adder – an addition to the marginal value of unforced capacity within an LDA as necessary to reflect the price of resources required to relieve the applicable binding locational constraints.

Locational Reliability Charge – Fee applied to each LSE that serves load in PJM during the delivery year. Equal to the LSEs Daily Unforced Capacity Obligation multiplied by the applicable Final Zonal Capacity Price.

Nested LDAs – when an aggregate of Zones, a Zone and its sub-zones are constrained LDAs, the LDAs are referred to as “Nested”. When LDAs are nested, the Zonal CTR calculations include allocation of CTRs from RTO to aggregate of Zones as well as CTRs from aggregate of Zones to the Zone.

Net Energy & Ancillary Services (E&AS) Offset – is used to offset the value of Cost of New Entry (CONE) to determine the net value of CONE. This value is calculated using the historical averages of energy revenue data for a reference combustion turbine and an assumed value for ancillary services revenues as set forth in OATT. The energy revenues are calculated using a historical average of the three most recent calendar years preceding the Base Residual Auction.

New Entry Pricing – is an incentive provided to a Planned Generation Resource where the size of the new entry is significant relative to the size of the LDA and there is a potential for the clearing price to drop when all offer prices including that of the new entry are capped. This allows Planned Generation Resources to recover the amount of its cost of entry-based offer for up to two additional consecutive years, under certain conditions, and to set the clearing price of all resources within that LDA for all three years.

New Service Request – Interconnection Request.

Nominated DR Value – the nominated value of a Demand Resource is the value of the maximum load reduction and the process to determine this value is consistent with the process for the determination of the capacity obligation for the customer. Tthe maximum load reduction for Capacity Performance registration also takes into consideration the Winter Peak Load for the customer. The maximum load reduction for each resource is adjusted to include system losses.

Non-Retail Behind the Meter Generation – Behind the Meter Generation that is used by municipal electric systems, electric cooperatives, and electric distribution companies to serve load.

Non-Zone Load – the load that is located outside of the PJM Region served by a PJM Load Serving Entity using PJM internal resources. Non-Zone Load is included in the load of the Zone from which the load is served.

Obligation Peak Load – the summation of the weather normalized coincident summer peaks for the previous summer of the end-users for which the Party was responsible on that billing day.

Office of the Interconnection – the employees and agents of PJM Interconnection, L.L.C., subject to the supervision and oversight of the PJM board.

Partial Requirements Service – wholesale service to supply a specified portion, but not all, of the power needs of a LSE to serve end-users within the PJM Region that are not satisfied by its own generating facilities.

Percentage Internal Resources Required – for purposes of an FRR Capacity Plan, the percentage of the LDA Reliability Requirement for an LDA that must be satisfied with Capacity Resources located in that LDA.

Planned Demand Resource – a Demand Resource that does not currently have the capability to provide a reduction in demand or to otherwise control load, but that is scheduled to be capable of providing a reduction or control on or before the start of the Delivery Year for which the resource is to be committed.

Planned Generation Capacity Resource – a Generation Capacity Resource participating in the generation interconnection process for which Interconnection Service is scheduled to commence on or before the first day of the Delivery Year for which the resource is to be committed. At a minimum, planned generation resources greater than 20 MW must be in the Phase III System Impact Study and planned generation resources less than or equal to 20 MW must be in the Phase II System Impact Study for the unit to participate in the Base Residual Auction. Generation Interconnection Agreement (GIA) or Wholesale Market Participant Agreement (WMPA) must be executed prior to any Incremental Auctions for the corresponding Delivery Year.

Planning Year – Annual period from June 1 to May 31 (also may be referred to as Planning Period).

Pool-Wide Average EFORd (Prior to the 2025/2026 Delivery Year)**–** average of the forced outage rates, weighted for unit capability and expected time in service, attributable to all units that are planned to be in service during the delivery year. Determined by PJM and is approved and posted by February 1 prior to its use in the Base Residual Auction for the Delivery Year. OMC events are considered in the EFORd values used to calculate Pool-Wide Average EFORd.

Public Power Entity – any agency, authority, or instrumentality of a state or of a political subdivision of a state, or any corporation wholly owned by any one or more of the above, that is engaged in the generation, transmission, and/or distribution of electric energy.

Qualifying Transmission Upgrade (QTU) – a proposed enhancement or addition to the Transmission System that will increase the Capacity Emergency Transfer Limit (CETL) into an LDA by a megawatt quantity certified by PJM. A Qualified Transmission Upgrade is scheduled to be in service on or before the commencement of the first Delivery Year for which such upgrade is the subject of a Sell Offer in the Base Residual Auction. Prior to the conduct of the Base Residual Auction for such Delivery Year, at a minimum the Upgrade Customer must be in the Facilities Study phase for their proposed transmission upgrade.

Regional Transmission Expansion Planning Process (RTEPP) – is PJM's comprehensive annual process that examines the three interrelated components of electric power system reliability: load, generation, and transmission. The RTEP Process employs a range of planning study tools and methodologies to analyze and assess each component to ensure that reliability remains firm. The RTEP Process is designed to meet established reliability criteria, keep markets robust and competitive, and ensure stable operations.

Regional Transmission Owner (RTO) – Each entity that owns, leases, or otherwise has a possessory interest in facilities used for the transmission of electric energy in interstate

commerce or that provides Transmission that is a party to the PJM Transmission Owners Agreement and PJM Operating Agreement

Reliability Pricing Model (RPM) – is PJM's resource adequacy construct. The purpose of RPM is to develop a long term pricing signal for capacity resources and LSE obligations that is consistent with the PJM Regional Transmission Expansion Planning Process (RTEPP). RPM adds stability and a locational nature to the pricing signal for capacity.

Resource Clearing Price – is the clearing price in the Base Residual Auction or Incremental Auctions as determined by optimization algorithm for each auction. The Resource Clearing Price within an LDA is equal to the sum of (1) the marginal value of system capacity; and (2) the Locational Price Adder, if any, for the LDA. The Resource Clearing Price for Capacity Performance Resources in the Unconstrained Market Area is the marginal value of system capacity. PJM posts the Resource Clearing Prices for all resources that clear in the Base Residual Auction and all Buy Bids and Sell Offers that clear in the Incremental Auctions.

RPM Resource Commitment – MWs committed from a Capacity Resource to RPM as a result of such Capacity Resource clearing or receiving make-whole MWs in a Delivery Year RPM Auction(s), being specified as a replacement resource in a Replacement Capacity transaction(s), or being specified as the source of a Locational UCAP transaction(s).

RTO Unforced Capacity Obligation – established in the BRA and is used to determine the Base Zonal RPM Scaling Factors to use in determining Base Zonal Unforced Capacity Obligation.

RTO Weather Normalized Summer Peak – the sum of the Zonal Weather Normalized Summer Coincident Peaks.

Self-Scheduled Resources – are resources specified by a resource provider in the Base Residual Auction to provide a mechanism to guarantee that the resource will clear in the Base Residual Auction. For each resource-specific sell offer, if a resource is designated as self-scheduled by the resource provider, the minimum and maximum MW amounts specified must be equal and the sell offer price will be set to zero. Self-Scheduled resources will be cleared first in the Base Residual Auction, and cannot set the clearing price as the marginal resource, since these resources lack flexibility.

State Subsidy – a direct or indirect payment, concession, rebate, subsidy, nonbypassable consumer charge, or other financial benefit that is as a result of any action, mandated process, or sponsored process of a state government, a political subdivision or agency of a state, or an electric cooperative formed pursuant to state law, and that (1) is derived from or connected to the procurement of (a) electricity or electric generation capacity sold at wholesale in interstate commerce, or (b) an attribute of the generation process for electricity or electric generation capacity sold at wholesale in interstate commerce; or (2) will support the construction, development, or operation of a new or existing Capacity Resource; or (3) could have the effect of allowing the unit to clear in any PJM capacity auction. Notwithstanding the foregoing, State

Subsidy shall not include (a) payments, concessions, rebates, subsidies, or incentives designed to incent, or participation in a program, contract or other arrangement that utilizes criteria designed to incent or promote, general industrial development in an area or designed to incent siting facilities in that county or locality rather than another county or locality; (b) state action that imposes a tax or assesses a charge utilizing the parameters of a regional program on a given set of resources notwithstanding the tax or cost having indirect benefits on resources not subject to the tax or cost (e.g., Regional Greenhouse Gas Initiative); (c) any indirect benefits to a Capacity Resource as a result of any transmission project approved as part of the Regional Transmission Expansion Plan; (d) any contract, legally enforceable obligation, or rate pursuant to the Public Utility Regulatory Policies Act or any other state-administered federal regulatory program (e.g., the Cross-State Air Pollution Rule); (e) any revenues from the sale or allocation, either direct or indirect, to an Entity Providing Supply Services to Default Retail Service Provider where such entity's obligations was awarded through a state default procurement auction that was subject to independent oversight by a consultant or manager who certifies that the auction was conducted through a non-discriminatory and competitive bidding process, subject to the below condition, and provided further that nothing herein would exempt a Capacity Resource that would otherwise be subject to the minimum offer price rule pursuant to this Tariff; (f) any revenues for providing capacity as part of an FRR Capacity Plan or through bilateral transactions with FRR Entities; or (g) any voluntary and arm's length bilateral transaction (including but not limited to those reported pursuant to Tariff, Attachment DD, section 4.6), such as a power purchase agreement or other similar contract where the buyer is a Self-Supply Entity and the transaction is (1) a short term transaction (one-year or less) or (2) a long-term transaction that is the result of a competitive process that was not fuel-specific and is not used for the purpose of supporting uneconomic construction, development, or operation of the subject Capacity Resource, provided however that if the Self-Supply Entity is responsible for offering the Capacity Resource into an RPM Auction, the specified amount of installed capacity purchased by such Self-Supply Entity shall be considered to receive a State Subsidy in the same manner, under the same conditions, and to the same extent as any other Capacity Resource of a Self-Supply Entity. For purposes of subsection (e) of this definition, a state default procurement auction that has been certified to be a result of a non-discriminatory and competitive bidding process shall:

(i) have no conditions based on the ownership (except supplier diversity requirements or limits), location (except to meet PJM deliverability requirements), affiliation, fuel type, technology, or emissions of any resources or supply (except state-mandated renewable portfolio standards for which Capacity Resources are separately subject to the minimum offer price rule or eligible for an exemption);

(ii) result in contracts between an Entity Providing Supply Services to Default Retail Service Provider and the electric distribution company for a retail default generation supply product and none of those contracts require that the retail obligation be sourced from any specific Capacity Resource or resource type as set forth in subsection (i) above; and

(iii) establish market-based compensation for a retail default generation supply product that retail customers can avoid paying for by obtaining supply from a competitive retail supplier of their choice.

Steady State Period – period of time where the auction schedule follows the proposed three year forward planning dates. The steady-state condition of RPM begins with the 2011/12 Delivery Year.

Transmission Facilities – facilities within the PJM Region that have been approved by or meet the definition of transmission facilities established by FERC; or have been demonstrated to the satisfaction of the Office of Interconnection to be integrated with the PJM Region transmission system and integrated into the planning and operation of the PJM Region to serve all of the power and transmission customers within the PJM Region.

Transmission Owner – a Member that owns or leases, with rights equivalent to ownership, Transmission Facilities. Taking transmission service is not sufficient to qualify a Member as a Transmission Owner.

Unforced Capacity (UCAP) – prior to the 2025/2026 delivery year, the installed capacity rated at summer conditions that are not on average experiencing a forced outage or forced derating, calculated for each generation Capacity Resource based on EFORd data for the 12-month period from October to September without regard to the ownership of or the contractual rights to the capacity of the unit. For an ELCC Resource, the UCAP is the Accredited UCAP of the unit, not to exceed its Capacity Interconnection Rights plus any awarded transitional resource MWs. Effective with the 2025/2026 Delivery Year, for an ELCC Resource that is a Generation Capacity Resource, the UCAP is the Accredited UCAP of the unit, not to exceed its Capacity Interconnection Rights plus any awarded transitional resource MWs.

Unlimited Resource is defined in the RAA as a generating unit having the ability to maintain output at a stated capability continuously on a daily basis without interruption. Through the 2024/2025 Delivery Year, an Unlimited Resource is a Generation Capacity Resource that is not an ELCC Resource.

Variable Resource is defined in the RAA as a Generation Capacity Resource with output that can vary as a function of its energy source, such as wind, solar, run of river hydroelectric power without storage, and landfill gas units without an alternate fuel source. All Intermittent Resources are Variable Resources, with the exception of Hydropower with Non-Pumped Storage.

Variable Resource Requirement Curve (VRR) – defines the maximum price for a given level of Capacity Resource commitment relative to the applicable reliability requirement. VRR Curves are defined for the PJM Region and each of the constrained LDAs within the PJM region.

Weighted Average Resource Clearing Price – the average of the segment-specific Resource Clearing Prices that result in all the auctions for a party's specific Capacity Resource, weighted

by the segment-specific Unforced Capacity cleared for that particular resource. This value is used to determine a party's Daily Deficiency Rate for an individual resource.

Zonal Capacity Price – the price of UCAP in a Zone that an LSE that has not elected the FRR Alternative is obligated to pay for a Delivery Year. Zonal capacity prices are calculated as a result of the clearing of all RPM Auctions for the Delivery Year. A zonal capacity price consists of the following price components: (1) the marginal value of system capacity for the PJM Region; (2) the Locational Price Adder, if any, for such zones in a constrained Locational Deliverability Area (LDA); and (3) an adjustment in the Zone, if required, to account for any resource make-whole payments. *Preliminary Zonal Capacity Prices* are the result of the clearing of the Base Residual Auction. *Adjusted Zonal Capacity Prices* are the result of the clearing of the Base Residual Auction and any Incremental Auction(s). *Final Zonal Capacity Prices* are determined after the Final Incremental Auction for the Delivery Year.

Zonal CTR Credit Rate (Base and Final) – the rate calculated as a ratio of economic value of CTRs to zonal unforced capacity obligation. These rates are calculated as the Base Zonal CTR Credit Rate after the Base Residual Auction and as the Final CTR Credit Rate adjusted for the results of all RPM Auctions. Zonal CTR Credit Rate is subtracted from Zonal Capacity Price to estimate Net Load Price.

Zonal CTR Settlement Rate – a rate calculated as a ratio of economic value of CTRs to total CTRs allocated to LSEs in a zone. This rate is used to settle CTRs by calculating credit for CTRs owned.

Zone – an area within the PJM Region or such areas that may be combined as a result of mergers and acquisitions; or added as a result of the expansion of the boundaries of the PJM Region. A Zone will include any Non-Zone Network Load located outside the PJM Region that is served from inside a particular Zone.

Attachment B: Authorization to Self-Schedule Capacity

Authorization to Self-Schedule Capacity

This Authorization to Self-Schedule Capacity ("Authorization") of _____ ("Owner"), effective this ___ day of _____, 20___, hereby authorizes PJM Interconnection, L.L.C. ("PJM") to self-schedule on its behalf as ("Product type"), the capacity associated with a specific generating unit _____ ("Unit"), which it will own or control for a portion of the delivery year from June 1 to May 31, 20___ to 20___ ("Delivery Year"), with the following other party or parties owning or controlling the Unit for the balance of such delivery year (if known): _____ ("Other Owners"). Owner states that it will own or control the Unit during the period(s) within the Delivery Year from ___/___/___ to ___/___/___ and any additional periods listed hereafter: _____.

Recitals:

WHEREAS, PJM Interconnection, L.L.C. ("PJM") is a Regional Transmission Organization ("RTO") that administers the Reliability Pricing Model ("RPM"), a centralized market for obtaining the electric capacity resources necessary to ensure resource adequacy in its control area;

WHEREAS, a capacity resource must remain available for the entire delivery year in order to be eligible to offer its capacity in RPM auctions;

WHEREAS, an owner may seek to sell capacity in an RPM auction associated with a generating unit that such owner owns or controls for only a portion of the delivery year as result of a transaction specific to such unit commencing or terminating within a delivery year;

WHEREAS, PJM, in order to facilitate participation in its auctions of all capacity resources potentially available, permits owners collectively to authorize PJM to self-schedule the Unit on their behalf capacity owned or controlled by such owner for a portion of the delivery year,

Authorization

NOW, THEREFORE, Owner authorizes PJM to self-schedule its Unit during the years during which it will own or control the Unit for only a portion of the identified delivery year(s), and

acknowledges that it understands and accepts the following terms and conditions of this authorization:

1. Each Owner and Other Owner (i) must submit to the PJM-designated electronic mail address a fully prepared and executed Authorization from the Owner and each Other Owner at least 5 business days prior to the opening of the bidding window of an RPM auction and (ii) must submit as the "seller" into the Capacity Exchange electronic interface system a new unit-specific transaction(s) indicating "Self Scheduling Coordinator (SELFSC)" as the "buyer" prior to the opening of the auction bidding window. Owner understands that failure of any Other Owner to satisfy both of these requirements shall preclude a Unit from participation in an RPM auction even where Owner otherwise has otherwise fully complied.
2. Because PJM will use the Unit's current Accredited UCAP Factor in the self-schedule, Owner recognizes that, consequently, the Unit's unforced capacity value may change between the time the Unit is offered into the RPM Auction and the delivery year for which the Unit was self-scheduled.
3. Because PJM will self-schedule the Unit, Owner recognizes that the Unit's offer will always clear an auction and that Owner must accept the applicable clearing price.
4. PJM automatically will transfer to Owner (and each Other Owner) the cleared capacity of the Unit for the portion of the Delivery Year during which it owns or controls the Unit, and that, as the "buyer" in this unit specific transaction, the Owner will for the duration of this period be responsible for any Capacity Resources Deficiency Charges and Non-Performance Assessment Charges that may be assessed (including those resulting from a reduced Accredited UCAP), and, for the duration of the delivery year, its proportional share of any Generation Test Resource Rating Test Failure Charges, or that may be assessed under RPM rules.

The undersigned, having been granted Capacity Exchange Read/Write Access by Owner and duly authorized to act on Owner's behalf, declares to PJM the authority described here above and intends that PJM may rely upon such declaration even to Owner's detriment.

Signed this ____th day of _____, 20____

_____

Signed by:_____Title:_____

Attachment C: Demand Resource Sell Offer Plan

The Demand Resource Sell Offer Plan (DR Sell Offer Plan) is a PJM template document, requiring the information set forth below, together with an accompanying signed PJM Demand Resource Officer Certification Form (DR Officer Certification Form). A completed DR Sell Offer Plan (including a signed DR Officer Certification Form) must be submitted to PJM no later than 15 business days prior to the relevant RPM Auction by Curtailment Service Providers (CSPs) that intend to offer Demand Resources (DR) in RPM Auctions. The DR Sell Offer Plan must provide information that supports the CSP's intended DR Sell Offers and demonstrates that the DR is being offered with the intention that the MW quantity that clears the auction is reasonably expected to be physically delivered through Demand Resource Registrations for the relevant Delivery Year.

The DR Sell Offer Plan encompasses both existing DR and Planned DR. Existing DR is identified as end-use customer sites that the CSP has under contract for the current Delivery Year (i.e. end-use customer sites registered in the PJM DR Hub system for the current Delivery Year)[34] and that the CSP intends to have under contract for the auction Delivery Year. Planned DR is that quantity of the CSP's intended total DR Sell Offer in excess of the CSP's existing DR and is subject to an RPM Credit Requirement. The CSP shall not include Critical Natural Gas Infrastructure in their Plan.

Both the signed DR Officer Certification Form and the completed DR Sell Offer template must be submitted to PJM via email to rpm_hotline@pjm.com no later than 15 business days prior to the relevant RPM auction. PJM will review the DR Sell Offer Plan and notify the CSP via email no later than 10 business days prior to the RPM Auction if another CSP has identified the same end-use customer site(s) in their DR Sell Offer Plan and request supporting documentation, such as a letter of support from the end-use customer indicating that the end-use customer and CSP are likely to execute a contract for the auction Delivery Year. Supporting documentation must be submitted via email to the rpm_hotline@pjm.com no later than 7 business days prior to the RPM Auction. PJM will notify all CSPs via the Capacity Exchange system of the approved DR MW quantity by zone/sub-zone that the CSP is permitted to offer into the RPM Auction no later than 5 business days prior to the RPM Auction.

I. PJM Demand Resource Officer Certification Form

[34] For a Base Residual Auction and a Third Incremental Auction, end-use customer sites registered in the PJM DR Hub system for the subsequent Delivery Year may also be considered as existing DR provided the Demand Resource Registrations are in "Confirmed" status by specified deadlines established by PJM and communicated to CSPs in advance of the DR Sell Offer Plan submittal deadline.

A DR Officer Certification Form is located in Attachment D of Manual 18 and is posted on the PJM web site. A signed DR Officer Certification Form must accompany the DR Sell Offer Plan. The DR Officer Certification Form specifies that the signing officer has reviewed the DR Sell Offer Plan, that the information provided therein is true and correct, and that the MW quantity that clears the auction is reasonably expected to be physically delivered through Demand Resource Registrations for the relevant Delivery Year.

II. DR Sell Offer Plan Template

A DR Sell Offer Plan template (in Excel format) is provided on the PJM web site, and consists of the following three sections:

A. DR Sell Offer Plan Summary

B. Planned DR Details

C. Schedule

A. DR Sell Offer Plan Summary

The DR Sell Offer Plan requires the following information to be provided:

- Company name
- Contact information (name, phone number and email address of submitter)
- Existing Nominated DR Value in ICAP MWs by zone/subzone that CSP intends to offer
- Planned Nominated DR Value in ICAP MWs by zone/subzone that CSP intends to offer

Existing DR is identified by the CSP as end-use customer sites that the CSP has under contract and registered in the PJM eLRS/DR Hub System for the current Delivery Year and that the CSP also intends to have under contract for the auction Delivery Year. Planned DR is identified by the CSP as described in the Planned DR Details section of the DR Sell Offer Plan template. Based on the information provided above, a total Nominated DR Value in MWs will be calculated for each zone/sub-zone as the addition of the Nominated DR Value of existing DR plus the Nominated DR Value of Planned DR. The total Nominated DR Value represents the maximum MW amount that the CSP intends to offer for the zone/sub-zone. Effective with the 2020/2021 Delivery Year, a CSP must apportion the total Nominated DR Value for the zone/sub-zone into the quantity that the CSP intends to offer into the auction as Annual Capacity Performance , the quantity that the CSP intends to offer into the auction as Summer-Period Capacity Performance, and the quantity that the CSP intends to offer into the auction as part of an Aggregate Resource, such that, the sum of such quantities must equal the total Nominated DR Value The actual MW value(s) submitted by a CSP in their Sell Offer(s) for a zone/sub-zone during the auction bidding window may be less than the total Nominated DR Value in their DR Sell Offer Plan Summary.

Certain zones/sub-zones will be pre-identified by PJM as zones for which DR Sell Offers may require additional information to support the plan. Additional information may be required to support DR Sell Offer Plans for zones/sub-zones for which the quantity of cleared zonal/sub-zonal DR from the last BRA exceeds a threshold determined for the applicable LDA group (EMAAC, SWMAAC, Rest of MAAC, or Rest of RTO) as the higher of the maximum DR/ILR quantity registered in eLRS/DR Hub over the past three Delivery Years for the zones in the LDA group or the zonal DR potential quantity for the zones in the LDA group estimated based on a June 2009 FERC Staff Report on "A National Assessment of Demand Response Potential", where DR quantities are expressed in all cases as a percent of the forecasted zonal peak load. This determination of the identified zones is made each year prior to each BRA and is applicable to all auctions conducted for that Delivery Year. Zones or sub-zones remain on the identified list unless the threshold is not exceeded for three consecutive years. Identified zones for a Delivery Year will be posted by PJM to the pjm website no later than December 1 prior to the Base Residual Auction for such Delivery Year. Updates, if any, made to the 2009 FERC Staff Report will be subject to stakeholder review and considered for use in the establishment of thresholds in the future.

For these pre-identified zones/sub-zones, a CSP sell offer threshold is determined for each CSP; and DR sell offer quantities in excess of the CSP sell offer threshold will require site-specific information, as this quantity in excess of the CSP sell offer threshold should reflect Planned DR associated with end-use customer sites that the CSP has a high degree of certainty that it will physically deliver for the Delivery Year. The CSP sell offer threshold is determined as the higher of [(the CSP's maximum DR quantity registered in eLRS/DR Hub for that zone/sub-zone over the past three Delivery Years) or (the CSP's maximum cleared DR quantity for the past three BRAs for that zone/sub-zone) or (10 MW)].

B. Planned DR Details

The Planned DR Details section describes the program or strategy for procuring end-use customers and provides the details and key assumptions behind the development of the Planned DR quantities contained in the CSP's DR Sell Offer Plan. The Planned DR Details section is comprised of three sub-sections.

1. Description and Key Assumptions of Planned DR

The CSP must describe the program(s) that the CSP plans to employ to achieve the Planned Nominated DR Value indicated on the DR Sell Offer Plan Summary. This section must describe key program attributes and assumptions used to develop the Planned Nominated DR Value. This section must include, but is not limited to, discussion of:

- Method(s) of achieving load reduction at customer site(s)
- Equipment to be controlled or installed at customer site(s), if any
- Plan and ability to acquire customers
- Types of customer targeted

- Support of market potential and market share for the target customer base, with adjustments for existing DR customers within this market and the potential for other CSPs targeting the same customers
- Assumptions regarding regulatory approval of program(s), if applicable

2. Planned Nominated DR Value by Customer Segment

For those Planned Nominated DR Values for which an end-use customer site is not identified in section 3 of the Planned DR Details, the CSP must identify the Planned Nominated DR values by zone/sub-zone and by end-use customer segment. End-use customer segments include residential, commercial, small industrial (less than 3 MW), medium industrial (between 3 MW and 10 MW) and large industrial (greater than 10 MW). If known, the CSP may identify more specific customer segments within the commercial and industrial category.

By zone/sub-zone and by end-use customer segment, the CSP must provide estimates of the following information regarding the Planned DR component of the DR Sell Offer Plan:

- Number of end-use customers to be registered for auction Delivery Year
- Average Peak Load Contribution (PLC) per end-use customer in kW
- Average Nominated DR Value per customer in kW

Based on the above provided information, a total Planned Nominated DR Value in MW will be calculated for each end-use customer segment and for each zone/sub-zone. The total Planned Nominated DR values identified by customer segment and aggregated for each zone/sub-zone in Section 2 of the Planned DR Details plus the total Planned Nominated DR Values identified by end-use customer site(s) and aggregated for each zone/sub-zone in Section 3 of the Planned DR Details must equal the total Planned Nominated DR Value for each zone-sub-zone as identified in the DR Sell Offer Plan Summary.

3. Planned Nominated DR Value by End-Use Customer Site

This section must be completed by the CSP when the end-use customer is known at the time of the submittal of the DR Sell Offer Plan. This section must also be completed for DR Sell Offer quantities identified in the DR Sell Offer Plan Summary as requiring site-specific information, since this identified quantity should reflect Planned DR associated with specific end-use customer sites for which the CSP has a high degree of certainty that it will physically deliver for the relevant Delivery Year.

The CSP must provide the following information:

- Customer EDC account number (if known)
- Customer name
- Customer premise address
- Zone/Sub-zone

- Customer segment
- Actual value (if known) or estimate of current PLC and estimate of expected auction Delivery Year PLC in kW
- Estimated Nominated DR Value in kW

In the event that multiple CSPs identify the same end-use customer site, the MWs associated with such site will not be approved for offering into the RPM auction by any of the CSPs, unless it can be supported by evidence, such as a letter of support from the end-use customer indicating that they have been in contact with the CSP and are likely to execute a contract with that CSP for the relevant Delivery Year. In the event that multiple letters of support indicating different CSPs are provided from the end use customer, the MWs associated with the end-use customer site will not be approved for offering into the RPM auction by any of the CSPs.

C. Schedule

The CSP must provide an approximate timeline for procuring end-use customer sites in order to physically deliver the total Nominated DR Value (existing and Planned DR) by zone/sub-zone in the DR Sell Offer Summary. For each zone/sub-zone and for each customer segment, the CSP must specify the cumulative number of customers and the cumulative Nominated DR Value associated with that group of customers that the CSP expects to have under contract by the beginning of each of the full Delivery Years occurring between the time of the auction and the auction Delivery Year.

Attachment D: Demand Resource Officer Certification Form

PJM DEMAND RESOURCE SELL OFFER PLAN OFFICER CERTIFICATION FORM

Market Participant Name: _____ ("Participant")

I, _____, a duly authorized officer of Participant, understanding that PJM Interconnection, L.L.C. ("PJM") and PJM Settlement, Inc. ("PJM Settlement") are relying on this certification as evidence that Participant meets all requirements for participating in PJM's Reliability Pricing Model ("RPM") auctions, as set forth in the PJM Open Access Transmission Tariff ("PJM Tariff"), the Amended and Restated Operating Agreement of PJM Interconnection, L.L.C. ("Operating Agreement"), the Reliability Assurance Agreement Among Load Serving Entities in the PJM Region ("RAA"), and in the PJM Manuals, hereby certify that, as of the date of this certification, to my knowledge and belief:

1. I have reviewed Participant's Demand Resource Sell Offer Plan (the "Plan") and the information supplied to PJM in support of the Plan is true and correct as of the date of this certification.
2. The Participant is submitting the Plan with the reasonable expectation, based upon its analyses as of the date of this certification, to physically deliver all megawatts that clear the RPM Auction through Demand Resource registrations by the specified Delivery Year.
3. This certification does not in any way abridge, expand, or otherwise modify the current provisions of the PJM Tariff, Operating Agreement and/or RAA, or the Participant's rights and obligations thereunder, including Participant's ability to adjust capacity obligations through participation in PJM incremental auctions and bilateral transactions.

Date: _____ By: _____

(Signature)

Print Name:_____ Title:_____

Revision History

Revision 60 (06/01/2025):

- Conforming changes were made to the following sections to incorporate provisions of FERC's CIFP-RA order (ER24-99)
- 8.1 - Overview of Resource Performance Assessments
- 8.3 - Commitment Level Used in Summer/Winter Capability Tests (through the 2024/2025 Delivery Year)
- 8.5 - Summer/Winter Capability Testing
- 8.5.1 - Determination of Unit ICAP Shortfall (through the 2024/2025 Delivery Year)
- 8.5.2 - Determination of Unit ICAP Shortfall (effective with the 2025/2026 Delivery Year)
- 8.5A - Generation Operational Testing
- 9.1.5 - Generation Resource Rating Test Failure Charge
- 9.1.5A - Generation Operational Test Failure Charge
- 9.1.7 - Allocation of Deficiency and Penalty Charges
- Update 5.2 to include preliminary ELCC Class Rating and Accredited UCAP Factors on the auction timeline as approved by the 5/21/25 MRC.

Administrative Change (Pete Langbein approved 02/26/2025):

- Added missing content in Section 8.7.1

Revision 59 (06/27/2024):

- Conforming changes were made to the following sections to incorporate provisions of FERC's CIFP-RA order (ER24-99) and CONE Area 5 order (ER24-462):
- 1.2.2 Participation of Resource Providers
- 2.1.1 Installed Reserve Margin
- 2.1.2 Peak Load Forecasts
- 2.1.3.1 Pool-wide Average EFORd (Through 2024/2025 Delivery Year)
- 2.1.3.2 Pool-wide average Accredited UCAP Factor (Starting with 2025/2026 Delivery Year)
- 2.1.4 Forecast Pool Requirement
- 2.1.5 Effective Load Carrying Capability and ELCC Resources in Capacity Exchange
- 2.2 Role of Load Deliverability in the Reliability Pricing Model
- 2.3 Locational Constraints in the Reliability Pricing Model
- 2.3.1 Locational Constraints in the Reliability Pricing Model
- 2.4 Reliability Requirements

- 3.3 Parameters of the Variable Resource Requirement
- 3.3.1 Cost of New Entry
- 3.4 Plotting the Variable Resource Requirement Curve
- 4.2.1 Existing Generation Capacity Resource – Internal
- 4.2.2 Existing Generation Capacity Resources – External
- 4.2.3 Planned Generation Capacity Resources – Internal
- 4.2.3.1 Binding Notice of Intent to Offer (Effective with the 2025/2026 Delivery Year)
- 4.2.4 Planned Generation Capacity Resources – External
- 4.2.5 Equivalent Demand Forced Outage Rate
- 4.2.7 Accredited UCAP for ELCC Resources
- 4.3.1 Requirements of Load Management Products in RPM
- 4.3.8 Determination of the UCAP Value of Load Management
- 4.4 Energy Efficiency Resources
- 4.6.2 Entering Unit-Specific Bilateral Transactions
- 4.6.3 Exporting a Generation Resource
- 4.6.5 Treatment of Unit-Specific Capacity Transactions that Start/End Mid-Delivery Year
- 4.6.8 Locational Unforced Capacity (UCAP) Transactions
- 4.7.1 Resource Position for Generation Capacity Resources
- 4.7.2 Resource Position for Demand Resources
- 5.2 RPM Auction Timeline
- 5.3. RPM Auction Parameters
- 5.4.1 Resource-Specific Sell Offer Requirements
- 5.4.3 New Entry Pricing Adjustment
- 5.4.4 Sell Offer Caps
- 5.4.8.4 Default MOPR Floor Offer Prices
- 5.7.1 Participation in the Base Residual Auction
- 5.8.1 Participation in the Incremental Auctions
- 8.1 Overview of Resource Performance Assessments
- 8.2.1 Generation (RPM Commitment Compliance)
- 8.2.2 Demand Resources (RPM Commitment Compliance)
- 8.4A Non-Performance Assessment
- 8.7 Load Management Test Compliance
- 8.8 Replacement Resources
- 9.1.9 Non-Performance Charge/Bonus Performance Credit

- 11.1.3 Participation in the FRR Alternative
- 11.2.1 Preliminary Unforced Capacity Obligation
- 11.3 Capacity Plan
- 11.4.1 Resource Portfolio
- 11.4.7 Load Management Products
- 11.8.1 FRR Capacity Resource Deficiency Charges

Revision 58 (11/15/2023):

- Conforming changes for interconnection process (ER22-2110)
- Section 4.7.1, 4.2.6, 4.2.7: RAA updated for Transitional MW (Docket No. ER23-1067-000)
- Section 7.4: Conforming language for Order 841 and Hybrid Order (ER22-1420)
- Section 8.2.2: Remove reference to DR Factor
- Section 3.3 and 3.4: Conforming to approved quad review filing (ER22-2984-000)
- Section 8.4A: Change to PAI Trigger (ER23-1996-000)
- Section 5.4.8.4: Updated Default Gross CONE and Gross ACR for MOPR (ER23-1700)

Revision 57 (07/26/2023):

- Interconnection Process Reform Taskforce nomenclature updates
  - Section 4.2.3: Updated terminology for IPRTF updates
  - Section 4.2.4: Updated terminology for IPRTF updates
  - Section 4.5: Updated terminology for IPRTF updates
  - Section 4.8.2: Updated terminology for IPRTF updates
  - Section 4.8.5: Updated terminology for IPRTF updates
  - Section 4.10: Updated terminology for IPRTF updates
  - Section 5.4.7: Updated terminology for IPRTF updates
  - Section 6.1: Updated terminology for IPRTF updates
  - Section 6.1.2: Updated terminology for IPRTF updates
  - Section 8.8: Updated terminology for IPRTF updates
  - Section 11.4.6: Updated terminology for IPRTF updates
  - Glossary A: Updated terminology for IPRTF updates

Administrative Change (Approved by Peter Langbein 04/28/2023):

- Removed reference to Manual 10 Section 6 in Section 8.5. Justification for this change is due to the decision for Section 6's removal stated in M10 "based on RFC Standard MOD-024-RFC-01, which permits verification of winter gross Real Power capability by adjusting the summer verification, eliminating the need for exemption program. Revisions approved by stakeholders at MRC on November 30, 2009"

Revision 56 (02/09/2023):

- Change to Section 8.8 to allow early replacement actions for export under specific conditions as approved at 11/16/22 MRC.

Revision 55 (02/09/2023):

- Updated section 3A.3 and Attachment C to prohibit Critical Natural Gas Infrastructure

Administrative Change (Approved by Peter Langbein 01/05/2023):

- Section 5.4.8.3: Updated binary pronoun usage (e.g., "his/her" to a gender-neutral equivalent (e.g., "their," etc.) in order to support PJM's diversity, equity and inclusion efforts.

Revision 54 (09/21/2022):

- Periodic Review updates include:
  - Deletion of outdated information in the following sections:
    - Section 1.5
    - Sections 2.1.3, 2.2, 2.3, 2.3.4, 2.4.3, 2.4.3A, 2.4.4, & 2.4.5
    - Sections 3.3.1, 3.3.2, 3.4, 3.5, 3A.1, 3A.2, 3A.3, 3A.4.1, 3A.4.2, 3A.5, 3A.6, 3A.6.2, & 3A.6.2A
    - Sections 4.1, 4.2.2, 4.2.4, 4.2.5, 4.2.6, 4.3.1, 4.3.3, 4.3.4, 4.3.5, 4.3.7, 4.3.8, 4.3.10, 4.4, 4.4.1, 4.4.2, 4.4.3, 4.5, 4.6.2, 4.6.4, 4.6.5, 4.6.6, 4.6.7, 4.6.8, 4.7.1, 4.7.2, 4.7.2, 4.7.3, 4.8.3, 4.8.4, 4.8.5, 4.9, & 4.10
    - Sections 5.3, 5.4.1, 5.4.4, 5.4.5, 5.4.8, 5.5, 5.7.1, 5.7.2, 5.7.3, 5.8.1, 5.8.3, 5.8.5, & 5.9.1
    - Section 6.1.3
    - Section 7.2.2
    - Sections 8.1, 8.2.1, 8.2.2, 8.2.3, 8.3, 8.4, 8.4A, 8.5, 8.6, 8.7, 8.8
    - Sections 9.1.1, 9.1.2, 9.1.3, 9.1.5, 9.1.6, 9.1.9, 9.3.1, 9.3.3, 9.4.2, 9.4.4
    - Sections 11.1.2, 11.3, 11.4.1, 11.4.7, 11.4.8, 11.8.1, 11.8.3, 11.8.5, 11.8.6, & 11.8.7
    - Attachment A: Glossary of Terms
  - Added reference to Section 3.4 for development of VRR Curves (Sections 2.4.4 & 2.4.5)
  - Added missing OVEC zone to CONE Area (Section 3.3.1)
  - Added footnote to clarify the Reliability Requirement used in UCAP quantity equation for points (a), (b), and (c) of VRR Curve excludes any adjustment for PRD or EE (Section 3.4)
  - Clarified VRR Curve is adjusted rightward for EE addback (Section 3.4)

- Clarified information to be verified in Resource Confirmation process to reflect current practice in Capacity Exchange system (Section 4.1)
- Clarified generation resource committed to FRR Capacity Plan must satisfy same qualification requirements as resource offering into RPM Auction (Section 4.2)
- Moved Prior CIL Exception Resource definition from Section 2.3 to this section (Section 4.2.2)
- Clarified load management programs and EE installations are eligible to be committed to FRR Capacity Plan (Section 4.3 & Section.4.4)
- Updated DR Plan deadline from 15 business prior to 30 days prior (Sections 4.3.1, 5.2, 11.4.7, & Attachment C: DR Sell Offer Plan)
- Replaced "annual" product availability with "Capacity Performance" (Section 4.3.10)
- Added Nominated EE Value Template requirement to reflect current practice (Section 4.4)
- Updated EE Modification process to reflect current practice (Section 4.4.3)
- Clarified UCAP Value of CP EE Resource and Summer Period EE Resource (Section 4.4.2)
- Added Generation Resource Rating Test Failure Charge to list of charges applicable to Seller of Auction Specific MW Transaction (Section 4.6.6)
- Added footnote to reference RPM Auction schedule on website for DYs FERC approved a compressed auction schedule (Section 5.2)
- Added Capacity Performance value when missing (Section 8.2.3)
- Clarified party/PJM Weighted Average Resource Clearing Price to consider segment-specific RCPs (Section 9.1.3)
- Clarified LDA Incremental CTR Credit Rate (Section 9.3.4)
- Changed “product-specific” to “segment-specific” in description of price applicable to Auction Specific MW transaction (Section 9.3.5)
- Clarified Capacity Exchange tool functionality (Section 10.1)
- Clarified alternative retail LSE is subject to credit requirement as opposed to FRR Entity for alternative retail LSE’s Planned Resources (Section 11.1.3)
- Corrected the treatment of switched load between FRR Entity and RPM LSEs to be in compliance with RAA (Section 11.2.3)
- Clarified EE Modification submittal process (Section 11.4.9)
- Clarified the requirement to perform Load Management test (Section 11.8.5)
- Added footnote to clarify final Shortfall or Bonus MW will be allocated to RPM and FRR if have both RPM and FRR commitments on resource (Section 11.8.7)
- Clarified definition of DR Mod, EFORd, Effective EFORd, Nominated DR Value, Pool-wide average EFORd, Resource Clearing Price, Weighted Average Resource Clearing Price, and Zonal Capacity Price (Attachment A: Glossary of Terms)

- Administrative updates throughout manual
  - Corrected manual or agreement references
  - Consolidated information
  - Deleted duplicative information
  - Updated tool name to Capacity Exchange
  - Corrected grammar and formatting
- Update the process for Capacity Market Seller to demonstrate written commitment to must-offer requirement for an External Resource via Officer Certification Form as opposed to External Resource Must Offer Agreement (Section 4.2.2)
- Updates to include certain Hybrid Resources in the exemption to the RPM must offer requirement (Sections 4.7.1, 5.4.1, 5.7.1, and 5.8.1)
-

Revision 53 (07/27/2022):

- Conforming revisions for FERC Order ER20-1590-000 issued on September 3, 2020 approving changes to Load Management and Price Responsive Demand testing requirements to make testing more closely simulate actual emergency events. This includes details on scheduling tests, notification of tests, duration of tests and retesting provisions.
  - Section 3A.6.3A establishes the testing requirements for PRD effective with 2023/ 2024 Delivery Year.
  - Section 8.7 modified for Load management testing requirements effective with 2023/ 2024 Delivery Year.

Revision 52 (02/24/2022):

- Update to section 3.3.2 to reflect that Net EAS of the Reference Resource CT is calculated using the forward-looking methodology with application of the 10% adder for only the 2022/ 2023 Delivery Year. The Net EAS is determined using the historical approach and without application of the 10% adder for all other delivery years.
- Update to section 5.4.1 to reflect that sell offers of existing generation capacity resources above $0/MW-Day must seek unit-specific exception or elect to use MSOC based on gross ACR of applicable resource type, if available, effective 9/2/2021. Added language specifying that sellers may elect to use a default offer cap of 1.1 times the BRA RCP for any 3rd IA.
- Updated section 5.4.4 to reflect that the Net EAS of units seeking a net ACR-based exception is calculated using the forward-looking methodology for only the 2022/2023 Delivery Year. The Net EAS is determined by historical net revenues for all other delivery years.
- Updated section 5.4.5 to make clear that this section and its sub-sections which describe the MOPR provisions of Sections 5.14(h) and 5.14(h-1) of Attachment DD of the PJM

OATT are not applicable after the 2022/2023 Delivery Year. Deleted language in section 5.4.5.2 describing consequences of accepting State Subsidy after electing competitive exemption or certifying that resource is not state subsidized.

- Added new section 5.4.8 to describe the MOPR provisions of Section 5.14(h-2) of Attachment DD of the PJM OATT which are effective with the 2023/2023 Delivery Year.

Revision 51 (10/20/2021):

- Updates to Section 2.4.5 to reflect new EE Addback methodology to be used in all RPM Auctions conducted for the 2023/2024 Delivery Year and all subsequent delivery years.

Revision 50 (09/01/2021):

Revision includes:

• Updates to Section 8.4A to clarify Scheduled MW used for Excusal and Bonus purposes in Performance Assessment Interval settlement is calculated using Dispatch Run LMP due to Fast Start Pricing implementation on 9/1/2021.

Revision 49 (08/01/2021):

Revised the following sections to make confirming changes to implement Effective Load Carrying Capability to calculate the capacity value of renewables and storage. Unless otherwise noted, section changes were made to update and clarify terminology usage related to ICAP, UCAP, and EFORd, and replacing the terms “wind” and “solar” with “Variable Resources”:

- New Section 2.1.5 – provides a summary description of ELCC and describes the use of the terms “ICAP” and “UCAP” for ELCC Resources in the context of Manual 18
- 4.2.5 and 4.2.6
- New Section 4.2.7 – provides a summary description of ELCC and describes the use of the terms “ICAP” and “UCAP” for ELCC Resources in the context of Manual 18
- 4.7.1 – clarifies that ELCC Resources may not offer or otherwise provide UCAP MW quantities above their Capacity Interconnection Rights.
- 5.4.1 and 5.4.5.6
- 7.1
- 8.1 – revised the table of generator assessments to reflect rules for Variable Resources
- 8.4
- 8.5
- 8.8 – reflects application of commitment deficiency rules given the Accredited UCAP values of ELCC Resources
- 9.1.1
- 9.1.5 – reflects application of the Daily Generation Resource Rating Test Failure Charge given the Accredited UCAP value of ELCC Resources

- 11.3
- 11.4.1
- Attachment A – added the RAA definitions for several new ELCC-related terms, such as Accredited UCAP, Combination Resource, Variable Resource, ELCC Resource, etc.

Revision 48 (05/26/2021):

- New paragraph in Section 8.4A to clarify treatment of Public Distribution Microgrid Generators that are Generation Capacity Resources for Non-Performance Assessment.
- PRD – Approved as per Docket Nos. ER21-1243--0000 and ER21-1243-001 on 4/28/2021, effective on 06/01/2021:
  - Removed reference to LSE from PRD Provider description (Section 1.2.3)
  - Revised PRD Provider description, changed PRD Credit recipient from LSE to PRD Provider (Section 3A.1)
  - Removed LSE-specific requirements for PRD (Section 3A.4.2)
  - Removed section 3A.4.2.1 - Verification of Retail Rate Structure with LSE
  - Removed reference to LSE (Section 3A.4.2.2)
  - Removed identification of LSE from registration requirement (Section 3A.5)
  - Changed PRD Credit recipient from LSE to PRD Provider (Section 9.4.4)

Revision 47 (01/27/2020):

- Conforming changes were made to the following sections to incorporate provisions of FERC's expanded MOPR order (EL16-49, EL18-178, ER18-1314) and Forward Net EAS order (EL19-58):
  - Section 3.3.2 Demand in RPM
  - Section 5.4.4 Sell Offer Caps
  - Section 5.4.5 Minimum Offer Price Rule (MOPR)
  - Section 8.8 Replacement Resources
  - Attachment A Glossary of Terms

Revision 46 (11/19/2020):

- Section 8.4A – Corrected effective date from 2021/2022 to 2020/2021 Delivery Year for when External Generation Capacity Resources that would have helped resolve the declared Emergency Action are included in a performance assessment in order to conform with the effective date in the OATT.

Administrative Change (06/23/2020):

- Updated manual ownership to Peter Langbein

Revision 45 (05/28/2020):

- Conforming revisions for FERC Order ER20-271-001 issued on February 28, 2020 to clarify that Price Responsive Demand (PRD) registration will not be considered in the calculation of a performance shortfall or bonus performance for a Performance Assessment Interval (PAI) when the PRD Curve associated with registration indicates a price point where no demand reduction is expected at the real-time LMP recorded during the PAI. (Section 3A.6.2A)
- Conforming revisions for FERC Order ER20-217-000 issued on December 30, 2019 to update certain rules and requirements for PRD to conform to rules and requirements for Capacity Performance resources.
  - Added prior to 2022/2023 Delivery Year, PRD Provider is subject to performance compliance during Maximum Emergency Events. Added effective with 2022/2023 Delivery Year, PRD Provider is subject to Non-Performance Assessment during the Delivery Year (Sections 3A.1, 3A.3, 3A.6, 3A.6.2, 8.4A, 9.1.9, and 9.4.2)
  - Deleted outdated provisions related to the Transition Period for PRD (Section 3A.2)
  - Added footnote that any PRD Plan submitted and approved for 2022/2023 Delivery Year BRA may be withdrawn or modified no later than 30 days prior to the commencement of the 2022/2023 Delivery Year BRA. (Section 3A.4.1)
  - Added that Zonal Scaling Factors for use in preparation of PRD Plans will be posted by PJM prior to the 2022/2023 Delivery Year. (Section 3A.4.1)
  - Added effective with 2022/203 Delivery Year, the PRD Value for Zone/LDA provided in a PRD Plan is based on a Zonal/LDA Peak Load Contribution (PLC) value minus (the Zonal/LDA Firm Service Level (FSL) quantity times the loss factor). (Section 3A.4.2)
  - Added Expected Peak Load Value of PRD is submitted prior to 2022/2023 Delivery Year and Peak Load Contribution value of PRD is submitted effective with 2022/2023 Delivery Year. (Section 3A.4.2)

Revision 44 (12/05/2019):

- Conforming revisions for FERC Order ER19-2417 issued on September 16, 2019 that (1) enable Capacity Market Sellers to request removal of the Generation Capacity Resource Status and (2) require Capacity Market Sellers seeking an exception to the RPM must offer requirement on the basis that an existing Generation Capacity Resource is physically unable to satisfy the requirements of Capacity Performance (CP) to include a documented plan to become capable of participating in RPM.
  - Updated RPM Auction Timeline to include activities associated with removal of a resource from Capacity Resource status (Section 5.2)
  - Included the requirement to submit a documented plan showing steps that intend to pursue for a resource to become physically capable of satisfying the requirements of a CP Resource, and provide periodic updates on progress of such plan, effective with must-offer exception requests for the 2023/2024 Delivery Year (Section 5.4.1)

- Added new section "Removal of Generation Capacity Resource Status" to document the process to voluntarily request removal of a Capacity Resource from Generation Capacity Resource status (Section 5.4.7)

- Clarification updates to RPM must-offer exception process:
  - Clarified that timing is an acceptable reason for must-offer exception request (Section 5.4.1)
  - Clarified that sellers may specify multiple auctions in a written must-offer exception request (Section 5.4.1)
  - Added that a pending request to PJM for removal of Generation Capacity Resource status is an acceptable reason for early replacement (Section 8.8)

Revision 43 (12/03/2019):

- Conforming revision for FERC Order 841: Electric Storage participation (ER19-462) in Section 7.4 to address Energy Storage Resources not being allocated a Peak Load Contribution.

Revision 42 (07/25/2019):

- Periodic Review updated to address:
  - Corrections/Clarifications of Existing Provisions
    - Clarify Delivery Year applicability of Limited Resource Constraint, Sub-Annual Resource Constraint, Base Capacity Demand Resource Constraint, and Base Capacity Resource Constraint for FRR Alternative in Sections 2.4.3A, 2.4.3B and 5.3
    - Clarify treatment of Qualifying Transmission Upgrade once in service in Section 4.5
    - Clarify Behind the Meter Generation provisions in Sections 4.3.3 and 7.3.1
    - Correct Non-Performance Charge Rate in Sections 8.4A, 9.1.11 and 11.8.8
    - Clarify replacement capacity rules when remaining import capability into an LDA in Section 8.9
    - Add Aggregate Resource to list of capacity resources in Sections 4.1, 5.7.1 and Glossary
    - Clarify charges applicable to Owner in Authorization to Self-Schedule Capacity in Attachment B
  - Deletion of Outdated Provisions
    - Capacity Performance Transition IAs in Sections 1.5, 4.6.2, 4.6.6, 5.1, 5.8 and 5.9
    - Minimum Annual and Extended Summer Requirements in Sections 2.4.3, 2.4.4, 2.4.5, 3.5, 5.3, 5.7.2, 5.8.5, 5.9, 11.1.3, 11.3 and 11.8
    - EE adjustments for 2016/17 – 2018/2019 Delivery Years in Section 2.4.5

- Short-term Resource Procurement Target in Sections 3.3, 3.5, 5.1, 5.4.3, 5.8, 6.1, 7.2.2, 11.1.3 and Glossary
- Demand Response Legacy Direct Load Control Transition Provision in Sections 3.5 and 5.9
- Limited Resource Constraint and Sub-Annual Resource Constraint (when it relates to RPM Auctions) in Sections 3.5, 5.7.2, 5.8.5, and 5.9
- Product types (Limited DR, Extended Summer, and Annual) for RPM Auctions in Sections 4.1, 4.5, 4.6.2, 4.6.7, 4.6.8, 4.8.3, 5.5, 8.2.2, and 8.9
- Out-dated qualification requirements for generation resource prior to 2019/2020 Delivery Year in Section 4.2.3
- Legacy Direct Load Control Programs in Section 4.3.1
- Credit-Limited Offers in Section 4.8.4
- Coupled Sell Offers in Section 5.4
- Peak Season Maintenance Compliance in Sections 8.1, 8.6, 9.1.6, 9.1.8 and 11.8.5
- Load Management Event Compliance in Sections 8.1, 8.7, 9.1.9 and 11.8.6
- Non-Performance Assessment provisions for 2016/2017 – 2017/2018 Delivery Years in Sections 8.4A, 9.1.4 and 9.1.11

◦ Conforming Revisions for FERC Orders

- OVEC Integration (ER18-459, ER18-460) in Section 2.3.1
- Periodic Review of Variable Requirement Curve Shape and Key Parameters (Quadrennial Review) (ER19-105-001,002) in Sections 3.3 and 3.4
- Energy Efficiency Resources Compliance with Authorized Relevant Electric Retail Regulatory Authority (RERRA) Rules to Opt-Out or Restrict Sales of EE Resources (ER18-870) in Sections 3.5, 4.4 and 5.9
- Minimum Offer Price Rule Remand (ER13-535-005, 006) in Sections 5.2 and 5.4.5
- FERC Order 841: Electric Storage Participation (ER19-462) in Section 5.4.1

Revision 41 (01/01/2019):

- Revisions for FERC Order ER19-244, accepted on December 31, 2018 and effective January 1, 2019, to amend Demand Resource registration rules and define a summer period and winter period nominated value for a Capacity Performance registration and to change the methodology used to determine the daily nominated capacity values for Capacity Performance Demand Resources.
- Revisions for FERC Order ER19-142, accepted on December 17, 2018 and effective December 17, 2018, to modify the definition of Winter Peak Load to exclude atypically low usage winter peak days from the calculation of Winter Peak Load.

Revision 40 (02/22/2018):

- Conforming revisions for FERC Order ER17-1138, accepted on November 17, 2017 and effective May 9, 2017 to implement enhancements to the rules for external capacity resources.

Revision 39 (12/22/2017)

- Revisions to Sections 4.3 (4.3.1, 4.3.5, & 4.3.10), 4.6 (4.6.6), 4.9, 4.10, 8.4, 8.4A, 8.7A, 8.8, 8.9, 9.1 (9.1.3, 9.1.4, 9.1.5, & 9.1.11), 11.3, and 11.8 (11.8.8 &11.8.9) to accommodate sub-hourly settlements (FERC Order 825).

Revision 38 (07/27/2017)

- Revisions to Section 8.4A to describe that if energy offer does not comply with Manual 11, Section 2.3.7, then no MWs from generation resource will be exempt or considered for bonus performance during the Performance Assessment Hour.

Revision 37 (4/27/2017)

- Conforming revisions for FERC Order ER17-367 issued on March 21, 2017, to enhance aggregation rules, implement Seasonal Capacity Performance Resources, provide opportunity for Intermittent and Environmentally Limited Resources to request additional Capacity Interconnection Rights in winter, and modify measurement and verification rules for Demand Resources.

Revision 36 (12/22/2016)

- Revisions to include restrictions on early replacement of RPM capacity commitments as endorsed by MRC on 12/22/2016 (Section 8.9)

Revision 35 (11/17/2016)

- Revisions to remove the restrictions on early replacement of RPM capacity commitments as endorsed by MRC on 11/17/2016 (Section 8.9).

Revision 34 (07/28/2016)

- Revisions to clarifying the details of Auction Specific MW bilateral transactions (Section 4.6.6)

Revision 33 (06/30/2016)

- Revisions needed as a result of a Cover to Cover Periodic Review
- Revisions needed to clarify the implementation details of Capacity Performance

Revision 32 (04/01/2016)

- Conforming revisions for FERC Order ER16-873-000, accepted on 4/1/2016 and effective 4/1/2016 to eliminate the RRMSE requirement for Load Management registrations that will use a customer baseline to measure capacity compliance in non-summer periods.

Revision 31 (02/25/2016)

- Conforming revisions for FERC Order ER16-333, accepted on 12/22/2015 and effective 01/16/2016 to change (1) instances in which FRR Entities would not be required to meet the Percentage of Internal Resource Requirement, (2) circumstances in which an FRR Entity can terminate its five-year minimum commitment period, and (3) the FRR Alternative election dates for new FRR Entities (Sections 11.1.3 & 11.6).

Revision 30 (12/17/2015)

- Revisions to accommodate EE Resource participation in the PJM capacity market when the peak load forecast reflects energy efficiency measures (sections 2.4.5, 4.4, 8.7 & 11.2.1).

Revision 29 (10/16/2015)

- Revisions to Section 8.7, endorsed at the July 23, 2015 MRC meeting, to add provisions for replacement capacity transactions earlier than November 30th prior to start of Delivery Year when the owner of the replaced resource provides transparent and verifiable evidence to support the expected final physical position of resource at the time of the request.

Revision 28 (08/03/2015)

- Conforming revisions for FERC Order ER15-623 (i.e., Capacity Performance filing), accepted on 06/09/2015 and effective April 1, 2015 to better ensure that committed resources will perform when called upon to meet the reliability needs of the PJM Region.
- Conforming revisions for FERC Order ER15-1849, accepted on 7/23/15 and effective 8/3/15, to improve measurement and verification procedures for CSPs with Residential Demand Response Customers. Direct Load Control is re-defined as Legacy Direct Load Control and is only effective through May 31, 2016. Statistical sampling may be used instead of customer-specific compliance and verification information for residential customers without interval metering.

Revision 27 (01/22/2015)

- Conforming revisions for FERC Order ER14-2940, accepted on 11/28/2014 and effective 12/01/2014, to revise the shape of Variable Resource Requirement Curve, the gross Cost of New Entry values, and the methodology to determine Net Energy and Ancillary Services Revenue Offset and Net Cost of New Entry. (Sections 3.3.1, 3.3.2, 3.3.3, 3.4, & 3.4.1)

Revision 26 (01/01/2015)

- Conforming revisions for FERC Order ER15-134-000, accepted on 12/01/2014 and effective 01/01/2015, to allow Electric Distribution Companies to correct the Obligation Peak Load data up to 12 noon on the next business day after the Operating Day.

Revision 25 (10/30/2014)

- Conforming revisions for FERC Order ER11-2288-000, accepted on 01/31/2011 and effective 02/1/2011, to clarify the Annual DR Maintenance Outage process.

Revision 24 (07/31/2014)

- Revision to allow Auction Specific MW Transactions for a Delivery Year to be submitted following the completion of the RPM auction to which the transaction applies (Section 4.6.6).

Revision 23 (06/01/2014)

- Conforming revisions for FERC Order ER14-822, accepted on 05/09/2014, and effective on 06/01/2014 for various DR operational changes including: (i) requiring all Demand Resources participating in PJM's capacity market to serve as Pre-Emergency Load Response, unless the resource utilizes behind-the-meter generation that is subject to an environmental restriction; (ii) requiring, on a phased-in basis, that all Demand Resources reduce load reductions within 30 minutes of notification from PJM to the CSP, unless PJM has granted an exemption for a Demand Resource; (iii) limiting the duration of the required minimum load response reduction period from two hours to one hour; (iv) modifying measurement and verification for capacity compliance for all hours where PJM has dispatched the resource for at least 30 minutes of the wall clock hour; (v) modifying measurement and verification to allow aggregation of compliance results by compliance aggregation areas and provide further clarification on definition of "Load Management Event'; and (vi) CSP expected load reductions must be reported at more granular basis to include these changes. (Sections 4.3.1, 4.3.2, 4.3.4, 4.3.5, 4.3.6, 4.3.7, 4.3.9, 8.5, 8.5.1, and 8.5.2)
- Revision to include the ability to request an adjustment to the Nominated DR Value (in MWs) associated with an end-use customer site and used in the determination of a CSP's Existing MWs if certain criteria are satisfied. (Section 4.3.3)

Revision 22 (04/24/2014)

- Conforming revisions for FERC Order ER14-504, accepted on 01/30/2014, and effective on 01/21/2014 to retire the Minimum Annual Resource Requirements and Minimum Extended Summer Resource Requirements and implement Limited Resource Constraints and Sub-Annual Resource Constraints effective with the 2017/2018 Delivery Year. (Sections 2.4.3, 2.4.3A, 2.4.4, 3.5, 5.3, 5.6.2, 5.7.5, 5.8.1, 11.1.3, 11.3, 11.4.1, & 11.9.1)
- Confirming revisions for FERC Order ER14-503 to employ Capacity Import Limits for RPM Auctions effective with the 2017/2018 Delivery Year. (Sections 2.1.2, 2.2, 2.3, 2.3.4, & 5.8.1)
- Conforming revisions for hydro and pumped storage units to perform rating tests during summer verification window in accordance with PJM Manual 21, Rules and Procedures for Determination of Generating Capability, Revision 11, effective 03/05/2014. (Section 8.4.6)

- Clarifications to deficiency/penalty charge rates when committed capacity resources did not clear in any RPM Auctions (Sections 9.1.1, 9.1.3, 9.1.5, 9.1.6, 9.1.7, & 9.1.9)
- Revisions to permit the maximum credit requirement specified in a credit-limited sell offer to exceed the RPM Credit Limit of a resource when the RPM Credit Adjustment Factor of the resource is less than one (Section 4.8.4).

Revision 21 (01/30/2014)

- Revisions to include demand resource product substitution rules for a load management event (Section 8.5).

Revision 20 (11/21/2013)

- Conforming revisions for FERC Order ER12-513, accepted on 01/31/2013 and effective 01/31/2013, to update Gross CONE values for CONE areas, region-wide Gross CONE value, and Benchmark CONE values. (Section 3.3.1)
- Conforming revisions for FERC Order ER12-513, accepted on 01/30/2012 and effective 01/31/2012, to revise definition of peak-hour dispatch to provide for day-ahead energy market revenues to be considered in the determination of Energy & Ancillary Services revenues. (Section 3.3.2)
- Conforming revisions for FERC Order ER13-535, accepted on 05/02/2013 and effective 02/05/2013, to revise the Minimum Offer Price Rule. (Section 5.2 and 5.3.5)
- Conforming revisions for FERC Order ER13-2140, accepted on 10/10/2013 and effective 10/15/2013, to change the deadline for submission of must-offer exemption requests for resources that are expected to be deactivated prior to or during the relevant Delivery Year. (Section 5.2)
- Conforming revisions for FERC Order ER13-1023, accepted on 04/30/2013 and effective 05/01/2013, to correct the NEPA qualification calculation and allow NEPA contingent sell offers in Base Residual Auction. (Section 5.3.3)
- Revision to correct LSE's options to hedge Locational Reliability charges by offering and clearing resources in Base Residual Auction and Incremental Auctions. (Section 1.2.1)
- Removal of obsolete reference to information on Transition Period. (Section 1.4)
- Revisions to correct number of LDAs and RECO's relationship to parent LDA. (Section 2.3.1)
- Revisions to correct terminology from "Capacity Injection Rights" to "Capacity Interconnection Rights, the defined term in OATT. (Section 4.2.6)
- Revisions to correct indemnification provision for Unit-specific transactions for Cleared MWs to conform with current tariff language. (Section 4.6.2)
- Revisions to correct business rules regarding start and end dates of Auction Specific MW transactions to conform with current tariff language. (Section 4.6.6)
- Removal of obsolete ILR references (Sections 4.6, 7.1, 8.5, & Attachment A).

- Revisions to clarify bill timing for Peak Hour Period Availability Charges/Credits, Generation Resource Rating Test Failure Charges/Credits, and PSM Compliance Charges/Credits (Sections 9.1.2, 9.1.5, and 9.1.6)
- Revisions to clarify that factor for On-Peak Load Management Compliance Penalty Rate is based on number of on-peak events.(Section 9.1.9)

Revision 19 (06/01/2013)

- Revisions for EKPC integration (Section 2.3.1)
- Revisions for Load Reduction Reporting for Emergency Demand Response capacity resources (Section 4.3.9)

Revision 18 (3/18/2013)

- Proposed revisions for Demand Resource Sell Offer Plan Enhancements (Sections 4.3.1, 4.3.3, 4.3.6, and 11.4.7, Attachments C and D)

Revision17 (12/20/2012)

- Conforming revisions in Docket ER13-305-000 to add a Cleveland LDA (Section 2.3.1)
- Conforming revisions in Docket ER13-149-000 to incorporate task oriented deadlines to ensure timely submission of offer data, exception requests and unit-specific requests by market participants as well as timely responses thereto by PJM and the IMM
- Removal of language restricting replacement transactions on EE Resources with non-EE Resources (Section 8.7)
- Removal of ILR related content
- Removal of Transition Period (2007/08 – 2010/11 Delivery Year) related content
- Removal of pre-2012/13 Delivery Year-specific content
- Glossary updates

Revision 16 (09/27/2012)

- Conforming revisions for FERC Order ER11-4628 accepted on 12/14/2011 and effective 05/15/2012 to integrate Price Responsive Demand (PRD) in PJM Capacity Market.

Revision 15 (06/28/2012)

- Conforming revisions for FERC Order ER12-1372 accepted on 05/31/2012 and effective 06/01/2012, to clarify load management event and test compliance requirements related to sub-zonal and product-specific dispatch (Sections 4.3.1, 8.5, 8.5.2, 8.6, 9.1.7, and 9.1.9).
- Conforming revisions for FERC Order ER11-3322 conditionally accepted on 02/24/2012 and effective June 1, 2012, to implement a Demand Response Transition Provision (DR Capacity Transition Credit and Alternate DR Transition Credit) for the 2012/2013 through 2014/2015 Delivery Years (Sections 8.8 and 9.4).

- Conforming revisions for FERC Order ER12-513, accepted on 01/30/2012 and effective 01/31/2012, to revise point (a) on the VRR Curve (Section 3.4) and clarify New Entry Pricing provision (Section 5.3.3).
- Conforming revisions for FERC Order ER12-636, accepted on 02/16/2012, and effective 02/18/2012, to make corrections, clarifications identified as a result of the Quality Project Initiative including revisions for CTRs and ICTRs (Sections 5.8.3, 5.8.4, 6.1.1, 6.1.2, 6.1.3, 6.2, 6.3, 6.4, and 9.3.4) and removal of obsolete provisions for Single Customer LSE electing the FRR Alternative and the Unauthorized Load Transfer Charge (Section 11.2.3).
- Revisions to correct bill timing from monthly to weekly for Capacity Resource Deficiency Charges (Section 9.1.3), Locational Reliability Charges (Section 9.2.1), Auction Charges/ Credits (Sections 9.3.1 and 9.3.2), CTR and ICTR Credits (Section 9.3.4), Auction Specific MW Transaction Credits (Section 9.3.5), and ILR Credits (Section 9.3.6).

Revision 14 (02/23/2012)

- Conforming Revisions for FERC Order ER11-2287, accepted on 01/31/2011, and effective 01/31/2011 to revise the definition of an Existing Generation Resource for the purposes of must-offer and mitigation provisions (Section 1.2, 5.6.1, 5.7.1).
- Conforming Revisions needed to include updates to Installed Reserve Margin, Pool-wide average EFORd, Forecast Pool Requirement, CETO, and CETLs prior to Incremental Auctions and conform to Attachment DD of Open Access Transmission Tariff. (Sections 2.1.1, 2.1.3, 2.1.4, and 2.3)
- Conforming Revisions for FERC Order ER11-2287, accepted on 01/31/2011 and effective 02/01/2011 to establish three product alternatives (limited, extended summer, and annual) for demand resources seeking to participate in PJM's capacity market. (Sections 2.4.3, 4.3, 4.3.1, 4.3.2, 4.3.7, 5.3, 5.3.1, 5.4, 5.6.2, 5.7.5, 5.8.1, 8.2.2, 8.5, 8.5.1, 8.5.2, 8.6, 8.7, 9.1.7, 9.1.9, 11.1.3, 11.3, 11.9.1)
- Conforming Revisions for FERC Order ER11-3365, accepted on 6/6/2011 and effective 06/ 17/2011, to refine the calculations of the amount of capacity commitments that PJM seeks to procure or release in Incremental Auctions and the amount of Excess Committed Credits commencing with the 2012/2013 Delivery Year (Sections 3.5 and 8.7.2)
- Conforming Revisions for FERC Order ER05-1410-015, et al., accepted on 05/20/2010 to implement the use of an Updated VRR Curve Increment/Decrement in developing PJM Buy Bids/Sell Offers in Incremental Auctions (Section 3.5).
- Conforming Revisions for FERC Order ER12-125 accepted on 12/02/2011 and effective 12/19/2011 to clarify that PJM Emergency Load Response Registrations must be submitted to PJM no later than one day before the tenth business day preceding the relevant Delivery year, and must be approved on or before May 31st preceding the relevant Delivery Year (Section 4.3.7)
- Conforming Revisions for FERC Order ER10-1003, accepted on 05/05/2010, and effective 06/01/2010 to revise PJM's credit risk management rules for certain bilateral transactions

(unit-specific transactions for cleared capacity, Auction Specific MW transactions, and Locational UCAP transactions) (Sections 4.6.2, 4.6.6, and 4.6.7).

- Conforming Revisions needed to clarify the Auction Credit Rate and conform to Attachment Q of Open Access Transmission Tariff. (Section 4.8.3)
- Conforming Revisions for FERC Order ER11-2913, accepted on 4/13/2011and effective 04/20/2011, to allow Credit-Limited Offers in RPM Auctions for planned resources (whether generation, demand resources, or energy efficiency) (Section 4.8.4).
- Conforming Revisions for FERC Order ER11-4143, accepted on 09/12/2011 and effective 06/01/2007, to correct time periods for critical peak periods for the assessment of Peak Hour Period Availability from eastern prevailing time (EPT) to local prevailing time (LPT) (Section 8.4).
- Conforming Revisions for FERC Order ER09-412, accepted on 03/26/2009, and effective 06/01/2009 to allow excess available capacity that satisfies all capacity resource obligations of a committed resource to serve as replacement capacity to offset potential peak hour period availability penalties. (Sections 8.4.5 and 8.4.5.1)
- Conforming Revisions for FERC Order ER10-2917, accepted on 10/29/2010, and effective 11/23/2010 to further clarify that PJM considers committed capacity first in determining net peak hour period capacity shortfalls in an LDA and then considers uncommitted, available capacity to adjust the net peak hour period capacity shortfall in an LDA only to extent necessary to mitigate or eliminate any availability shortfalls for committed capacity (Sections 8.4.5 and 8.4.5.1).
- Conforming Revisions for FERC Order ER12-271, accepted on 12/27/2011 and effective 12/30/2011, to modify the bill timing of the Demand Resource and ILR Compliance Penalty Charge such that charges are assessed and billed in two phases. (Section 9.1.9)
- Conforming Revisions needed to clarify Fixed Resource Requirement Alternative business rules in Section 11.3 and conform to Schedule 8.1 of the Reliability Assurance Agreement.
- Conforming Revisions for FERC Order ER11-2875 regarding MOPR (Section 5.3.5)

Revision 13 (11/17/2011)

- Revisions for DEOK integration (Sections 2.3.1, 2.3.4, 3.3.1, and Attachment B)

Revision 12 (05/25/2011)

- Confirming Revisions for FERC Order ER11-2898, accepted on 04/04/2011 and effective 04/18/2011, to include changes for:
  - Requirement to provide meter data on a 24-hour basis during the day on which a Load Management event or performance test occurs and for all hours during any other days as required by PJM to calculate load reduction
  - Avoiding double assessment of a penalty (penalty for both RPM Commitment Compliance and Load Management Event or Test Compliance) for a Demand Resource

  - Modification to the load management retest rules
  - Modification and clarification of the rules for use of Demand Resources as replacement capacity
- Confirming Revisions for FERC Order ER11-1909, accepted on 12/20/2010 and effective on 12/27/2010, to include a change to clarify the definition of an EE Resource to reflect that a project qualifying as an EE Resource is one installed at an end-use customer's retail site.
- Revisions to EFORd used for a generation resource in the initial evaluation of a FRR Entity's FRR Capacity Plan for a Delivery Year as approved by stakeholders at the MRC on August 5, 2010.

Revision 11 (04/28/2011)

- Revisions for ATSI integration (Sections 2.3.1, 2.3.4, 3.3.1, and Attachment B)

Revision 10 (06/01/2010)

- Revisions made to rules for Non Unit-specific Capacity Transactions to clarify that PJM will be the counterparty to all transactions, unless market participants expressly and mutually contract between themselves (or self schedule to themselves). Revisions have been approved at the Markets and Reliability Committee on April 21, 2010 and by FERC (Order ER10-1003 issued on May 5, 2010)
- (Reference: FERC Order ER10-1003)

Revision 9 (03/01/2010)

- Clarifying Revisions
- Conforming Revisions for FERC Order ER10-15, accepted on 11/13/09 and effective 12/ 01/09, to include changes to Credit Rate Change
- Conforming Revisions for FERC Order ER09-1679 accepted on October 29, 2009 and effective November 1, 2009 to include changes for:
- New Entry Pricing Adjustment
- Removal of Existing EE and DR offer caps
- Allocation of LM Test Failure Charges
- Planned DR Deadline - change to 15 business days
- Excess Commitment Credit for LSEs if cannot sell excess in IA
- Reduction in FRR Obligation when Load Forecast is reduced
- Conforming Revisions for FERC Order ER05-1410 accepted on October 30, 2009 and effective 11/1/09 to include changes to Incremental Auctions design
- Conforming Revisions for FERC Order ER09-412 accepted on November 5, 2009 and effective November 13, 2009, to include changes to the trigger for a Conditional IA only for delay of Backbone Transmission Upgrade

- Conforming Revisions for ER09-1679 to include changes to Revisions for the automated adjustment to Net CONE
- Conforming Revisions for FERC Order ER10-366 accepted on January 22, 2010 and effective January 31, 2010, to include changes
- evaluate the method for creation of additional CONE regions
- Revisions to allow Energy Efficiency Resources to participate in Earlier Deliver Years
- RPM Incremental Auction Times

Revision 8 (01/01/10)

- Revisions approved by stakeholders at MRC on November 11, 2009
- One CSP Rule (Section 4, p 33)
- Permanent Load Departure (Section 8, p 98)
- Tracking Existing DR (Section 4, pp 30-31)
- Revisions approved by stakeholders at MRC on November 30, 2009 (awaiting FERC approval by February 1, 2010)
- Winter Capacity Test Exemption (Sections 4 & 8, pp 24, 27, 104-105)

Revision 7 (08/18/2009)

- Revision to Section 4 to modify business rules to state that RPM suppliers must confirm the modeling of each of their capacity resources (Zone, LDA, Unit Type, State Location) prior to any RPM auction.
- Revision to Section 5 to modify business rules to state that RPM Auction Results will not be posted until 4pm or later on Friday of Auction Clearing week.

Revision 06 (06/18/2009)

- Revisions to include business rules for Cleared Buy Bid and Locational UCAP transactions.
- Revisions required as a result of the March 26, 2009 FERC Order regarding Reliability Pricing Model

Revision 05 (10/03/2008)

- Revisions regarding Transmission Service for External Resources offering into RPM.

Revision 04 (06/08/2008)

- Incorporate Rules for Capacity Export Charge per FERC Order ER07-1050 (Effective May 30, 2008)

Revision 03 (04/01/2008)

- Established a Min and Max capacity value for Wind Resources offering into an RPM Auction.

Revision 02 (02/21/2008)

- Correct an error in the original posting of this Manual. Remove the word "not" in the End-Use Customer Aggregation section of Section 4 to reflect the fact that aggregation of Interruptible for Load (ILR) Resources is allowed.

Revision 01 (02/03/2008)

- Revisions made for the following changes:
  - Current, Minimum, Maximum Available Capacity Position Definitions.
  - Change Final Zonal RPM Scaling Factors posting date from October 31st to January 5th.
  - Allow for Combined Demand Resources and ILR Resources at the same location.

Revision 00 (06/01/07)

- Manual Created for the Implementation of the Reliability Pricing Model, and the Fixed Resource Requirement Alternative.

JB-2

ATTACHMENT M-2 (PECO)

Determination of Capacity Peak Load Contributions, Network Service Peak Load and Hourly Load Obligations

PURPOSE

This document outlines the process by which PECO determines Capacity Peak Load Contributions, or "PLCs", Network Service Peak Loads, or "NSPLs", and Final Hourly Load Obligations for customers and subsequently Load Serving Entities ("LSEs") serving load within the PECO Electric Distribution Company ("EDC") Zone (the "PECO Zone"), a zone located entirely within the PJM Regional Transmission Organization (RTO) footprint.

Attachment M-2 does not amend or replace any existing contracts or agreements between PECO and any LSE.

Capitalized terms used in the Attachment M-2 have the meaning given them under the provisions of the PJM Open Access Transmission Tariff unless otherwise defined herein.

CAPACITY (PLC) AND TRANSMISSION (NSPL)

OVERVIEW

On an annual basis, PECO stratifies each of its customers based on the customer's rate class and an analysis of usage and demand over the prior year. At the same time, PECO calculates seasonal scale factors that relate customer's actual historical energy usage to projected usage for that year based on the load profile as well as on actual weather data.

Once complete, PECO then calculates PLCs and NSPLs for service locations within the PECO Zone. PECO then scales these preliminary values up or down such that:

- **PLCs** – The sum of all individual customer PLCs equals the normalized peak load target allocated to the PECO zone as determined by PJM.

- **NSPLs** – The sum of all individual customer NSPLs equals PECO's metered zonal load at the time of the zone's highest transmission peak value (as determined by PJM).

PECO then aggregates the resulting PLC and NSPL values by LSE and transmits to PJM. PECO subsequently provides PJM with updated aggregations on a daily basis.

NSPLs are scaled internally to meet the PECO Zone target.

ANNUAL CALCULATION OF CAPACITY PEAK LOAD CONTRIBUTIONS (PLCS)

PECO calculates individual preliminary PLCs based on normal peak load conditions and adjusts all values to include transmission and distribution losses. The PLCs calculated are effective from June 1st of the following calendar year through May 31st of the subsequent calendar year, in alignment with PJM planning periods.

For the purposes of these procedures, PECO considers the first day of summer to be June 1st and the final day to be September 30th.

A. FOR WHOLESALE INTERVAL-SETTLED LOCATIONS:

1. PECO gathers the actual hourly meter readings at hour-ending normal PJM peak time ET for each of the five days coincident with the highest PJM system peak hours, as determined by PJM. These loads include an "add-back" of energy curtailed as a result of load management initiatives or restrictions as identified by PJM.

2. PECO calculates a weather-normalized peak load for each of these five hours, taking into account the actual reading, actual versus normal peak weather, customer rate class, and losses.

3. To calculate the preliminary PLC, PECO averages the five resulting load values.

B. FOR WHOLESALE MONTHLY-SETLLED LOCATIONS WITH DEMAND METERS:

1. Using industry-standard load profiling techniques, PECO creates a load profile for each of the five days coincident with the highest PJM system peak days, as determined by PJM.

2. PECO calculates an average peak weather correction factor based on the ratio of the profiled peak load versus the expected profile peak at normal peak weather and time conditions for each of the five PJM coincident peak days.

3. PECO determines the actual average non-coincident on-peak summer demand for the premise.

4. To calculate the preliminary PLC, PECO applies the average weather correction factor and losses to the average non-coincident on-peak summer demand.

C. FOR RESIDENTIAL CUSTOMERS WITHOUT DEMAND METERS, PECO calculates the weather-normalized load with losses at hour-ending normal peak time based on the summer weekday load profile and summer scale factor mentioned in Part 1 for the associated customer profile and rate class. This becomes the preliminary PLC.

D. FOR UNMETERED LOCATIONS IDENTIFIED VIA CUSTOMER RATE CLASS AS CONSTANT LOAD (such as traffic lighting):

1. PECO calculates hourly load for each of the four summer months based on the billed usage and billed number of hours for each month.

2. To calculate the preliminary PLC, PECO averages the resulting hourly and applies losses to the resulting average.

E. FOR UNMETERED LOCATIONS IDENTIFIED AS LIGHTING (excluding constant load lighting), PECO sets all PLC values to zero.

F. NEW LOCATIONS WHERE INDIVIDUAL DATA IS NOT YET AVAILABLE are assigned a PLC based on the average default value calculated for the associated customer's rate class and load profile.

ANNUAL CALCULATION OF NETWORK SERVICE PEAK LOAD

PECO uses the PLC calculations above as a direct input to NSPL calculations. The NSPLs calculated will be effective from January 1st through December 31st of the following year.

Because the sum of all NSPLs are equal to the actual metered zonal load, PECO first adjusts the PLCs calculated above for all interval-settled locations so as to exclude energy curtailed as a result of load management initiatives or restrictions based on "add-back" information provided by PJM. (All other PLCs remain as calculated per above.). These values are the initial NSPLs.

Once these adjustments are complete, PECO applies a scaling factor to all adjusted and initial NSPL values based on the zonal transmission target determined by PJM, which represents PECO's metered zonal load at the time of the PECO zone's highest transmission peak value. The result is the individual NSPLs for each specific location which, when totaled, will sum to PECO's annual zonal target.

DAILY UPDATES TO PLC AND NSPL

Because the LSE responsible for a customer's Capacity Peak Load Contribution and Network Service Peak Load is subject to change at points throughout the effective period, PECO aggregates PLC and NSPL values by LSEs serving load within the zone on a daily basis and transmits those updates to PJM in accordance with PJM procedural requirements and capacity market schedules. NSPLs are scaled to the PECO zone NSPL target before sending to PJM.

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DETERMINATION OF HOURLY LOAD OBLIGATIONS

OVERVIEW

PECO settles hourly load obligations with each LSE and PJM via a two-step process.

Settlement A – PECO determines the estimated "day after" (delivery day) hourly load responsibility by recreating the load characteristics of the delivery day in question using a combination of available known, preliminary, and historically-based information. PECO then submits the load responsibility for all LSEs serving load on the settled day(s) to PJM in accordance with PJM procedural requirements and energy market schedules.

Settlement B – PECO determines the final hourly load responsibility approximately 60 days after an energy delivery month by reconciling actual individual customer meter readings and applicable load profile data with the Settlement A data for that month. PECO then calculates and submits the energy variances from Settlement A hourly scheduling for all LSEs to PJM in accordance with PJM procedural requirements and energy market schedules.

All hourly load obligations are adjusted for transmission and distribution losses.

SETTLEMENT A (ESTIMATED "DAY AFTER" HOURLY LOAD OBLIGATIONS)

FOR INTERVAL WHOLESALE-SETTLED CUSTOMERS:

1. A retail LSE (Electric Generation Supplier) either calculates and provides the estimated "day after" hourly load responsibility directly to PECO OR otherwise accepts the day-after load responsibility (including losses) estimated by PECO.

2. PECO calculates the estimated load responsibility for each individual customer based on prior energy delivery days of similar day-type and similar weather.

FOR ALL OTHER CUSTOMERS:

1. PECO aggregates customers by LSE and assigned load profiles respectively.

2. PECO calculates the estimated hourly load responsibility based on the customer's assigned load profile and the scaling factor initially mentioned in Part I, Section 1 above.

    a. PECO assigns new customers the default scale factors for their rate class and assigned load profile.

b. The load profiles used by PECO for this purpose are split into various seasons and day-types.

3. PECO adjusts all calculations for losses and then aggregates the resulting estimated hourly load obligations by LSE and assigned load profile respectively.

Following the above, for all customers, PECO allocates any existing Unaccounted-For Energy to all customers by load share ratio of monthly settled load and adds this to the estimated hourly load responsibilities.

Finally, PECO aggregates the hourly energy obligations by LSE and subsequently by PJM Contract Number and reports the resulting energy schedules to PJM.

SETTLEMENT B ("60 DAY SETTLEMENT—FINAL" HOURLY LOAD OBLIGATIONS)

For interval-settled customers, PECO uses the customer's actual interval data to determine the associated hourly load obligations, and then adjusts for losses.

For monthly-settled customers, PECO converts the monthly aggregate consumption into hourly consumption values for the related billing periods. PECO accomplishes this by generating an hourly load shape for the periods based directly on the customer's assigned load shape and weather, then scaling that load shape to tie to the customer's actual usage, calculating the associated hourly load obligation values, and adjusting those values for losses.

For all customers, PECO then calculates a "bottom-up" load shape for the energy delivery month being reconciled and compares that shape with a load shape comprised of actual metered PECO zone load. PECO considers any resulting variance as being Unaccounted-For Energy for that hour and allocates it to hourly load obligations as appropriate.

PECO then calculates the difference between the "day after" estimated load obligations previously determined in Settlement A and the final hourly load obligations for Settlement B, aggregating the resulting variances by LSE and subsequently by PJM Contract Number. PECO then reports the resulting energy variances to PJM. PJM incorporates the variances as adjustments within its market settlement processes with LSEs.

If adjustments are made to the Hourly Load of a LSE in the PECO Zone after this load reconciliation, PECO may calculate the financial value of the adjustment and report that value to PJM. PECO will also allocate the equal and opposite financial value to all LSEs in the PECO Zone, on a load-ratio share basis, and report the adjustments to PJM. PJM will include any adjustments in the next monthly billing statement issued by PJM to the affected LSE(s).

JB-3

RATE-HT HIGH TENSION POWER

AVAILABILITY.
Untransformed service from the Company's standard high tension lines, where the customer installs, owns, and maintains, any transforming, switching and other receiving equipment required.

CURRENT CHARACTERISTICS.
Standard high tension service.

MONTHLY RATE TABLE.
FIXED DISTRIBUTION SERVICE CHARGE: $371.68

VARIABLE DISTRIBUTION SERVICE CHARGE:
$7.12 per kW of billing demand
($0.0006) per kWh for all kWh

HIGH VOLTAGE DISTRIBUTION DISCOUNT:
For customers supplied at 33,000 volts: $0.24 per kW of measured demand.
For customers supplied at 69,000 volts: $1.94 per kW of measured demand.
For customers supplied over 69,000 volts: $1.94 per kW of measured demand.

ENERGY EFFICIENCY CHARGE: $1.18 per kW of Peak Load Contribution (I)

ENERGY SUPPLY CHARGE: Refer to the Generation Supply Adjustment Procurement Classes 2 and 3/4.

TRANSMISSION SERVICE FOR CUSTOMERS RECEIVING DEFAULT SERVICE: The Transmission Service Charge shall apply.

STATE TAX ADJUSTMENT CLAUSE, DISTRIBUTION SYSTEM IMPROVEMENT CHARGE (DSIC), PROVISION FOR THE RECOVERY OF CONSUMER EDUCATION PLAN COSTS, NON-BYPASSABLE TRANSMISSION CHARGE, PROVISION FOR THE RECOVERY OF ENERGY EFFICIENCY, FIBER AFFILIATE REVENUE SURCHARGE, INCREMENTAL COVID-19 RELATED UNCOLLECTIBLE SURCHARGE AND CONSERVATION PROGRAM AND NUCLEAR DECOMMISSIONING COST ADJUSTMENT APPLY TO THIS RATE.

DETERMINATION OF BILLING DEMAND.
The billing demand will be computed to the nearest kilowatt and will never be less than the measured demand, adjusted for power factor in accordance with the Rules and Regulations, nor less than 25 kilowatts. Additionally, the billing demand will not be less than 40% of the maximum demand specified in the contract. The 25 kW minimum shall apply to the Energy Supply Charge and the Transmission Supply Charge.

CONJUNCTIVE BILLING OF MULTIPLE DELIVERY POINTS.
If the load of a customer located at a delivery point becomes greater than the capacity of the standard circuit or circuits established by the Company to supply the customer at that delivery point, upon the written request of the customer, the Company will establish a new delivery point and bill the customer as if it were delivering and metering the two services at a single point, as long as installation of the new service is, in the Company's opinion, less costly for the Company than upgrading the service to the first delivery point and provided that such multi-point delivery is not disadvantageous to the Company.

MINIMUM CHARGE.
The monthly minimum charge shall be the Fixed Distribution Service Charge, plus the charge per kW component of the Variable Distribution Service Charge, and modify less the high voltage discount where applicable plus in the case of Procurement Class 3/4 customers, charges assessed on PJM's reliability pricing model.

TERM OF CONTRACT.
The initial contract term shall be for at least three years.

PAYMENT TERMS.
Standard.

(I) Denotes Increase

JB-4

RATE RS-2 NET METERING

PURPOSE.

This Rate sets forth the eligibility, terms and conditions applicable to Customers with installed qualifying renewable customer-owned generation using a net metering system.

APPLICABILITY.

This Rate applies to renewable customer-generators served under Rates R, RH, CAP, GS, HT, PD and EP who install a device or devices which are, in the Company's judgment, subject to Commission review, a bona fide technology for use in generating electricity from qualifying Tier I or Tier II alternative energy sources pursuant to Alternative Energy Portfolio Standards Act No. 2004-213 (Act 213) or Commission regulations and which will be operated in parallel with the Company's system. A renewable customer-generator is a non-utility owner or operator of a net metered generation system with a nameplate capacity of not greater than 50 kilowatts if installed at a residential service (Rate R, RH, or CAP) or not larger than 3,000 kilowatts at other customer service locations (Rate GS, HT, PD and EP), except for Customers whose systems are above 3 megawatts and up to 5 megawatts who make their systems available to operate in parallel with the Company during grid emergencies as defined by the regional transmission organization or where a microgrid is in place for the purpose of maintaining critical infrastructure such as homeland security assignments, emergency services facilities, hospitals, traffic signals, wastewater treatment plants or telecommunications facilites provided that technical rules for operating generators interconnected with facilities of the Company have been promulgated by the Institute of Electrical and Electronic Engineers "IEEE" and the Commission. (C)

Qualifying renewable energy installations are limited to Tier I and Tier II alternative energy sources as defined by Act 213 and Commission Regulations. The Customer's equipment must conform to the Commission's Interconnection Standards and Regulations pursuant to Act 213. This Rate is not applicable when the source of supply is service purchased from a neighboring electric utility under Borderline Service.

Service under this Rate is available upon request to renewable customer-generators on a first come, first served basis so long as the total rated generating capacity installed by renewable customer-generator facilities does not adversely impact service to other Customers and does not compromise the protection scheme(s) employed on the Company's electric distribution system.

METERING PROVISIONS.

A Customer may select one of the following metering options in conjunction with service under applicable Rate Schedule R, RH, CAP, GS, HT, PD or EP.

1. A customer-generator facility used for net metering shall be equipped with a single bi-directional meter that can measure and record the flow of electricity in both directions at the same rate. A dual meter arrangement may be substituted for a single bi-directional meter at the Company's expense.

2. If the customer-generator's existing electric metering equipment does not meet the requirements under option (1) above, the Company shall install new metering equipment for the customer-generator at the Company's expense. Any subsequent metering equipment change necessitated by the customer-generator shall be paid for by the customer-generator. The customer-generator has the option of utilizing a qualified meter service provider to install metering equipment for the measurement of generation at the customer-generator's expense.

   Additional metering equipment for the purpose of qualifying alternative energy credits owned by the customer-generator shall be paid for by the customer-generator. The Company shall take title to the alternative energy credits produced by a customer-generator where the customer-generator has expressly rejected title to the credits. In the event that the Company takes title to the alternative energy credits, the Company will pay for and install the necessary metering equipment to qualify the alternative energy credits. The Company shall, prior to taking title to any alternative energy credits, fully inform the customer-generator of the potential value of those credits and options available to the customer-generator for their disposition.

3. Meter aggregation on properties owned or leased and operated by a customer-generator shall be allowed for purposes of net metering. Meter aggregation shall be limited to meters located on properties within two (2) miles of the boundaries of the customer-generator's property. Meter aggregation shall only be available for properties located within the Company's service territory. Physical meter aggregation shall be at the customer-generator's expense. The Company shall provide the necessary equipment to complete physical aggregation. If the customer-generator requests virtual meter aggregation, it shall be provided by the Company at the customer-generator's expense. The customer-generator shall be responsible only for any incremental expense entailed in processing his account on a virtual meter aggregation basis.

(C) Denotes Change

RATE RS-2 NET METERING (continued)

BILLING PROVISIONS.

The following billing provisions apply to customer-generators in conjunction with service under applicable Rates R, RH, CAP, GS, HT, PD, EP.

1. The customer-generator will receive a credit for each kilowatt-hour received by the Company up to the total amount of electricity delivered to the Customer during the billing period at the full retail rate consistent with Commission regulations. If a customer-generator supplies more electricity to the Company than the Company delivers to the customer-generator in a given billing period, the excess kilowatt hours shall be carried forward and credited against the customer-generator's usage in subsequent billing periods at the full retail rate. Any excess kilowatt hours will continue to accumulate until the end of the PJM planning period ending May 31 of each year. On an annual basis, the Company will compensate the customer-generator for kilowatt-hours received from the customer-generator in excess of the kilowatt hours delivered by Company to the customer-generator during the preceding year at the "full retail value for all energy produced" consistent with Commission regulations. The customer-generator is responsible for the customer charge, demand charge and other applicable charges under the applicable Rate Schedule.

2. If the Company supplies more kilowatt-hours of electricity than the customer-generator facility feeds back to the Company's system during the billing period, all charges of the appropriate rate schedule shall be applied to the net kilowatt-hours of electricity that the Company supplied. The customer-generator is responsible for the customer charge, demand charge and other applicable charges under the applicable Rate Schedule.

3. For customer-generators involved in virtual meter aggregation programs, any excess credit shall be applied first to the account containing the meter through which the generating facility supplies electricity to the distribution system, also known as the "host account". If the host account's usage has been fully offset by this credit and additional excess credit still remains, PECO will divide that remaining credit into equal parts based on the number of additional virtually metered accounts under the customer-generator's name, also known as "satellite accounts", and apply one part to each satellite account in a "waterfall"-like fashion at each account's designated rate. This process continues as PECO bills each subsequent satellite account, with any additional excess credits from each divided equally among the remaining satellite accounts. Virtual meter aggregation is the combination of readings and billing for all meters regardless of rate class on properties owned or leased and operated by a customer-generator by means of the Company's billing process, rather than through physical rewiring of the customer-generator's property for a physical, single point of contact. The customer-generators are responsible for the customer charge, demand charge and other applicable charges under the applicable Rate Schedule.

4. Procurement Class 3/4 customer-generators will receive a generation credit, at the PJM Day Ahead hourly energy rate, for each kilowatt hour received by the Company during each hour of the billing period up to the total amount of electricity delivered to the customer during each hour of the billing period.

   If a Procurement Class 3/4 customer-generator supplies more electricity to the Company than the Company delivers to the customer-generator during any hour in the billing period, the excess kilowatt hours shall not be carried forward to a subsequent billing period but will be credited in the current month toward generation charges based on the PJM Day Ahead hourly rate. Any excess kilowatt hours at the end of the PJM planning period will not carry over to the next year.

5. Procurement Class 3/4 customer-generators will also receive a variable distribution credit for each kilowatt hour received by the Company during the monthly billing period up to the total amount of electricity delivered to the Customer during the monthly billing period at the applicable distribution rate.

   If a Procurement Class 3/4 customer-generator supplies more electricity to the Company than the Company delivers to the customer-generator, the variable distribution charges will be reduced by the excess kilowatt hours, which will be carried forward and credited against the customer-generator's distribution kilowatt hours in subsequent billing periods until the end of the PJM planning period, ending May 31 of each year.

   Procurement Class 3/4 customer-generators are responsible for the customer charge, demand charge and other applicable charges under the applicable Rate Schedule.

   Any excess kilowatt hours at the end of the PJM planning period will not carry over to the next year and reduce distribution charges.

NET METERING FOR SHOPPING CUSTOMERS.

1. Customer-generators may take net metering services from EGSs that offer such services.

2. If a net-metering customer takes service from an EGS, the Company will credit the customer for distribution charges for each kilowatt hour produced by a Tier I or Tier II resource installed on the customer-generator's side of the electric revenue meter, up to the total amount of kilowatt hours delivered to the customer by the Company during the billing period. If a customer-generator supplies more electricity to the electric distribution system than the EDC delivers to the customer-generator in a given billing period, the excess kilowatt hours shall be carried forward and credited against the customer-generator's usage in subsequent billing periods at the Company's distribution rates. Any excess kilowatt hours at the end of the PJM planning period will not carry over to the next year and reduce distribution charges. The customer-generator is responsible for the customer charge, demand charge and other applicable charges under the applicable Rates Schedule.

3. If the Company delivers more kilowatt hours of electricity than the customer-generator facility feeds back to the Company's system during the billing period, all charges of the applicable rate schedule shall be applied to the net kilowatt hours of electricity that the Company delivered. The customer-generator is responsible for the customer charge, demand charge and other applicable charges under the applicable Rate Schedule.

RATE RS-2 NET METERING (continued)

4. Pursuant to Commission regulations, the credit or compensation terms for excess electricity produced by customer-generators who are customers of EGSs shall be stated in the service agreement between the customer-generator and the EGS.

5. If a customer-generator switches electricity suppliers, the Company shall treat the end of the service as if it were the end of the PJM planning period.

APPLICATION.

Customer-generators seeking to receive service under the provisions of this Rate must submit a written application online to the Company demonstrating compliance with the Net Metering Rate provisions and quantifying the total rated generating capacity of the customer-generator facility. The link to the online application can be found on the Green Power Connection pages on peco.com. **(C)**

INTERCONNECTION EXPIRATION.

Interconnection applications will be reviewed and processed in accordance with the timeframes designated by PECO in Act 213 and Title 52 of the Pa Code Chapter 75. A customer-generator (or authorized designee) must submit a completed certificate of completion ("COC") for residential level 1 and 2 interconnection applications to PECO within 180 calendar days from the date that PECO approves the interconnection application. If a COC is not received within 180 calendar days from the date that PECO approves the interconnection application then the residential level 1 and level 2 interconnection applications shall expire. A customer-generator may request an extension of a residential level 1 or level 2 application expiration date for good cause shown (i.e., that significant progress in construction of the interconnection has been or will be made). Upon a showing of good cause, the application expiration date will be extended. The length of the extension may be extended up to but no more than 180 calendar days. A customer-generator must make such extension requests in writing or via e-mail no less than 30 calendar days prior to an application's original expiration date. PECO will provide notice to developers of distributed generation at least 45 calendar days ahead of the original expiration date.

Any interconnection application in (a) Conditionally Approved or (b) Engineering Study status will expire in 6 months unless a customer-generator takes steps to (a) satisfy the conditions of the Conditional Approval or (b) pays for and moves forward with the Engineering Study. A customer-generator will be notified of the upcoming interconnection application expiration 45 calendar days ahead of the expiration date. Prior to the expiration of the 6-month period, a customer-generator may request an extension to resolve the outstanding issues surrounding their interconnection application. Upon a showing of good cause, the interconnection application expiration date will be extended up to but no more than 180 calendar days. **(C)**

MINIMUM CHARGE.

The Minimum Charges under Rate Schedule R, RH, CAP, GS, PD, HT and EP apply for installations under this Rate.

RIDERS.

Bills rendered by the Company under this Rate shall be subject to charges stated in any other applicable Rate.

(C) Denotes Change

RULES AND REGULATIONS (continued)

JB-5

21. GENERAL

21.1 OFFICE OF THE COMPANY. Wherever, in this Tariff, it is provided that notice be given or sent to the Company, or the office of the Company, such notice, delivered or mailed, postage prepaid to any commercial office, shall be deemed sufficient, unless the Principal Office of the Company at 2301 Market Street, Philadelphia, is expressly mentioned.

21.2 NO PREJUDICE OF RIGHTS. The failure by the Company to enforce any of the terms of this Tariff shall not be deemed a waiver of its right to do so.

21.3 GRATUITIES TO EMPLOYEES. The Company's employees are strictly forbidden to demand or accept any personal compensation, or gifts, for service rendered by them while working for the Company on the Company's time.

21.4 BILLING CHANGES. Where billing changes are made as the result of an investigation made at customer's request or by routine inspection, the change of billing may be applied to the bill for the regular meter reading period preceding such investigation, and will, in any event apply to the bill for the period during which the investigation is made.

21.5 EXCEPTIONAL CASES. The usual supply of electric service shall be subject to the provisions of this Tariff; but where special service-supply conditions or problems arise for which provision is not otherwise made, the Company may modify or adapt its supply terms to meet the peculiar requirements of such case, provided that such modified terms are a rational expansion of standard tariff provisions.

21.6 ASSIGNMENT. Subject to the Rules and Regulations, all contracts made by the Company shall be binding upon, and oblige and inure to the benefit of, the successors and assigns, heirs, executors and administrators of the parties thereto.

21.7 OTHER CHARGES. The Company may, if feasible, provide and charge for services, other than those provided for in this Tariff, when requested by the customer. The Company is not obligated to provide such services. The Company will, if possible, give the customer an advance written estimate of the costs to provide the service. Costs shall include, but not be limited to, materials, supplies, labor, transportation and overhead.

21.8 TAX INDEMNIFICATION. If PECO Energy becomes liable under Section 2806(g) or 2809(c) of the Public Utility Code, 66 C.S. §§ 2806(g) and 2809(c), for Pennsylvania state taxes not paid by an Electric Generation Supplier (EGS), the non-compliant EGS shall indemnify PECO Energy for the amount of additional state tax liability imposed upon PECO Energy 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 Reform Code of 1971 or Chapter 28 of Title 66.

22. RULES FOR DESIGNATION OF PROCUREMENT CLASS

22.1 DESIGNATION OF PROCUREMENT CLASS

a) Annually, in November the Company shall notify the customer of their procurement group class designation which shall be effective the following June 1.
b) The procurement class designation shall be used to determine the appropriate Generation Supply Adjustment to apply to the customer.
c) For non-residential customers, the procurement class shall be determined based upon the customers peak measured demand in the prior June-May period.
d) There shall be three procurement class designations. They are:
   1)Residential
   2)Small Commercial and Industrial up to and including 100 kW
   3)Large Commercial and Industrial greater than 100 kW
e) Procurement class designation shall only change once per year on the date established in rule 22.1a
f) A new customer in a new facility shall be assigned to a procurement class based upon an engineering estimate of the customer's diversified peak demand.
g) A new customer in an existing facility shall be assigned to the same procurement class as the last customer in that facility unless the new customer will use the existing facility in a substantially different manner.

PENNSYLVANIA
PUBLIC UTILITY COMMISSION
Harrisburg, PA 17105-3265

Public Meeting held October 27, 2016

Commissioners Present:

Gladys M. Brown, Chairman, Statement
Andrew G. Place, Vice Chairman
John F. Coleman, Jr.
Robert F. Powelson
David W. Sweet

Implementation of the Alternative Energy Portfolio Standards Act of 2004 — L-2014-2404361

SECOND AMENDED FINAL RULEMAKING ORDER

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Annex A

Annex B

The Commission is charged with carrying out the provisions of the Alternative Energy Portfolio Standards Act of 2004 (the "AEPS Act"), 73 P.S. § 1648.1, *et seq*. This obligation includes the adoption of any regulations necessary for its implementation and enforcement. The Commission has promulgated regulations pertaining to the net metering, interconnection and portfolio standard provisions of the AEPS Act.

Based on our experience to date in implementing the current regulations, the Commission finds that it is necessary to update and revise these regulations to comply with Act 129 of 2008, and Act 35 of 2007, and to clarify certain issues of law, administrative procedure and policy. The Commission has received and reviewed numerous public comments and is issuing final rules, as amended herein, based on the further comments submitted to and concerns expressed by the Independent Regulatory Review Commission (IRRC) and the Office of Attorney General (OAG). In its first disapproval order, the IRRC determined that approval of the rulemaking was not in the public interest. Specifically, the IRRC noted that Section 75.13(a)(3) of the proposed final-form rulemaking would have required alternative energy systems to be sized to generate no more than 200% of the customer-generator's annual electric consumption. IRRC determined that the Commission does not have the statutory authority to impose the limit in § 75.13(a)(3) of the final-form regulation. IRRC also stated that if the Commission decides to proceed with this rulemaking by deleting the limit on net metering subsidies included in § 75.13(a)(3) of the final-form regulation, it should ensure that other provisions of the regulation do not limit a customer-generator's ability to net meter excess generation it produces.

Upon consideration of the IRRC's concerns as outlined in its June 2, 2016 Order and the public comments submitted to IRRC regarding this rulemaking, the Commission modified the final-form regulations by removing any reference to non-statutory limits to a customer-generator's ability to net meter excess generation it produces in the Amended Final Rulemaking Order adopted and entered on June 9, 2016 at this Docket.

Specifically, the Commission removed the proposed Section 75.13(a)(3) and the reference to that section in the definition of utility. This Commission found that it was necessary to update and revise these regulations to comply with Act 129 of 2008, and Act 35 of 2007, and to clarify certain issues of law, administrative procedures and policy. The final-form regulations, modified as requested by IRRC, will continue to meet this need.

As explained more fully below, the Commission subsequently resubmitted the final-form regulations, as modified by the June 9, 2016 order, to IRRC, which again disapproved of the regulations. IRRC issued its second disapproval order on July 12, 2016, in which it found that the Commission's deletion of 75.13(a)(3) and the revised definition of "utility" created an unclear and ambiguous regulation and delivered it to the Legislative standing committees on the same day. Neither Committee reported a concurrent resolution on the final-form regulations as of July 26, 2016, accordingly, the Committees were deemed to have approved the final-form regulations in accordance with 71 P.S. § 745.7(d).

On August 11, 2016, the Commission delivered the final-form regulations to the OAG for form and legality review pursuant to the Commonwealth Attorneys Act at 71 P.S. § 732-204(b). On October 5, 2016, the OAG directed the Commission to change the definition of "utility" in Section 75.1 as prescribed by the OAG. Upon consideration of the direction of OAG to modify the definition of "utility" the Commission has modified the final-form regulations by incorporating the changes to the definition of "utility" in Section 75.1 as directed by the OAG. The Commission has also provided in this Order more explanation on the independent load requirement based on the concerns raised by the IRRC during its June 30, 2016 public meeting.

This Commission finds that it is necessary to update and revise these regulations to comply with Act 129 of 2008, and Act 35 of 2007, and to clarify certain issues of law,

administrative procedures and policy. The final-form regulations, modified as requested by IRRC in its initial disapproval order and as directed by the OAG, will continue to meet this need. As such, the Commission has determined that it will proceed in accordance with Section 7(d) of the Regulatory Review Act, 71 P.S. § 745.7(d), to adopt and promulgate amended final-form regulations addressing the concerns expressed by IRRC in its initial disapproval order and the OAG.

BACKGROUND

The AEPS Act, which became effective February 28, 2005, establishes an alternative energy portfolio standard for Pennsylvania. The Pennsylvania General Assembly charged the Commission with implementing and enforcing this mandate in cooperation with the Pennsylvania Department of Environmental Protection (DEP). 73 P.S. §§ 1648.7(a) and (b). The Commission determined that the Act is in *pari materia* with the Public Utility Code, and that it would develop the necessary regulations to be codified at Title 52 of the Pennsylvania Code. 1 Pa. C.S. § 1932.

The AEPS Act has been amended on two occasions. Act 35 of 2007, which took effect July 19, 2007, amended certain definitions and provisions for net metering and interconnection. Act 129 of 2008, which became effective on November 14, 2008, amended the AEPS Act by modifying the scope of eligible Tier I alternative energy sources and the Tier I compliance obligation. *See* 66 Pa. C.S. § 2814.

The Commission has previously issued the following rulemakings to implement the AEPS Act and its subsequent amendments:

- The Commission issued final, uniform net metering regulations for customer-generators. *Final Rulemaking Re Net Metering for Customer-generators pursuant to Section 5 of the Alternative Energy Portfolio Standards Act, 73 P.S. § 1648.5,* L-00050174 (Final Rulemaking Order entered June 23, 2006). These regulations were approved by the Independent Regulatory Review Commission (IRRC) and became effective on December 16, 2006.

- The Commission issued final, uniform interconnection regulations for customer-generators. *Final Rulemaking Re Interconnection Standards for Customer-generators pursuant to Section 5 of the Alternative Energy Portfolio Standards Act, 73 P.S. § 1648.5,* L-00050175 (Final Rulemaking Order entered August 22, 2006, as modified on Reconsideration September 19, 2006). These regulations were approved by the IRRC and became effective on December 16, 2006.

- The Commission revised the net metering regulations and certain definitions to be consistent with the Act 35 of 2007 amendments through a final omitted rulemaking. *Implementation of Act 35 of 2007; Net Metering and Interconnection*, Docket No. L-00050174 (Final Omitted Rulemaking Order entered July 2, 2008). These revisions were approved by IRRC and became effective November 29, 2008.

- The Commission issued final regulations governing the portfolio standard obligation. *Implementation of the Alternative Energy Portfolio Standards Act of 2004*, L-00060180 (Final Rulemaking Order entered September 29, 2008). These regulations were approved by IRRC and became legally effective December 20, 2008.

The above-referenced regulations are codified at Chapter 75 of the Public Utility Code, 52 Pa. Code §§ 75.1, *et seq*.

The Commission issued an Order to implement the AEPS related provisions of Act 129 in 2009. *Implementation of Act 129 of 2008 Phase 4 – Relating to the Alternative Energy Portfolio Standards Act*, Docket M-2009-2093383 (Order entered May 28, 2009). This rulemaking will also codify the processes and standards identified in that Order.

The Commission issued a Notice of Proposed Rulemaking (NoPR) for comment on February 20, 2014. *See Implementation of the Alternative Energy Portfolio Standards Act of 2004*, Proposed Rulemaking Order, Docket No. L-2014-2404361 (Order entered February 20, 2014). The Proposed Rulemaking Order and proposed rules were published in the *Pennsylvania Bulletin* on July 5, 2014, at 44 Pa.B. 4179. Comments were due

within 30 days of the publication of the proposed rules in the *Pennsylvania Bulletin* or August, 4, 2014. On August 1, 2014, the Commission, at the request of the Pennsylvania Department of Agriculture, issued a Secretarial Letter extending the comment period to September 3, 2014. Comments were received from the Independent Regulatory Review Commission and many other interested parties.

Other parties filing comments included Acuity Advisors and CPAs; the Ad Hoc Coalition of Customer Generators; Robin Alexander; the American Biogas Council (ABC); Karen Berry; Brubaker Farms; Vincent Cahill & Claire Hunter; the Center for Dairy Excellence; Chesapeake Bay Commission; Chesapeake Bay Foundation; Citizen Power; Citizens for Pennsylvania's Future and the PennFuture Energy Center (PennFuture); Crayola, Inc. (Crayola); Dauphin County Board of Commissioners; the Dauphin County Industrial Development Authority (DCIDA); Pennsylvania Department of Agriculture (PDA); Duquesne Light Company (Duquesne); the Distributed Wind Energy Association and United Wind et al. (DWEA/UW); the Energy Association of Pennsylvania (EAP); Enviro-Organic Technologies, Inc.; the Estate Security Formula / Gary L. James; State Representative Garth Everett; State Representative Robert L. Freeman; State Representatives Mindy Fee & David Hickernell; Granger Energy of Honey Brook LLC and Granger Energy of Morgantown LLC (Granger); Keith Hodge; the House Committee on Agriculture and Rural Affairs; Ideal Family Farms, LLC; Kish View Farm; L&S Sweeteners; Lancaster County Agriculture Council; Lancaster County Conservation District (LCCD); Lancaster Veterinary Associates (LVA); Lancaster County Solid Waste Management Authority (LCSWMA); Lehigh County Authority; Elsa Limbach; Kurt Limbach; Lycoming County Commissioners; the Mid-Atlantic Renewable Energy Association; Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company, and West Penn Power Company (FirstEnergy); the Pennsylvania Milk Marketing Board; Larry Moyer; the Neighbors of Yippee Farms; the Office of Consumer Advocate (OCA); Oregon Dairy, Inc. (Oregon Dairy); the Office of Small Business Advocate (OSBA); Paradise Energy Solutions (PES); Professional Dairy

Managers of Pennsylvania (PDMP); PECO Energy Company (PECO); PennAg Industries Association (PennAg); Pa Biomass Energy Association; DEP; Pennsylvania Farm Bureau (Farm Bureau); Pennsylvania Municipal Authorities Association; Pennsylvania State University (PSU); Pennsylvania Waste Industries Association; PJM Interconnection, LLC (PJM); PPL Electric Utilities Corporation (PPL); RCM International LLC; Reinford Farms; the Retail Energy Supply Association (RESA); the Sustainable Energy Education & Development Support of Northeast Pennsylvania; Sensenig Dairy; Sierra Club and Sierra Club Members & Supporters (Sierra Club); Solare America; SRECTrade, Inc. (SRECTrade); Sunrise Energy, LLC (Sunrise); the Sustainable Energy Fund (SEF); Tetra Tech, Inc.; the United States Department of Justice, Federal Bureau of Prisons (DOJ); State Representative Greg Vitali; Wanner's Pride-N-Joy Farm, LLC; John R. Williamson; State Senator Gene Yaw; and Yippee Farms.

The Commission issued an Advance Notice of Final Rulemaking (ANoFR) for comment on April 23, 2015. *See Implementation of the Alternative Energy Portfolio Standards Act of 2004*, Advance Notice of Final Rulemaking Order, Docket No. L-2014-2404361 (Order entered April 23, 2015). The Advance Notice of Final Rulemaking Order and proposed rules were published in the *Pennsylvania Bulletin* on May 9, 2015, at 45 Pa.B. 2242. Comments were due within 20 days of the publication of the proposed rules in the *Pennsylvania Bulletin* or May 29, 2015.

Comments were received from Ar-Joy Farms LLC; Arlin Benner and Family; Brubaker Farms (dated 5/25/15 and 5/26/15); the Center for Dairy Excellence; Citizen Power; (PennFuture); Crayola, Inc.; DCIDA; DEP; Duquesne; EAP; FirstEnergy; State Representative Robert W. Godshall (dated 4/27/15 and 5/26/15); Granger; Hard Earned Acres, Inc.; PennFuture, the Clean Air Council, the Reinvestment Fund, the Mid-Atlantic Renewable Energy Association (MAREA), the Sierra Club, the Solar Unified Network of Western Pennsylvania (SUNWPA), and the Pennsylvania Solar Energy Industries

Association (hereinafter Joint Commentators); Kish View Farm; Herb Kreider; Land O'Lakes, Inc. (Land O'Lakes); State Representative John A. Lawrence; LCSWMA; the League of Women Voters of Pennsylvania (LWV); Lycoming County Commissioners (dated 5/1/15 and 5/27/15); MAREA; MAREA et al; Larry Moyer; the National Milk Producers Federation (Milk Producers); Oakhill Farm; OCA; OSBA; PES; PDA; PDMP; PECO; the PennEnvironment Research and Policy Center; Farm Bureau; Pennsylvania Interfaith Power & Light (PA IPL); Pennsylvania State Grange (PSG); PSU; Pennsylvania Waste Industries Association (PWIA); PPL; RCM International LLC; Reinford Farms; Schrack Farms; Sensenig Dairy; SolarCity; Sunrise (dated 4/24/15, 5/2/15, 5/14/15, 5/15/15, 5/16/15 and 6/5/15); SUNWPA; TeamAg Inc.; and Turkey Hill Dairy.

The Commission adopted the Final Rulemaking Order on February 11, 2016, that adopted the revisions to its regulations pertaining to the alternative energy portfolio standard obligation, and its provisions for net metering and interconnection. *See Implementation of the Alternative Energy Portfolio Standards Act of 2004*, Final Rulemaking Order, Docket No. L-2014-2404361 (Order entered February 11, 2016). The Commission submitted the final-form regulations to the IRRC and the Legislative oversight Committees on March 22, 2016.

Comments were submitted to IRRC by Representatives Greg Vitali and Peter J. Daley, II; Senator Robert M. Tomlinson; Crayola, Inc.; DCIDA; DEP; DOJ; Duquesne; East Lycoming School District; Farm Bureau; FirstEnergy; Granger; LCSWMA; Lego V; Lehigh County Authority; Larry Moyer; PECO; PSU; PWIA; PennFuture, Clean Air Council, Reinvestment Fund, MAREA, Sierra Club, Environmental Defense Fund, SUNWPA, Environmental Entrepreneurs, and Pennsylvania Solar Energy Industries Association (Solar Energy and Environmental Advocates); SRECTrade; Sunrise; SUNWPA; and Turkey Hill Dairy.

The IRRC held a public meeting to review the final-form regulations on May 19, 2016, during which Robert C. Altenburg (PennFuture), David N. Hommrich (Sunrise), Larry Moyer and Mark Hammond testified. At the May 19, 2016 public meeting, the IRRC disapproved the final-form regulations and issued its Order on June 2, 2016.

Upon consideration of IRRC's concerns as outlined in the June 2, 2016 disapproval Order, and comments submitted to IRRC, the Commission, on June 9, 2016, issued an Amended Final Rulemaking Order that adopted modified final-form regulations that removed the non-statutory limits on a customer-generator's ability to net meter excess generation it produces. Specifically, the Commission removed § 75.13(a)(3) and the reference to that section in the definition of utility.

The Amended Final Rulemaking Order was delivered to IRRC and the Legislative oversight Committees on June 13, 2016 in accordance with 71 P.S. § 745.7(c). Following the submission to IRRC, IRRC staff contacted Commission staff informing Commission Staff that the format of the modified final-form regulations was not in compliance with § 311.4 of IRRC's regulations. On June 21, 2016, Law Bureau sent a letter to IRRC Chairman Bedwick with a copy of the revised pages of the modified final-form regulation in the corrected format to illustrate the changes. On June 22, 2016, IRRC Chairman Bedwick sent a letter to Law Bureau noting that the June 21, 2016 letter did not formally amend the final-form regulations, which could only be accomplished with a withdrawal and resubmittal by July 12, 2016.

Comments critical of the amended final-form regulations were submitted to IRRC by several interested parties, including Senator Charles T. McIlhinney, Jr. IRRC held a public meeting to review the modified final-form regulations on June 30, 2016, during which IRRC disapproved the modified final-form regulations. IRRC issued its second disapproval Order on July 12, 2016, in which it found that the Commission's deletion of 75.13(a)(3) and the revised definition of "utility" created an unclear and ambiguous

regulation. In addition, IRRC stated that they were not convinced of the need for all provisions of this rulemaking, noting that while the limit was deleted from the rulemaking, other provisions that limit a customer-generator's ability to net meter remain. The IRRC order failed to identify which provisions it believes establishes such a limit. Finally, IRRC determined that the revised final-form regulations did not comply with IRRC's regulation at 1 Pa. Code § 311.4 (report for a disapproved regulation submitted with revisions). For these reasons, IRRC found that promulgation of this regulation was not in the public interest.

IRRC issued its second disapproval order on July 12, 2016, in which it found that the Commission's deletion of 75.13(a)(3) and the revised definition of "utility" created an unclear and ambiguous regulation and delivered its order to the Legislative standing committees on the same day. Neither Committee reported a concurrent resolution on the final-form regulations as of July 26, 2016: accordingly, the Committees were deemed to have approved the final-form regulations in accordance with 71 P.S. § 745.7(d).

On August 11, 2016, the Commission delivered the final-form regulations to the OAG for form and legality review pursuant to the Commonwealth Attorneys Act at 71 P.S. § 732-204(b). On October 5, 2016, upon its review, the OAG directed the Commission to change the definition of "utility" in Section 75.1 as prescribed by the OAG.

SUMMARY OF CHANGES

For reasons of efficiency, the Commission will propose revisions to the portfolio standard, interconnection and net metering rules through a single rulemaking proceeding. The proposed changes to the existing regulations include, but are not limited to, the following:

- The addition of definitions for aggregator, default service provider, grid emergencies, microgrids, utility, and moving water impoundments.

- Revisions to the interconnection rules to reflect the increase in limits on customer-generator capacity contained in the Act 35 of 2007 amendments.

- Revisions to net metering rules and inclusion of a process for obtaining Commission approval to net meter alternative energy systems with a nameplate capacity of 500 kilowatts or greater.

- Clarification of the virtual meter aggregation language.

- Clarification of net metering compensation for customer-generators receiving generation service from electric distribution companies (EDCs), default service providers (DSPs) and electric generation suppliers (EGSs).

- Clarification of entities that do not qualify for net metering subsidies.

- Revisions to the definitions for low-impact hydropower and biomass to conform with the Act 129 of 2008 amendment.
- Addition of provisions for adjusting Tier I compliance obligations on a quarterly basis to comply with the Act 129 of 2008 amendments.

- Addition of provisions for reporting requirements for new low-impact hydropower and biomass facilities in Pennsylvania to comply with the Act 129 of 2008 amendments.

- Clarification of Commission procedures and standards regarding generator certification and the use of estimated readings for solar photovoltaic facilities.

- Clarification of the authority given to the Program Administrator to suspend or revoke the qualification of an alternative energy system and to withhold or retire past, current or future alternative energy credits for violations.

- Clarification of the process for verification of compliance with the AEPS Act.

- Standards for the qualification of large distributed generation systems as customer-generators.

DISCUSSION

A. IRRC Disapproval Orders

In its initial disapproval order, the IRRC determined that approval of the rulemaking was not in the public interest. The IRRC found that the Commission did not have the statutory authority in regard to certain elements of the rulemaking, and was in violation of Section 5.2(a) of the Regulatory Review Act (RRA). 71 P.S. § 745b(a). Specifically, the IRRC stated that Section 75.13(a)(3) of the proposed rulemaking would have required alternative energy systems to be "sized to generate no more than 110% of the customer-generator's annual electric consumption" and that the Commission increased the percentage from 110% to 200% in the final-form rulemaking. IRRC determined, based on its review of the Commission's written responses to IRRC's comments and the statements presented at the meeting of May 19, 2016 by interested parties, that the Commission does not have the statutory authority to impose the limit in § 75.13(a)(3) of the final-form regulation. IRRC also stated that if the Commission decides to proceed with this rulemaking by deleting the limit on net metering subsidies included in § 75.13(a)(3) of the final-form regulation, it should ensure that other provisions of the regulation do not limit a customer-generator's ability to net meter excess generation it produces. IRRC Order at 1-2.

IRRC also found that the rulemaking was not in the public interest relating to the RRA criterion of need. 71 P.S. § 745b(b)(3)(iii). IRRC noted that in its comments to the proposed rulemaking it stated that the Commission had not established the overall need for the changes being offered. In response to Question 10 of the Regulatory Analysis Form submitted with the final-form regulation, the purpose of the limit in § 75.13(a)(3)

"is to avoid having default service customers pay substantial net metering subsidies to merchant scale alternative energy systems." After review of this information, IRRC found that the Commission has not definitively quantified what the substantial net metering costs will be to other customers. In addition, IRRC noted that during the public meeting, the Commission stated that over-sized systems are not currently a problem in the Commonwealth, but could be in the future. Based on these responses, the IRRC found that the Commission had not established the compelling need for this rulemaking. IRRC Order at 3.

The final reason the IRRC found the rulemaking was not in the public interest relates to the RRA criteria of whether the regulation represents a policy decision of such a substantial nature that it requires legislative review. 71 P.S. § 745b(b)(4). IRRC stated that its comments noted that the implementation of the proposed limits on net metering subsidies could potentially curtail the development of alternative energy in the Commonwealth in conflict with the AEPS Act. IRRC further commented that any deviation from the intent of the AEPS Act would represent a policy decision that requires legislative review and encouraged the Commission to work closely with the members of the General Assembly and the designated standing committees to ensure the final-form regulation was within the scope of the Commission's granted regulatory authority. IRRC goes on to state that if the Commission continues to believe that some customer-generators that produce excess energy are causing economic harm to default service customers, IRRC encouraged the Commission to consult with the legislature to achieve a statutory remedy to this problem. IRRC Order at 3.

Upon consideration of the IRRC's concerns as outlined in its June 2, 2016 Order and the public comments submitted to IRRC regarding this rulemaking, the Commission modified the final-form regulations by removing any reference to non-statutory limits to a customer-generator's ability to net meter excess generation it produces. Specifically, the Commission removed the proposed Section 75.13(a)(3) and the reference to that section

in the definition of utility. In addition, the Commission renumbered the remaining subsection under Section 75.13(a) as directed by the IRRC.

In its second disapproval Order, IRRC again found that the rulemaking was not in the public interest for three reasons. First, IRRC found that the deletion of § 75.13(a)(3) and the revised definition of "utility" had created a regulation that was unclear and ambiguous, noting that this violates Section 5.2(b)(3)(ii) of the RRA, 71 P.S. § 745.5b(b)(3)(ii). Second, IRRC found that although the Commission had deleted the limit in § 75.13(a)(3), it believed that other provisions limit a customer-generator's ability to net meter, without identifying what those other provisions were. IRRC again found that a compelling need for all of the provisions of the rulemaking was not established by the Commission, in accordance with Section 5.2(b)(3)(iii) of the RRA, 71 P.S. § 745.5b(b)(3)(iii). Finally, IRRC found that the revised definition of "utility" found under § 75.1 and the revised portion relating to qualifications for net metering in § 75.13(a)(3) were not formatted in compliance with IRRC regulations at 1 Pa. Code § 311.4, violating Section 5.2(b)(6) of the RRA, 71 P.S. § 745.5b(b)(6), that requires compliance with the RRA or the IRRC regulations. IRRC determined that the regulation was not consistent with the statutory criteria of clarity and need and accordingly, found that promulgation of the regulation was not in the public interest.

The Commission disagrees with IRRC that the deletion of § 75.13(a)(3), as requested by IRRC in its initial disapproval Order, or the revised definition of "utility" creates an unclear and ambiguous regulation. However, the Commission can appreciate its concern and, accordingly, as directed by the OAG, the Commission has clarified the definition of "utility" to address those concerns. As to the second set of concerns, the Commission disagrees with IRRC that any of the remaining provisions of the regulations in any way limit a customer-generator's ability to net meter, and IRRC has not identified any specific provision that impose any limits beyond those contained in the AEPS Act.

Finally, as to formatting, this concern is overstated. The Commission staff provided IRRC with the revised pages of the final-form regulations following the IRRC's formatting, which IRRC published on its webpage. Accordingly, IRRC, the designated standing committees and the public were fully informed of the changes being offered by the Commission.

IRRC indicated in its July 12, 2016 disapproval Order cover letter that its disapproval bared the final publication of the regulations for 14 days. IRRC further noted that if either the Senate Consumer Protection and Professional Licensure Committee or House Consumer Affairs Committee reports out a concurrent resolution, the bar would continue until the General Assembly completes its review pursuant to Section 7(d) of the RRA, 71 P.S. § 745.7(d). Section 7(d) of the RRA, 71 P.S. § 745.7(d), further states in part that "[i]f, by the expiration of the 14-calander-day period, neither committee reports a concurrent resolution, the committees shall be deemed to have approved the final-form or final-omitted regulation, and the agency may promulgate that regulation." As neither the Senate Consumer Protection and Professional Licensure Committee nor House Consumer Affairs Committee reported out a concurrent resolution they are deemed to have approved these final-form regulations and the Commission may proceed with promulgation of the regulations. As previously stated, based on our experience to date in implementing the current regulation, this Commission finds that it is necessary to update and revise these regulations to comply with Act 129 of 2008, and Act 35 of 2007, and to clarify certain issues of law, administrative procedures and policy. The final-form regulations, modified as requested by IRRC in its initial disapproval order and as directed by the OAG, will continue to meet this need.

The following sections identify proposed revisions to the rules and the Commission's rationale.

B. General Provisions: § 75.1 Definitions

We have revised and clarified several definitions to conform with the amendments to and the intent of the AEPS Act. Furthermore, we have added definitions to provide clarity and guidance in accordance with the intent of the AEPS Act as amended.

1. Aggregator

We have added a definition for aggregator as this term is used later in these regulations. In the context of the AEPS Act, an aggregator is a person or entity that maintains a contract with alternative energy system owners to combine the alternative energy credits from multiple alternative system owners to facilitate the sale of the credits. In implementing the AEPS Act, we have found that due to the small size of many residential solar photovoltaic systems, most of these small alternative energy system owners have difficulty selling the few credits they produce in a year due to the administrative burdens and costs associated with finding a buyer. Due to these barriers, persons and entities have stepped in to assist these small system owners by combining or aggregating the credits produced by many of these small systems and selling those bundled credits. These aggregators are often the point of contact for EDCs and the program administrator when the systems are certified and the output is verified.

a. Comments

In their comments, SEF, SRECTrade, and PPL support the changes proposed in the NoPR, and suggest minor modifications. SEF NoPR comments at 2, SRECTrade NoPR comments at 2, PPL NoPR comments at 4.

b. Disposition

Consequently, a slight change was made to the definition for aggregator in the ANoFR. Comments supporting the proposed revised definition in the ANoFR were received from PPL and FirstEnergy. PPL ANoFR comments at 4, FirstEnergy ANoFR comments at 2. As such, we adopt the definition of aggregator as proposed in the ANoFR.

2. Alternative Energy Sources

The definition of alternative energy sources was revised to reflect the amendments to the definition for low-impact hydropower and biomass facilities from Act 129. The definition of Tier II alternative energy source will also be revised consistent with the change to the definition for biomass facilities in Act 129. *See* 66 Pa. C.S. § 2814.

a. Comments

SEF and PPL submitted comments supporting the proposed revisions. SEF NoPR comments at 2, PPL NoPR comments at 4, PPL ANoFR comments at 4. FirstEnergy submits comments opposing the proposed revision in the NoPR to the definition of Tier II alternative energy sources. FirstEnergy believes that the Commission intended for generation of electricity utilizing by-products of the pulping process and wood manufacturing process to be from facilities located *within* the commonwealth rather than *outside*. FirstEnergy recommends making changes to the proposed revision to the definition of Tier II alternative energy sources. FirstEnergy NoPR comments at 4.

b. Disposition

The Commission declines to adopt FirstEnergy's proposal as FirstEnergy's request is based on a faulty conclusion, as generation of electricity utilizing by-products of the pulping process and wood manufacturing process to be from facilities located *within* the Commonwealth is now under the definition of biomass energy and is a Tier I alternative energy source. Whereas electricity generation utilizing by-products of the pulping process and wood manufacturing process from facilities located *outside* the Commonwealth remains a separate Tier II alternative energy source.

3. Low-Impact Hydropower

The definition of low-impact hydropower was revised in the ANoFR to reflect amendments to the definition for low-impact hydropower from Act 129. Language was

added to clarify that only changes made to an existing hydroelectric power plant after the effective date of the AEPS Act will be considered incremental. No opposing comments were received to the proposed changes to the definition in the ANoFR. As such, we adopt the proposed amendments to the definition of low-impact hydropower and biomass facilities proposed in the ANoFR.

4. Distributed Generation System

We have also proposed more precise definitions for elements of the definition for distributed generation systems, which is defined in the AEPS Act as "the small-scale power generation of electricity and useful thermal energy." 73 P.S. § 1648.2. The current regulation simply repeats the definition in the AEPS Act. This definition is too ambiguous to be useful, and does not provide satisfactory regulatory guidance to potential applicants regarding whether they can qualify a system as an alternative energy source. To provide clarity, we have added a capacity limit to provide guidance as to which facilities qualify. In addition, we have added a definition for useful thermal energy that is technology and fuel neutral but does not include common merchant generation facilities, such as combined-cycle electric generation facilities. We believe the proposed definition captures the intent of the General Assembly to use the waste heat from the generation of electricity to offset the use of another fuel source to generate heat for a purpose other than the generation of electricity. The proposed definition will permit a combined heat and power facility with a nameplate capacity of five megawatts or less to qualify as a Tier II alternative energy source.

Defining small-scale is more difficult. Unlike useful thermal energy, the phrase small-scale is not a commonly recognized or defined term in the context of the regulation of electric generation. However, given that this is a form of distributed generation, we find it reasonable to apply the capacity limits for customer-generators to the definition of distributed generation systems. Accordingly, we will limit this Tier II alternative energy source to five megawatts of capacity as well. We note, however, that such distributed

generation does not have to qualify as a customer-generator to qualify as a Tier II alternative energy source.

a. Comments

In their comments, PPL supports the changes proposed in the NoPR and ANoFR to the definition for distributed generation systems. PPL, however, is concerned that the term "useful thermal energy" is subjective and could result in different and possibly conflicting interpretations regarding whether such energy is eligible for purposes of net metering. PPL recommends that the Commission provide further clarification. PPL NoPR comments at 4-5, PPL ANoFR comments at 6-7.

Comments provided by PECO to the ANoFR state that the proposed revised definition will indicate that distributed generation systems may not have a nameplate capacity that is greater than five megawatts. PECO believes that this designation will lead to confusion over the allowable nameplate capacities for distributed generation systems as set forth in the definition for customer-generator. PECO, based on the proposed language, states that customers may mistakenly believe that it is acceptable to interconnect a distributed generation system between three and five megawatts without having to comply with the requirements and specifications contained in the definition of customer-generator. To avoid such misunderstandings, PECO recommends that the Commission revise the proposed regulations to clarify that distributed generation systems with nameplate capacities between three and five megawatts are only allowable if they comply with the requirements set forth in the definition of customer-generator. PECO ANoFR comments at 3.

Sunrise states in its ANoFR comments that it seems as if the Commission intends to preclude the use of combined-cycle electric generation from net metering. Sunrise ANoFR comments in a letter dated 6/5/15.

b. Disposition

We agree in part and disagree in part with PECO's recommendation that distributed generation systems sized between three and five megawatts are only allowable if they comply with the requirements set forth in the definition of customer-generator. For purposes of net metering, we agree with PECO that a customer with a distributed generation system sized between three megawatts and five megawatts must comply with the requirements set forth in the definition of customer-generator and be approved under the appropriate interconnection procedures. We, however, disagree that such restrictions apply to distributed generation systems that are not receiving net metering. The AEPS Act permits all defined alternative energy systems of any size to qualify as a Tier I or Tier II resource, as defined in the AEPS Act, and generate associated alternative energy credits that can be used by EDCs and EGSs for compliance obligations. PECO's suggested change would treat distributed generation systems differently from other alternative energy sources by requiring distributed energy systems to qualify for net metering to qualify as an alternative energy system. PECO has not suggested, and the Commission cannot identify, a justifiable reason to treat distributed energy systems differently. We, therefore, decline to adopt PECO's suggestion and adopt the definition of distributed generation system as proposed.

5. Customer-Generator And Utility

We also revised the definition of customer-generator and added a definition for utility to make it clear that the definition applies to retail electric customers and not electric utilities, such as EDCs and merchant generators that are in the business of providing electric services. In addition, the changes make it clear that non-electric utilities, such as water and wastewater utilities are not included in the definition's prohibition against utilities qualifying as a customer-generator.

The AEPS Act defines customer-generator as "[a] nonutility owner or operator of a net metered distributed generation system with a nameplate capacity of not greater than 50 kilowatts if installed at a residential service or not larger than 3,000 kilowatts at other

customer service locations…." 73 P.S. § 1648.2. In analyzing this definition, we note that the legislature used the word "customer" in this term. Customer is commonly understood as "one that purchases a commodity or service."[1] Furthermore, it must be noted that the Public Utility Code defines customer as a retail electric customer in the context of the electric utility industry. *See* 66 Pa. C.S. § 2803. The Public Utility Code further defines a retail electric customer as a direct purchaser of electric power. *Id.* In the context of the AEPS Act, the commodity or service being provided is electricity or electric service. Accordingly, the term customer-generator by itself connotes an entity which is primarily an end user of electricity or electric service from EDCs, from EGSs and from merchant generators. The person or entity must purchase electricity or electric service to be considered a customer under the AEPS Act.

Furthermore, this definition specifically identifies a customer-generator as a "nonutility owner or operator" of the distributed generation system. While the AEPS Act does not define what a utility or nonutility is, common usage of the term utility, in the

[1] *See* WEBSTER'S NINTH NEW COLLEGIATE DICTIONARY 318 (1983).

context of the purchase of electricity or electric service, is defined as "a service (as light, power, or water) provided by a public utility."[2] Thus, a nonutility would be one who does not provide a service, such as electric service in the context of the AEPS Act. A customer-generator is one who is not in the business of providing electric power to the grid or other electric users. As such, we have defined a utility in this context as a person or entity whose primary business is electric generation, transmission, or distribution services, at wholesale or retail, to other persons or entities.

a. Comments On Customer-Generator

In their comments, PPL, Duquesne and FirstEnergy, support the changes proposed in the NoPR and ANoFR to the definition of customer-generator. PPL NoPR comments at 5-6, PPL ANoFR comments at 4-5, Duquesne NoPR comments at 2, FirstEnergy NoPR comments at 3, FirstEnergy ANoFR comments at 2. Comments to the NoPR opposing the addition of "retail electric customer" in the definition were received from Granger, PennFuture, and DWEA/UW. Granger NoPR comments at 20-22, PennFuture NoPR comments at 4-5, DWEA/UW NoPR comments at 4.

The IRRC states in their comments to the NoPR that adding the term "retail electric customer" could alter the landscape of the alternative energy market that, to some degree, relies on the third party ownership model. The IRRC asks that the Commission further explain how it ascertained that the inclusion of this term is consistent with the intent of the General Assembly and the overall purpose of the Act. IRRC NoPR comments at 5.

Sunrise, Granger, DEP, PDA, and the Farm Bureau disagree with the proposed definition of customer-generator and suggest changes in their comments to the ANoFR. Sunrise avers that the Commission's proposed regulations contravene the AEPS Act and

[2] *See* WEBSTER'S NINTH NEW COLLEGIATE DICTIONARY 1300 (1983).

intent of the legislature by imposing size limitations on net metering. Sunrise ANoFR comments in a letter dated 5/2/15.

Granger believes the phrase "retail electric customer" should be removed from the proposed definition and that the use of the phrase is not consistent with the AEPS Act. The use of the phrase could prohibit customer-generators who manage their own internal distribution system from using a net metered alternative energy system. Granger proposes that 'grandfathering' be extended to the expansion of existing projects up to the full nameplate capacity set forth in the Act. Granger ANoFR comments at 7-8.

The DEP urges the Commission to maintain net metering rules which are flexible enough to encourage innovation in the deployment of new technologies. For example, at the residential level, retail electric customers may lease solar equipment from a solar company and allow the company to own and operate the equipment. In other instances, a farm operating a bio digester may choose to establish a separate legal entity to operate the distributed generation system. DEP ANoFR comments at 1.

The PDA echoes the comments of the DEP. PDA opposes the definition suggesting it be altered to be consistent with the change suggested for §75.13 (a)(4) by inserting "unless it is designed to produce no more than 200% of the customer-generator's annual electric consumption or satisfies the conditions set forth in §75.13 (a)(3)(IV)." PDA ANoFR comments at 2-3.

b. Disposition Of Customer-Generator

We disagree with Sunrise and Granger statements that the proposed regulations contravene the AEPS Act and the intent of the legislature. The AEPS Act defines customer-generator as a "nonutility owner or operator" of the distributed generation system. As such, the customer is defined as "one that purchases a commodity or

service." Furthermore, the Public Utility Code defines customer as a retail electric customer and a direct purchaser of electric power.

In response to IRRC's comment, we initially note that net metering is only one part of the entire regulatory scheme created by the General Assembly to promote alternative energy. The primary regulatory scheme is the requirement that 18 percent of all electric retail sales to Commission jurisdictional electric service customers are to be supplied from the statutorily identified alternative energy sources.[3] This requirement is met primarily by EDCs and EGSs purchasing alternative energy credits, which are created when an alternative energy source generates one megawatt-hour of electricity. Under this scheme, the alternative energy source owner receives at least two streams of revenue from the generation of each megawatt-hour of electricity it produces: one from the actual sale of the electricity itself, and one from the sale of the alternative energy credit, which EDCs and EGSs are mandated to purchase to meet the 18 percent requirement. In addition, some of these alternative energy systems are able to receive production tax credits for each megawatt-hour of generation or investment tax credits.

While net metering is one of the regulatory schemes created to promote alternative energy, it is not available to all alternative energy systems. The General Assembly limited net metering to only customer-generators. The AEPS Act defines customer-generator as:

> A nonutility owner or operator of a net metered distributed generation system with a nameplate capacity of not greater than 50 kilowatts if installed at a residential service or not larger than 3,000 kilowatts at other customer service locations, except for customers whose systems are above three megawatts and up to five megawatts who make their systems available to operate in parallel with the electric utility during grid emergencies as defined by the regional transmission organization or where a microgrid is in place for the primary or secondary purpose of maintaining

[3] While small scale net metered systems provide a portion of the alternative energy available to meet this 18 percent of all retail electric sales requirement, we note that meeting this requirement relies primarily on utility scale generation that is precluded from net metering by the AEPS Act.

> critical infrastructure, such as homeland security assignments, emergency services facilities, hospitals, traffic signals, wastewater treatment plants or telecommunications facilities, provided that technical rules for operating generators interconnected with facilities of an electric distribution company, electric cooperative or municipal electric system have been promulgated by the Institute of Electrical and Electronic Engineers and the Pennsylvania Public Utility Commission.

This long and comprehensive definition has many elements that limit which persons or entities are considered as customer-generators. The rules of statutory construction require the Commission to interpret and apply this definition in a manner that gives full effect to all the words in the definition. 1 Pa. C.S. § 1921(a).

To begin with, the term itself – customer-generator – includes the term "customer" before the term "generator," expressly implying that the person or entity seeking customer-generator status must first be a customer of the EDC receiving retail electric service from the EDC. Next, the definition expressly refers to electric customers, specifically, "residential service," "other customer service locations," and "except for customers," that clearly identify the predicate that customer-generator status is entirely intended for persons or entities that are in fact electric customers. One cannot have residential service or have other customer service locations unless one is first a customer of the EDC. Furthermore, the definition specifically gives examples of retail electric customer facilities. Specifically, it mentions emergency services facilities, hospitals, traffic signals, wastewater treatment plants and telecommunications facilities, all of which are customer facilities that operate and use electric service independent of any associated alternative energy system. Adding the term "retail electric customer" to the definition of customer-generator in these regulations is consistent with the AEPS Act and makes clear and explicit what was intended by the General Assembly. Reading the definition otherwise would make the word "customer" in customer-generator and the terms "residential service," "other customer service locations," and "except for

customers," and the specific references to retail electric customer facilities superficial, meaningless and without effect.

Furthermore, the AEPS Act is replete with references and terms defined in and covered by the Public Utility Code that relate to the same persons or things or the same class of persons or things. As such, both statutes must be read in *pari materia* and construed together as one statute. *See* 1 Pa.C.S. § 1932. As discussed previously, the Public Utility Code defines a customer as "[a] retail electric customer." *See* 66 Pa. C.S. § 2803. Accordingly, the definition of customer-generator applies to retail electric customers and is adopted as proposed.

c. Comments On Utility

PPL and Duquesne submitted comments supporting the changes proposed in the NoPR and ANoFR to the definition of utility. PPL NoPR comments at 6, PPL ANoFR comments at 7, Duquesne NoPR comments at 3.

Granger, DCIDA, Solare America, LCSWMA, DOJ and numerous other parties feel that the proposed definition of utility excludes net metering projects involving companies that do not fit the new definition. Granger NoPR comments at 17-20, DCIDA NoPR comments at 9-13, Solare America NoPR comments at 1, LCSWMA NoPR comments at 1, DOJ NoPR comments at 1-2.

PennFuture, the American Biogas Council, Citizen Power, and many other commentators stated that the proposed definition of utility is too broad and a threat to the "third-party ownership" model. PennFuture NoPR comments at 3-4, the American Biogas Council NoPR comments at 2-3, Citizen Power NoPR comments at 2.

In their comments, the IRRC noted that commentators indicated that the definition of utility is overly broad and could be interpreted to include entities not intended by the

Commission, such as landlords. Concerns have been raised that this definition, read in conjunction with the revised definition of customer-generator, would threaten the third-party ownership model. The IRRC asks the Commission to provide a more precise definition of this term and to consider using the statutory term "public utility." IRRC NoPR comments at 5.

PSU comments strongly emphasize that non-profits are not eligible for tax breaks and must partner with 'third parties' for the capital needed to finance renewable energy projects. PSU NoPR comments at 3-7.

Based on suggestions and comments from stakeholders that were received in regards to the proposed changes in the NoPR, the definition of utility was amended in the ANoFR to exclude persons or entities that own or operate alternative energy systems that are clearly not merchant generators.

Comments opposing the changes proposed in the ANoFR to the definition of utility were received from many parties. PES, Citizen Power, and others believe that the definition is still too broad and request changes to the definition of utility. RCM International LLC, PDMP, PDA, and many other parties feel that the definition of utility may conflict with the 200% limitation waiver found in §75.13(a)(3)(IV) and request the definition be subject to § 75.13(a)(3)(IV). Sunrise avers that the word 'public' was dropped in haste and that the Commission should cease from gratuitous wordsmithing. PDA ANoFR comments at 1-2, Citizen Power ANoFR comments at 2, RCM International LLC ANoFR comments at 1, PDMP ANoFR comments at 2, PES ANoFR comments at 1, Sunrise ANoFR comments in a letter dated 4/24/15.

The Lycoming County Commissioners request in their comments to the ANoFR that clarity be provided by adding that a utility is a person or entity that provides electric generation, transmission or distribution services at wholesale or retail, to other persons or

entities for the public good and who are regulated by the public utility commission. Lycoming County Commissioners ANoFR comments at 1-2 in a letter dated 5/1/15 and 1-3 in a letter dated 5/27/15.

DCIDA submits that the proposed definition of utility is confusing and will generate misunderstandings. The size limitation language used in the definition creates a situation where existing facilities could be considered not eligible for net metering. DCIDA avers that the Commission has not satisfied the criteria to promulgate the proposed definition and that said definition is not in the public interest. DCIDA ANoFR comments at 6-8.

In their comments addressing the definition of utility, LCSWA, PPL, and others request that all existing net metering installations be allowed to continue net metering and not be subject to the proposed definition of utility. LCSWA ANoFR comments at 1, PPL ANoFR comments at 15.

d. OAG Directed Change

On August 11, 2016, the Commission submitted the final-form regulations to the OAG for review as to form and legality in accordance with the Commonwealth Attorneys Act at 71 P.S. § 732-204(b). The OAG has 30 days to determine if a "regulation is in improper form, not statutorily authorized or unconstitutional." *Id.* The Commission may revise the regulation to meet the objections of the OAG. *Id.* If an agency disagrees with the OAG objection, "it may promulgate the rule or regulation with or without the revisions and shall publish with it a copy of the Attorney General's objections." *Id.* However, the OAG can:

> appeal the decision of the agency by filing a petition for review with the Commonwealth Court in such manner as is provided for appeals from final orders of government agencies pursuant to 42 Pa.C.S. § 763 (relating to direct appeals from government agencies) and may include in the petition a

> request for a stay or supersedeas of the implementation of the rule or regulation which upon a proper showing shall be granted.

Id.

On September 1, 2016, the OAG sent a memo to Commission staff tolling the thirty-day statutory review period and seeking clarification on the regulations. Commission staff discussed the regulations with OAG staff and on September 1, 2016, provided responses to OAG staff questions. On October 5, 2016, the OAG sent a memo, attached to this Order in Annex B, directing the Commission to amend the definition of "utility" in Section 75.1 to read as follows:

> Utility – a business, person or entity whose primary purpose, character, or nature is the generation, transmission, distribution or sale of electricity at wholesale or retail. This term excludes building or facility owners or operators that manage the internal distribution system serving such building or facility and that supply electric power and other related power services to occupants of the building or facility.

The OAG memo then states that "this regulation is hereby approved for form and legality, contingent upon the adoption of this revised definition by the Commission at a Commission Public Meeting as soon as is practical."

e. Disposition Of Utility

To begin with, the Commission finds that the definition of "utility" as modified by the OAG provides further clarity consistent with the original intent of the Commission. In the Notice of Proposed Rulemaking Order, issued on February 20, 2014, the Commission stated that "we have defined a utility in this context as a person or entity whose **primary business** is electric generation, transmission, or distribution services, at wholesale or retail, to other persons or entities." *See Implementation of the Alternative Energy Portfolio Standards Act of 2004*, Notice of Proposed Rulemaking Order at Docket

No. L-2014-2404361, entered February 20, 2014 at 8 (emphasis added).[4] The language OAG directed to include, "a business, person or entity whose primary purpose, character, or nature is…" encapsulates the intent of the Commission for the term utility to apply to persons or entities whose primary business is electric generation, transmission, or distribution services, at wholesale or retail. We also find that the phrase "to other persons or entities" is superfluous, as wholesale and retail services by their nature involves other persons or entities. Accordingly, as directed by the OAG, the Commission amends its June 9, 2016, Amended Final Rulemaking Order, at this Docket, by adopting and incorporating these changes to the definition of "utility" in Section 75.13 of the final-form regulations found in Annex A of this order.

As discussed above, the Commission must interpret and apply the definition of customer-generator in a manner that gives full effect to all the words in the definition. 1 Pa. C.S. § 1921(a). The definition of customer-generator specifically states that they are "[a] nonutility owner or operator of a net metered distributed generation system…." 73 P.S. § 1648.2. As such, only distributed generation systems owned and operated by nonutilities can qualify as a customer-generator. Or, in other words, a distributed generation system that is owned or operated by a utility cannot qualify as a customer-generator. The Commission has determined that it is easier to identify what a utility is as opposed to identifying all persons or entities that are not utilities.

To begin with, neither the term nonutility nor the term utility is defined in the AEPS Act. Nor are they defined in the Public Utility Code. The Public Utility Code, does however, define the term "public utility," which several parties state should be used for the purposes of the term "nonutility" in the definition of customer-generator. The Public Utility Code, in part, defines a public utility as follows:

[4] We also note that the same language appears on page 13 of the February 11, 2016, Final Rulemaking Order, and page 17 of the June 9, 2016, Amended Final Rulemaking Order, as well as in Section B.5.a. of this Order.

(1) Any person or corporation now or hereafter owning or operating in this Commonwealth equipment or facilities for:
(i) Producing, generating, transmitting, distributing or furnishing natural or artificial gas, electricity, or steam for the production of light, heat, or power to or for the public for compensation.

See 66 Pa. C.S. § 102. The Public Utility Code goes on to indicate which persons or entities are not public utilities. Specifically, the Public Utility Code indicates, in part, the term "public utility" does not include the following:

(2) The term does not include:
(i) Any person or corporation, not otherwise a public utility, who or which furnishes service only to himself or itself.
....
(v) Any building or facility owner/operators who hold ownership over and manage the internal distribution system serving such building or facility and who supply electric power and other related electric power services to occupants of the building or facility.
(vi) Electric generation supplier companies, except for the limited purposes as described in sections 2809 (relating to requirements for electric generation suppliers) and 2810 (relating to revenue-neutral reconciliation).

Id. As the Public Utility Code explicitly excludes from the definition of "public utility" persons or entities that furnish services only to themselves, or who manage the internal distribution system serving occupants of a building or facility they own and operate, or EGSs, the term "public utility" is not synonymous with the use of the word "utility" in the definition of customer-generator. Had the General Assembly intended to specifically exclude persons or entities that furnish services only to themselves, or who manage the internal distribution system serving occupants of a building or facility they own and operate, or EGSs, from the term "utility" in the definition of the customer-generator, it would have specifically included the term "public utility" in that definition.

But the General Assembly did not use the term "public utility" in the definition of customer-generator. Therefore, we must presume that the General Assemble intentionally chose the term "utility" in this definition for another reason. Initially, we

note that the AEPS Act involves the generation of electricity by specifically identified alternative energy systems of any size or capacity. We also note that since the restructuring of the electric utility industry with the enactment of the Electric Generation Customer Choice and Competition Act (Electric Competition Act), 66 Pa. C.S. §§ 2801, *et seq*., in 1996, no electric public utility owns or operates electric generation facilities. The Electric Competition Act specifically required the:

> electric utilities to unbundle their rates and services and to provide open access over their transmission and distribution systems to allow competitive suppliers to generate and sell electricity directly to consumers in this Commonwealth. The *generation of electricity will no longer be regulated as a public utility* function except as otherwise provided for in this chapter. Electric generation suppliers will be required to obtain licenses, demonstrate financial responsibility and comply with such other requirements concerning service as the commission deems necessary for the protection of the public.

66 Pa. C.S. § 2802(14) (emphasis added). The Commission must presume that the General Assembly knew this fact when it enacted the AEPS Act on November 30, 2004, almost eight years after it enacted the Electric Competition Act. Therefore, as no public utility has owned or operated electric generation facilities since the implementation of the Electric Competition Act in the 1990s, it would make the word "nonutility" surplus language if it were interpreted as meaning "nonpublic utility," which the rules of statutory

construction preclude. *See* 1 Pa. C.S. § 1921; *see also Commonwealth v. Ostrosky*, 909 A.2d 1224, 1232 (Pa. 2006).[5]

Finally, the rules of statutory construction preclude an interpretation that would produce a result that was "unreasonable." 1 Pa. C.S. § 1922(1). Net metering allows the customer-generator to obtain above-market prices for electricity produced by certain alternative energy resources. This benefit is subsidized by ratepayers and constitutes a transfer of wealth from the utility's general body of ratepayers to customer-generators in order to promote alternative energy resources. However, to allow *de facto* merchant generators to obtain the customer-subsidized benefits of net metering would be, in the Commission's judgement, an unreasonable interpretation of the statute and would result in unjust and unreasonable rates.

For these reasons, the Commission finds that the General Assembly had a broader interpretation of the term "utility" in mind when it defined customer-generator to include any person or entity that provides electric generation, transmission or distribution services, at wholesale or retail, to other persons or entities, and that this term includes within its scope, merchant generators. These are entities that do not qualify for net metering subsidies.

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[5] We also note that the definition of customer-generator in the AEPS Act specifically references critical infrastructure such as wastewater treatment plants and telecommunications facilities, both of which are owned and operated by public utilities. See 66 Pa. C.S. § 102 (definition of Public utility (1)(vi) "conveying or transmitting messages or communications . . ., by telephone or telegraph …." And (1)(vii) "Sewage collection, treatment, or disposal for the public for compensation."). Accordingly, interpreting the term "nonutility" as meaning "nonpublic utility" would preclude public utilities that own and operate wastewater treatment plants and telecommunications facilities from qualifying as customer-generators. There is no indication in the AEPS Act that indicates that only owners and operators of wastewater treatment plants and telecommunications facilities that are not regulated public utilities can qualify as a customer-generator. Again, interpreting "nonutility" to mean "nonpublic utility" would create a direct conflict within the statute. We must interpret the statute in a manner that gives effect to all provisions, if possible. *See* 1 Pa. C.S. § 1933.

We, however, do not find that the definition was intended to be so broad that it would preclude, from qualifying for net metering subsidies, persons or entities that own or operate distributed generation systems to supply their own power needs or to buildings or facilities they own and where they manage the internal distribution system serving such buildings or facilities. In the February 11, 2016 Final Rulemaking Order, we had revised the definition of utility to exclude owners or operators of an alternative energy system that was designed to produce no more than 200% of a customer-generator's annual electric consumption or that satisfies the conditions set forth in § 75.13(A)(3)(iv). However, as the IRRC disapproved of this limitation in its June 2, 2016 Order, we will delete this reference in this amended final rulemaking. We, however, will retain the language that excludes building or facility owner/operators that manage the internal distribution system serving such building or facility and that supply electric power and other related power services to occupants of the building or facility.

Regarding comments that suggest that this definition should only be applied to new facilities, the Commission declines to adopt such a provision. As noted throughout this rulemaking, the Commission is revising the regulations to provide clarity to all interested parties and to facilitate uniform application throughout the Commonwealth. As this provision is simply providing clarity as to what the term "nonutility" means in the definition of customer-generator as enacted in the AEPS Act, and as the Commission is charged by the General Assembly to carry out the responsibilities delineated within the AEPS Act, we cannot ignore this provision of the AEPS Act and must enforce it. To do otherwise, would simply permit all parties, including sophisticated parties in the business of generating electricity to claim ignorance as to the meaning of the statutory language and qualify as a customer-generator based on that ignorance or misinterpretation. We note that if these parties had any question as to their status, they could have sought a declaratory order removing this uncertainty. *See* 66 Pa. C.S. § 331(f). To date, no party sought such relief.

6. Grid Emergencies And Microgrid

The AEPS Act permits facilities with a nameplate capacity of between three megawatts and up to five megawatts to qualify as customer-generator facilities provided that they make their systems available to operate in parallel with the electric utility during grid emergencies as defined by the regional transmission organization (RTO) or where a microgrid is in place for the primary or secondary purpose of maintaining critical infrastructure. In the proposed rulemaking we added definitions for grid emergencies and microgrid to provide guidance on when facilities with a nameplate capacity of between three megawatts and up to five megawatts meet the conditions to qualify as a customer-generator.

The proposed definition for grid emergencies came from PJM Manual 13 Emergency Operations.[6] As PJM is currently the only RTO serving Pennsylvania, this definition is appropriate.

The proposed definition for microgrid references and incorporates the description of a microgrid provided by the Institute of Electrical and Electronic Engineers (IEEE) standard 1547.4. This standard can be found in the IEEE Guide for Design, Operation, and Integration of Distributed Resource Island Systems with Electric Power Systems.

a. Comments

Comments supporting the changes proposed in the NoPR to the definition of grid emergencies with suggestions for modification and clarification were received from PPL, FirstEnergy, PECO, and EAP. PPL NoPR comments at 6-7, FirstEnergy NoPR comments at 3, PECO NoPR comments at 3-4, EAP NoPR comments at 3.

PECO stated that it understands that the Commission's proposed definition of grid emergencies was taken from the PJM Manual 13 Emergency Operations. The manual

provides guidance, rules, instructions and procedures as defined in PJM's Open Access Transmission Tariff (OATT). In light of the fact that the OATT is the authoritative document for PJM grid operations, PECO believes that the definition of grid emergencies should be based on and incorporate the OATT's complete definition of "emergency condition" for clarity and to avoid potential conflicts with FERC-approved provisions. PECO NoPR comments at 3-4.

Oregon Dairy, Inc. submitted comments opposing the changes proposed in the NoPR to the definition of grid emergencies. Oregon Dairy, Inc. avers that the proposed definition is a limitation on renewable project capacity and not a realistic route to larger projects. Oregon Dairy, Inc. NoPR comments at 2.

The Commission agreed with the comments submitted by PECO and proposed a revision in the ANoFR to the definition of grid emergency to reference the PJM OATT.

PPL supports the changes proposed in the ANoFR to the definition of grid emergencies, but recommends further clarification. PPL ANoFR comments at 5.

In response to several requests for clarification and modification to the definition of grid emergencies, the Commission finds that the proposed definition covers all and any emergency and that adding supplementary language to clarify as suggested by PPL would be duplicative and unnecessary. Accordingly, we adopt the definition of grid emergencies as an emergency condition as defined in the OATT or successor document, as proposed in the ANoFR.

In their comments, PPL and FirstEnergy, support the changes proposed in the NoPR and ANoFR to the definition of microgrid with FirstEnergy proposing several edits

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[6] See PJM Manual 13, PJM Manual for Emergency Operations at 3, which is available at the following link: http://www.pjm.com/~/media/documents/manuals/m13.ashx.

to the definition. PPL NoPR comments at 6, PPL ANoFR comments at 6, FirstEnergy NoPR comments at 4.

b. Disposition

The edits to the proposed definition of "microgrid" suggested by FirstEnergy provide clarity, specifically applicable to EDC distribution systems. As these regulations relate to EDC distribution systems, we find that the added clarity suggested by FirstEnergy to be appropriate and have adopted the definition of microgrid with the edits suggested by FirstEnergy.

7. Moving Water Impoundment

The definitions for large-scale hydropower and low-impact hydropower in the AEPS Act both contain the phrase "the hydroelectric potential of moving water impoundments." The AEPS Act, however, does not define what moving water impoundments are. We have proposed a definition for moving water impoundments to provide guidance and clarity. This definition is intended to make it clear that in addition to hydroelectric facilities that utilize dams to impound water, electric turbines placed in rivers or streams without a dam also qualify as hydropower within the AEPS Act.

a. Comments

Comments supporting the changes proposed in the NoPR to the definition of moving water impoundments were received from PECO, PPL and FirstEnergy. PECO NoPR Comments at 4, PPL NoPR Comments at 7, PPL ANoFR Comments at 6, FirstEnergy NoPR comments at 2-3. PECO, however, believes that the language should be expanded to make it clear that systems that do not directly involve naturally flowing water (in rivers and streams), such as systems that generate electricity by removing water from the natural flow, placing it in a containment tank and then using the pressure reducing valves, would not qualify as moving water impoundments. PECO NoPR Comments at 4.

b. Disposition

We appreciate PECO's suggestion to add language to the definition in an attempt to clarify that only a system that generates electricity from naturally flowing water qualifies as a moving water impoundment. We, however, find that PECO's suggested language creates ambiguity as opposed to adding clarity. We find that the proposed definition, when read in context with the definitions for large-scale hydropower and low-impact hydropower found in the AEPS Act, clearly indicates what types of impoundments would qualify. As such, the definition of moving water impoundments is adopted as proposed.

8. Default Service Provider

We have addressed the role of default service providers (DSPs) in net metering provisions of the regulations. While we acknowledge that EDCs currently fill the role of DSP, the Public Utility Code does provide for an alternative supplier to supply default service upon Commission approval. Therefore, we proposed a definition for DSP that is consistent with the definition found in the Pennsylvania Public Utility Code at 66 Pa. C.S. § 2803.

a. Comments

Comments supporting the changes proposed in the NoPR to the definition of default service provider were received from PPL and FirstEnergy. PPL NoPR Comments at 7, PPL ANoFR Comments at 4, FirstEnergy NoPR Comments at 3. In its comments, FirstEnergy states that default service providers generally provide generation and transmission service. The transmission service included in the price to compare is market based transmission service. FirstEnergy proposes to add this clarification to the definition of default service provider in order to align the definition with those services actually provided by the DSP. FirstEnergy NoPR Comments at 3. PECO avers that the definition proposed should be replaced with a reference to the statutory definition

provided in the Pennsylvania Public Utility Code at 66 Pa.C.S. § 2803. PECO NoPR Comments at 4.

b. Disposition

We decline to adopt FirstEnergy's suggestion to add a reference to transmission service. The definition is not intended to identify all possible services provided by the DSP, but simply to inform what entities can be designated as the DSP and when they serve that role. We note that all DSPs must have a Commission approved default service plan that will identify what services they provide to specific rate classes and a process for determining and publicizing the price for such service. Regarding PECO's suggestion, we decline to simply reference the Public Utility Code section where the definition of DSP can be found. We find it appropriate to provide the definition in these regulations out of convenience for any interested party. Accordingly, we adopt the definition of DSP as proposed.

C. Net Metering: § 75.13. General Provisions

This section features several revisions related to who can qualify for net metering and the compensation they receive. In addition, we have addressed the role of DSPs in net metering and the compensation they provide. While we acknowledge that EDCs currently fill the role of DSP, the Public Utility Code does provide for an alternative supplier to supply default service upon Commission approval. The addition of DSPs to this section simply acknowledges this possibility and provides guidance and clarity regarding a DSP's role in providing net metering and compensation under net metering.

1. Section 75.13(a)

Currently, Section 75.13(a) requires EDCs to offer net metering to customer-generators and provides that EGSs may offer net metering to customer-generators under the terms and conditions set forth in agreements between the

EGS and the customer-generator taking service from the EGS. The current regulation is silent as to which customer-generators can net meter, other than that they must be using Tier I or Tier II alternative energy sources.

We proposed a provision for DSPs and a move of the EGS net metering role to subsection 75.13(b) and re-lettering of the remaining subsections. In our proposed new section (a), we require EDCs and DSPs to offer net metering to customer-generators that generate electricity on the customer-generator's side of the meter using Tier I or Tier II alternative energy sources, on a first come, first served basis, provided they meet certain conditions.

a. Independent Load

The first condition requires the customer-generator to have load, independent of the alternative energy system, behind the meter and point of interconnection of the alternative energy system. To be independent, the electric load must have a purpose other than to support the operation, maintenance or administration of the alternative energy system. This provision makes explicit what was previously implied in the AEPS Act and the regulations.

This requirement is implied in the AEPS Act definition of net metering where it states that net metering is the means of measuring the difference between the electricity supplied by an electric utility and the electricity generated by the customer-generator when any portion of the electricity generated by the alternative energy generating system is used to offset part or all of the customer-generator's requirements for electricity. If there is no independent load behind the meter and point of interconnection for the alternative energy system, by definition, the customer-generator has no requirement for electricity to offset. In addition, this requirement is implied in the current regulations, where it states that EDCs shall offer net metering to customer-generators that generate electricity on the customer-generator's side of the meter. Again, there would be no need

for a customer's electric meter if there was no independent demand for electricity. Furthermore, we note that both alternative and traditional electric generation facilities require electric service to start, operate and maintain those facilities. Thus, to preclude utilities, such as merchant generators, from qualifying for net metering, we require load independent of the generation facility. To do otherwise would be contrary to the definition of a customer-generator that only includes nonutility owners and operators of alternative energy systems.

i. Comments

Comments supporting the above mentioned revisions proposed in the NoPR were received by PPL, OSBA, SEF, FirstEnergy, Duquesne, and EAP. PPL NoPR Comments at 8-10, OSBA NoPR Comments at 2, SEF NoPR Comments at 2, FirstEnergy NoPR Comments at 5-6, Duquesne NoPR Comments at 4-5, EAP NoPR Comments at 4-5. PPL recommends that the Commission require that independent load must be permanent and present at the customer-generator service for a customer-generator to maintain net metering status. This would help avoid situations where merchant generators install temporary load solely for the purpose of being deemed eligible for net metering. Importantly, PPL notes that those alternative energy systems that do not meet the independent load requirement are not foreclosed from receiving value for the excess generation produced by their alternative energy systems. Indeed, these facilities already have the ability to sell the excess generation in the wholesale electric market in competition with other similarly situated merchant generators. This approach will avoid ratepayers being forced to subsidize these merchant generators, which, in turn will avoid higher rates for customers. PPL NoPR Comments at 9-10, PPL ANoFR Comments at 10-12.

Many commentators, such as Robin Alexander, Larry Moyer, Sunrise, Enviro-Organic Technologies, Inc., Granger and PSU submitted comments opposing the independent load requirement at the host meter. These commentators aver that it may not

be practicable to have generation located behind a meter with load and the change is contrary to "virtual net metering." PSU avers that the "behind the meter" and "independent load requirement" contravene with the definition in the AEPS Act. Robin Alexander NoPR Comments at 2-3, Larry Moyer Part A NoPR Comments at 3-5, Larry Moyer Part B NoPR Comments at 2, Larry Moyer ANoFR Comments at 2-4, Sunrise NoPR Comments in a letter dated 7/22/14, Enviro-Organic Technologies, Inc. NoPR Comments at 2, Granger NoPR Comments at 22-27, PSU NoPR Comments at 10-11, PSU ANoFR Comments at 11-15. Other commentators, such as RCM International LLC and PDMP, oppose the independent load requirement and request an exemption for farms. RCM International LLC NoPR Comments at 2, PDMP NoPR Comments at 3. The OCA suggests clarifying language so installations at new construction projects are not excluded. OCA NoPR Comments at 2.

The IRRC requests clarification on how the independent load requirement will be implemented for new construction that may incorporate an alternative energy system and would the owner be precluded from qualifying as a customer-generator because they do not have electric load at the time of the application to the EDC or DSP. IRRC NoPR Comments at 6.

The LWV strongly objects to preventing property owners from putting solar into their own field, on their own property unless they already use electricity there. LWV argues that the law allows a field to be used to generate electricity if it is less than two miles away and customers get full credit. The LWV believes that alternate energies need to be encouraged, supported and promoted and that the laws adequately do that. LWV ANoFR Comments in a letter dated 5/27/15.

ii. Disposition

The Commission analyzed and considered the many comments submitted by parties that oppose the proposed clarification requiring independent load. We, however,

disagree with the commentators that object to the independent load requirement. We find that independent load must be present and permanent for a customer-generator to obtain and maintain net metering status. Furthermore, we are convinced that the independent load requirement of the generation facility is critical in preventing utilities, such as merchant generators, from qualifying for net metering.

As discussed previously, a customer-generator must be a nonutility retail electric customer that has either a residential or other electric service location as a predicate to qualifying as a customer-generator. Without independent electric load, there would be no establishment of a retail electric customer at a residential or other electric service location. The interconnection would simply involve generation service.

Furthermore, the term net metering is defined as follows:

> The means of measuring the difference between the electricity supplied by an electric utility and the electricity generated by a customer-generator when any portion of the electricity generated by the alternative energy generating system is used to offset part or all of the customer-generator's requirements for electricity.

72 P.S. § 1648.2. As the customer-generator must be a retail electric customer with a residential or other service location, there must be a need for load at the customer-generator location to net against the generation from the customer-generator. Otherwise, it would simply be a generator, not a customer-generator.

This definition also requires that the customer-generator must have a requirement for electricity. The first sentence in the definition of net metering states that it is "[t]he means of measuring the difference between the electricity supplied by an electric utility and the electricity generated by a customer-generator when any portion of the electricity generated … is used to offset part or all of the customer-generator's requirements for electricity." The "electricity supplied by an electric utility" is for the "independent load." The second part of this sentence refers to offsetting "part or all of the

customer-generator's requirements for electricity," depends upon the existence of independent load, for if there is no independent load, there is no requirement for electricity that would be offset or netted against. Again, without independent load at the customer-generator location, there would be no requirement for electricity to net against the generation produced by the customer-generator.

Several commentators conflate the term "virtual net metering" with the term "virtual meter aggregation" in suggesting that no independent load is required at the point of interconnection of the customer-generator. Initially we note that it is these commentators, not the Commission, that are creating net metering terms and conditions that are not in the AEPS Act. The term "virtual net metering" is neither found nor defined in either the AEPS Act or the Public Utility Code. This term implies that the electric load and the generator do not have to be co-located for net metering.

We also point to the language in the AEPS Act that requires the Commission to develop technical and net metering interconnection rules as further evidence of the General Assembly's intent that independent load is required for all customer-generator interconnections. Specifically, Section 5 of the AEPS Act states the following:

> The commission shall develop technical and net metering interconnection rules for customer-generators intending to operate renewable *onsite generators* in parallel with the electric utility grid, consistent with rules defined in other states within the service region of the regional transmission organization that manages the transmission system in any part of this Commonwealth.

73 P.S. § 1648.5 (emphasis added). This requirement specifically references onsite generators in relation to net metering interconnection for customer-generators. The reference to onsite generation demonstrates the clear intent by the General Assembly that customer-generators must be behind the meter generation. What many of the commentators refer to as virtual net metering, which again is neither referenced in nor defined in the AEPS Act, involves offsite generation that is connected to no load and is

simply connected directly to the grid. Had the General Assembly intended customer-generators to virtually net meter offsite generation, they would have simply stated that the Commission shall develop technical and net metering interconnection rules for customer-generators intending to operate renewable generators in parallel with the electric utility grid. But that is not what the General Assembly enacted.

In contrast, the AEPS Act does permit net metering for "[v]irtual meter aggregation on properties owned or leased and operated by a customer-generator and located within two miles of the boundaries of the customer-generator's property and within a single electric distribution company's service territory...." 73 P.S. § 1648.2 (definition for Net Metering). This term references the aggregation of two or more electric service meter locations virtually, as opposed to physically connecting all meter service locations, operated by one customer. Such customers may include a farm or commercial business with multiple dislocated barns or buildings that have separate electric service locations that are under one account holder. In this scenario, the operator may install an alternative energy system at one of the two or more service locations and net meter the generation from that system against the load requirements at all of the service locations, provided they are within two miles of each other and are within the same EDC service territory. To interpret this as being equivalent to virtual net metering would be creating ambiguity where none exists in the language contained in the AEPS Act. We also note that interpreting virtual meter aggregation as virtual net metering would permit a person to install an alternative energy system with a nameplate capacity greater than 50 kW and virtually net meter their residential service, circumventing the statutory limit contained in the AEPS Act. This interpretation would lead to an absurd result that is directly contrary to the intent of the General Assembly. *See Commonwealth v. McCoy*, 962 A.2d 1160, 1168 (Pa. 2009) (the interpretation that gives effect to all of the statute's phrases and does not lead to an absurd result must prevail).

We further note that the existing regulations at 52 Pa. Code § 75.13(c) explicitly require load at the point of interconnection for the generator. Section 75.13(c) states in part the following:

> For customer-generators involved in virtual meter aggregation programs, a credit shall be applied first to the meter through which the generating facility supplies electricity to the distribution system, then through the remaining meters for the customer-generator's account equally at each meter's designated rate.

52 Pa. Code § 75.13(c). There would be no ability to apply a credit at the meter through which the generating facility supplies electricity to the distribution system if there was no electric load requirement at that meter. This demonstrates that the Commission continues to be consistent and has added this explicit language simply to add precision to the regulations, not to create a new requirement as some have asserted.

Regarding comments, including those provided by IRRC, related to independent load at new construction projects, we believe that the proposed regulation does not exclude the installation of alternative energy at a new construction site. Once the new construction is built, operational and receiving retail electric service and the alternative energy system is operating, net metering would begin at that time. If the alternative energy system is operating before the new construction is built, operational and receiving retail electric load, there is nothing to net meter, so net metering would not apply. In such a scenario, the owner of the alternative energy system could sell the power from the facility at an avoided cost of wholesale power in accordance with federal and state regulations until the new construction is operational.

Finally, regarding the permanency of the independent load at the customer-generator location, we find that no additional language is needed in the regulations. To qualify for net metering and to be a customer-generator, there must be independent load. If there is no independent load, then the alternative energy system would simply be a generator and no longer qualify for net metering at that point in time.

For these reasons, we adopt the requirement for independent load as proposed in the NoPR.

b. Nonutility

The second condition requires that the owner or operator of the alternative energy system may not be a utility. As noted previously, the AEPS Act defines a customer-generator as a nonutility owner or operator of a net metered distributed generation system. Again, this condition makes explicit in the rule what is required by the AEPS Act.

i. Comments

Comments supporting the above mentioned proposed condition were received from Duquesne, PPL and FirstEnergy. Duquesne NoPR Comments at 3, PPL NoPR Comments at 8, FirstEnergy NoPR Comments at 5.

Granger, Crayola, DOJ, Tetra Tech, Inc., PSU and numerous other stakeholders filed opposing comments. Granger NoPR comments at 17-20, Crayola NoPR Comments at 1-2, DOJ NoPR Comments at 1-2, Tetra Tech, Inc. NoPR Comments at 2, PSU NoPR Comments at 3-7.

Oregon Dairy, Solare America and LCSWA, feel that all renewable projects involving "parties in the business of providing electric service" (merchant generators) will be disqualified from the net metering program. Oregon Dairy NoPR Comments at 2, LCSWA NoPR Comments at 1, Solare America NoPR Comments at 1.

In its comments to the ANoFR, the National Milk Producers Federation and Land O'Lakes suggest inserting the phrase "which is primarily in the business of providing electric power to the grid or other users" to the section to provide clarity for dairy farms.

National Milk Producers Federation ANoFR Comments at 2, Land O'Lakes ANoFR Comments at 1.

DCIDA states that it has concern it will be unfairly categorized as a utility. The AEPS Act provides that net metering is available to "non-utility" energy generators. But, the Commission is engaged in efforts to define certain "non-utility" energy generators as "utilities" for purposes of the AEPS Act so that they are not eligible to net meter. DCIDA expressed concern for potential confusion because the Commission continues to propose a definition that departs from statutory definitions, published guidelines and established precedent to create the proposed definition. DCIDA ANoFR Comments at 5-8.

ii. Disposition

The AEPS Act definition for customer-generator requires that the owner or operator of the net metered distributed generation system be a nonutility. Accordingly, we adopt the condition as proposed in the NoPR for § 75.13(a)(2).

c. Size Limit

The third condition proposed in the NoPR required that the alternative energy system be sized to generate no more than 110% of the customer-generator's annual electric consumption at the interconnection meter and all qualifying virtual meter aggregation locations. The AEPS Act sets maximum nameplate capacity limits for customer-generators by customer class, with 50 kilowatts for residential service and three megawatts at other service locations and up to five megawatts under certain circumstances. To this point, the Commission has not set more restrictive size limitations on customer-generators, except in a policy statement permitting net metering of third-party owned and operated systems. *See Net Metering – Use of Third Party Operators*, Final Order at Docket No. M-2011-2249441 (entered March 29, 2012). In that order, the Commission set the 110% size limit as a reasonable way to limit the possibility of merchant generators posing as customer-generators. The Commission

further noted that the majority of comments supported the limit as a reasonable and balanced approach to support the intent of the AEPS Act and limiting the potential for merchant generators to use net metering to circumvent the wholesale electric market and gain excessive retail rate subsidies at retail customer expense. *See Net Metering – Use of Third Party Operators*, Final Order at 8.

While we declined to extend the application of the 110% limitation of systems owned or operated by a customer-generator in the policy statement,[7] we proposed that this same reasonable and balanced approach be applied to all new customer-generators as it more appropriately supports the intent of the AEPS Act. Again, we point out that the AEPS Act defines net metering as a means for a customer-generator to offset part or all of the customer-generator's requirements for electricity. In addition, it ensures that the

[7] *See Net Metering – Use of Third Party Operators*, Final Order at 9.

customer-generator is not acting like a utility or merchant generator, receiving excessive retail rate subsidies from other retail rate customers.

As we adopted in the policy statement, the 110% limit was a design limit to be based on historical or estimated annual system output and customer usage, both of which are affected by weather that is beyond the control of the customer.[8] It is not to be used as a hard kilowatt-hour cap on the customer-generator's annual system output. We believe that this approach appropriately captures the intent of the AEPS Act regarding net metering and is consistent with how net metering is treated in other states.[9]

i. Comments

Comments supporting the above mentioned condition were received from Duquesne, OSBA, PPL, PECO, FirstEnergy and EAP. Duquesne NoPR Comments at 6-7, OSBA NoPR Comments at 3, PPL NoPR Comments at 10-13, PECO NoPR Comments at 5-8, FirstEnergy NoPR Comments at 5, EAP NoPR Comments at 4-5.

Many stakeholders filed comments opposing the system size restrictions for different reasons, such as lack of clarity and difficulty to determine the usage which is subject to change (weather, changes in occupancy, new construction, etc.). Other commentators stated that the size limitation conflicts with the language of the AEPS Act and the legislative intent.

In its comments, the IRRC states that commentators have questioned the Commission's statutory authority for this provision and also how it will be implemented.

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[8] *Id.* at 10.

[9] *See*, 26 Del. Admin. Code 3001-8.6.2: "The customer-Generator Facility is designed to produce no more than 110% of the Customer's aggregate electrical consumption…." *See also*, N.J.A.C. 14:8-4.3(a): EDCs "shall offer net metering . . . provided that the generating capacity of the customer-generator's facility does not exceed the amount of electricity supplied . . . to the customer over an historical 12-month period . . . ." And, N.J.A.C. 14:8-7.3(a)(2): "The generating capacity of the eligible customer's system does not exceed the combined metered annual energy usage of the customer's qualified facilities."

The IRRC asks the Commission to provide a citation to specific statutory language that would allow for the limitation being proposed under this subsection. IRRC NoPR Comments at 6.

Several parties filed comments requesting an exemption from the 110% size limitation for farm based alternative energy/anaerobic digester systems. Others felt that the proposed provisions were silent regarding the treatment of existing facilities that exceed the proposed limitation and suggested that existing facilities should be "grandfathered" and that the size limitation only be applied to future projects. As a result, the Commission proposed the following changes and modifications in the ANoFR under Section 75.13(a)(3):

1. The size limitation for alternative energy systems must be sized to generate no more than 200% of the customer-generator's annual electric consumption at the interconnection meter location when combined with all qualifying virtual meter aggregation locations as of the date of the interconnection application.

2. For existing service location accounts, annual electric consumption shall be based on electric usage data from any 12 consecutive month period occurring within 60 months prior to submission of the customer-generator's interconnection request.

3. For new service location accounts, annual electric consumption shall be based on the building type, size and anticipated usage of electric equipment and fixtures planned for the new service location.

4. The 200% of the customer-generator's annual electric consumption limitation applies to any interconnection application for a new alternative energy system

or expansion of an existing alternative energy system submitted 180 days after the effective date of this rulemaking.

5. The 200% of the customer-generator's annual electric consumption limitation does not apply to alternative energy systems when the Department provides confirmation to the Commission that a customer-generator's alternative energy system is used to comply with the Department's Pennsylvania Chesapeake Watershed Implementation Plan in compliance with section 303 of the Federal Clean Water Act at 33 USC § 1313 (relating to water quality standards and implementation plans) or is an element of a farm's approved nutrient management plan in compliance with the Nutrient Management Act at 3 PA.C.S. §§ 501, *et seq.* (relating to nutrient management and odor management).

Comments opposing the 200% size limitation proposed in the ANoFR were received from Duquesne, PPL, FirstEnergy, PECO, OSBA, and EAP. These commentators preferred the initially proposed size limitation of 110% for customer-generators. In its comments, Duquesne supports an alternative energy size limitation; however, it believes that a 200% cap is not in line with the spirit of the AEPS Act and prefers a size limitation consistent with the Commission's initially proposed 110% cap. Duquesne asserts that the AEPS Act was enacted to encourage residential customers to offset a portion or all of their electric usage. As a 110% limitation is closer to the customer's actual usage, such a limitation decreases the ability of a customer-generator from obtaining excessive rate subsidies at the expense of other retail customers. Duquesne requests that the Commission utilize a 110% size limitation and clarify whether a credit should be received only up to the size limitation set by the Commission. Duquesne ANoFR Comments at 2-3.

PPL believes that the 110% size limitation initially proposed is more consistent with the intent of the net metering provision of the AEPS Act. PPL, however, suggests

that if the 200% limitation is adopted, EDC's may have to install additional equipment to accommodate the larger sized alternative energy systems, which in turn, would increase costs to electric customers. Although PPL continues to support the 110% size limitation, it recognizes that the proposed 200% size limitation is a significant improvement over the current regulatory scheme with no cap. PPL asserts that a limit on the size of alternative energy systems for purposes of net metering is a reasonable and balanced approach to supporting the intent of the AEPS Act by limiting the potential for merchant generators to use net metering as a way to circumvent the wholesale electric market and realize retail rate subsidies at the expense of retail customers. PPL ANoFR Comments at 12-14.

FirstEnergy supports the initially proposed 110% size limit of an alternative energy system, and feels that an increase to 200% over the previous proposal's limit of 110% of customer-generator's annual electric consumption should be rejected. FirstEnergy notes that net metering customers in Pennsylvania are paid an amount for excess generation kWh that is equal to the Price to Compare, which includes certain transmission costs. FirstEnergy asserts that allowing for a 200% limit in Pennsylvania will result in a higher level of cross-subsidization whereby default service customers, who currently pay net metering cost as part of default service charges, would be required to pay an increased amount. FirstEnergy ANoFR Comments at 2-3.

PECO believes that the originally proposed 110% rule is fundamentally sound for new alternative energy systems because it is consistent with the intent of the AEPS Act, which defines net metering as a means to primarily offset part or all of the customer-generator's requirements for electricity. PECO states that the 110% rule also provides more reasonable protections to customers and guarantees protections that the proposed 200% rule cannot, such as preventing system oversizing, avoidance of merchant generators posing as customer-generators, establishment of clear jurisdictional boundaries between the Federal Energy Regulatory Commission (FERC) and the Commission, and containment of cost shifting. PECO notes that it provided seven

examples of states with aggressive renewable goals in the NoPR, with only one state (Maryland) using a 200% rule. Accordingly, PECO recommends that the Commission adopt the initially proposed 110% size limit. PECO ANoFR Comments at 4-6.

OSBA and EAP also oppose the 200% size limitation increase. OSBA submits that the Commission has not fully considered the impact of excess net metering generation on default service rates for small businesses and recommends staying with the more reasonable 110% limitation. OSBA ANoFR Comments at 1-2. EAP suggests a targeted exception for agricultural customer-generators as opposed to raising the generation cap in general. If the Commission wishes to maintain consistency with "how net metering is treated in other states," the 200% limit appears excessive and not in keeping with the majority of the states. EAP ANoFR Comments at 3-4.

Many parties feel that the 200% size limitation is in conflict with the AEPS Act and legislative intent. Sunrise notes that the proposed rule would constrain the size of renewable energy systems by enforcing a size limitation established as a percentage of onsite load. Sunrise asserts that system size limits are defined in the Act and the proposed limitations are in conflict. Sunrise ANoFR Comments in a letter dated 5/2/15.

DCIDA and Granger state that the 200% limitation is beyond the scope of the Commission's statutory authority and the intent of the General Assembly. Granger opines that consumption limits would materially harm landfill gas projects. DCIDA ANoFR Comments at 9-10. Granger ANoFR Comments at 9-14.

DEP states that a further limit on the ability to benefit from net metering is not authorized by law. DEP ANoFR Comments at 2. PWIA states that the rulemaking is unlawful because it disregards and contradicts the plain language of Act 213. PWIA asserts that the Act does not restrict consumption as a percentage of capacity, nor does it authorize the Commission to impose such restrictions. PWIA ANoFR Comments at 1-2.

Many other stakeholders, such as the Farm Bureau, Ar-Joy Farms LLC, and Herb Kreider believe that the proposed 200% size limitation will place the farmers' ability to augment their systems and still qualify for net metering in jeopardy. The Farm Bureau believes that the farmers' future ability to viably utilize on-farm generation systems to meet legal environmental requirements will be seriously compromised, even under the revised standards. The Farm Bureau asserts that the proposal to increase the limitation from 110% to 200%, while helpful, does not sufficiently take into account current and future needs farm families will have. The Farm Bureau urges the Commission to reconsider its final regulation and include language that provides for an outright farm exemption from the restriction in capacity. Farm Bureau ANoFR Comments at 2-4. Ar-Joy Farms LLC and Herb Kreider disagree with the 200% size limitation on methane digesters. Ar-Joy Farms LLC ANoFR Comments at 2, Herb Kreider ANoFR Comments in a letter dated 5/26/15.

Many more comments opposing the 200% size limitation were received from other stakeholders, such as the Joint Commentators, MAREA et al, SUNWPA, Citizen Power and OCA. The Joint Commentators opine that the Commission's authority to impose a 200% of annual load limitation remains in question and the benefits of such a limitation have not been shown to outweigh the costs. The Joint Commentators assert that providing the agriculture exclusion shows the lack of authority and necessity for the limit. Furthermore, the Joint Commentators argue that the Commission has not provided a sufficient cost-based analysis of the need for the cap and that the approach is not tailored to solve an actual problem. Joint Commentators ANoFR Comments at 6-10. MAREA et al urges the Commission to withdraw changes that would add a new generation limit on system size. MAREA et al ANoFR Comments at 1.

SUNWPA opposes the 200% size limitation proposed for solar energy systems because most solar systems are sized to meet existing demand. Its extensive experience

with solar customers shows that it is extremely rare that a customer will size a system to overproduce. Placing a limit on production is a disincentive for energy efficiency and increasing the amount of solar to the grid should be encouraged in order to address climate change and to lessen impacts of air pollution that will help Pennsylvania meet the impending EPA Clean Power Plan regulations. SUNWPA ANoFR Comments at 1-2.

Citizen Power believes that the proposed 200% size limitation, as applied to residential customers, is unnecessary. Citizen Power recognizes that the purpose of the 200% limit is to exclude generation utilities and merchant generators from obtaining customer-generator status. Citizen Power supports the elimination of the 200% size limit for residential customers, at least until there is some evidence that such a restriction is necessary. Citizen Power ANoFR Comments at 2-3.

In its comments, OCA states that it recognizes the need to strike a balance between encouraging the development of alternative energy systems while preventing possible harm to ratepayers. The OCA suggests that the Commission may wish to consider whether a limitation for residential customers is necessary, asserting that there is not a significant concern with residential customers becoming a merchant generator. The OCA submits that while the 200% limit for residential customers is an improvement from the initial 110% proposal, it may still unnecessarily limit the expansion of residential solar installations. The OCA submits that it may be inefficient to place a size limitation in addition to the 50 kW capacity limit on residential solar installations. OCA ANoFR Comments at 3-4.

ii. Disposition

Based on IRRC's June 2, 2016 Order and the necessity of having the remaining provisions of this final rulemaking promulgated, we will remove this limitation and the associated subsections and renumber the remaining subsections.

d. Historical Usage

i. Existing Service Locations

Comments opposing the 60 month timeframe to calculate the annual electric consumption for existing service locations were received from PECO and EAP. PECO believes that such an approach allows customers to "cherry pick" the most advantageous 12-months during the 5-year period. PECO is concerned that the proposed 60 month period may be excessive because it could allow customers to set their system sizes with outdated information. PECO recommends an approach which strikes an appropriate balance, such as using a consecutive 12 month period that occurs within the 24 months before the interconnection request is filed. PECO ANoFR Comments at 8.

EAP requests that the Commission reconsider its proposal to allow a customer with existing service locations to apply any 12 consecutive month period of electric usage data occurring within the last 60 months to determine its future annual electric consumption for purposes of net metering. EAP asserts that this window provides an excessive amount of discretion to the customer-generator to pick the highest-usage months. EAP recommends reducing this window to 24 or 36 months to account for any outlier usage or weather-dependent usage years. EAP ANoFR Comments at 4.

ii. Disposition

Based on IRRC's June 2, 2016 Order and the necessity of having the remaining provisions of this final rulemaking promulgated, we will remove this limitation and the associated subsections and renumber the remaining subsections.

iii. New Service Locations

PES and PECO submitted comments concerning the annual electric consumption estimates for new service locations. PES asserts that there should be clarity regarding what is acceptable documentation for expected additional electrical load of a building, as in the case of new construction, or a building expansion. PES recommends additional

clarity regarding the standard measurement for calculating the annual building consumption. PES ANoFR Comments at 2.

PECO supports the annual consumption estimates for new locations based on building type, size and anticipated usage of electric equipment and fixtures for commercial/industrial customers due to the high degree of variability in the way businesses operate and use energy. For residential customers, PECO believes that there is less variability and as such the annual consumption estimate should be based on the size (square footage) and heating source of the property. PECO recommends that the proposed regulation be revised to specify that: (1) the consumption estimate for commercial/industrial customers be based on building type, size and anticipated usage or electric equipment and fixtures planned for the new service location; and (2) the consumption estimate for residential customers be based on the home size and the primary heating source. Furthermore, PECO recommends that the Commission establish estimating units, such as kWh per square foot, based on the type of heating source in order to estimate the annual usage for purposes of setting the appropriate system size limit. PECO ANoFR Comments at 8-9.

iv. Disposition

Based on IRRC's June 2, 2016 Order and the necessity of having the remaining provisions of this final rulemaking promulgated, we will remove this limitation and the associated subsections and renumber the remaining subsections.

e. Application Of Rule To New Systems

Comments relative to the 200% size limitation that applies to any interconnection application for a new alternative energy system or expansion of an existing alternative energy system submitted 180 days after the effective date of this rulemaking were received from PECO and PPL. In its comments, PECO states that the ANoFR carved out an exception to the system size limitation for existing systems and those currently under

development. PECO believes that the proposed exception is reasonable and should be adopted. PECO ANoFR Comments at 6-7.

PPL recommends that any alternative energy systems that have been approved for net metering by an EDC should be exempt from the new regulations proposed in the ANoFR and permitted to remain on net metering. PPL, however, requests that the Commission reconsider its position on grandfathering facilities that have not been approved for net metering. PPL submits that grandfathering customers that apply within 180 days from the date of the revised regulations become final will create a rush of applications from prospective developers to beat the revised regulations deadline. PPL ANoFR Comments at 15-16.

i. Disposition

Based on IRRC's June 2, 2016 Order and the necessity of having the remaining provisions of this final rulemaking promulgated, we will remove this limitation and the associated subsections and renumber the remaining subsections.

f. Exception To 200% Limit

Several comments were received in regards to the exception to the 200% size limitation for alternative energy systems used to comply with the Department's Pennsylvania Chesapeake Watershed Implementation Plan or as an integral element for compliance with the Nutrient Management Act. TeamAg Inc., State Representative Robert W. Godshall, Brubaker Farms, DEP, and several other parties stated that the use of the word *"may"* leaves room for doubt. The commentators requested that the word *"may"* be replaced with *"shall"* in order to improve clarity. These commentators also indicated other suggested changes to the language in this paragraph including replacing *"is used to comply"* with *"complies,"* removing the word *"integral"* and replacing *"for compliance"* with *"of a farm's approved Nutrient Management Plan in compliance."* Team Ag Inc. ANoFR Comments at 1, State Representative Robert W. Godshall ANoFR

Comments in a letter dated 5/26/15, Brubaker Farms ANoFR Comments in a letter dated 5/25/15 at 2-3, DEP ANoFR Comments at 3.

Many stakeholders, such as PSG, the Milk Producers, and Land O'Lakes feel that the Commission should recognize the benefits of farm anaerobic digester installations and exempt them from any negative changes to the net metering rules. PSG ANoFR Comments in a letter dated 5/21/15, the Milk Producers ANoFR Comments at 2, Land O'Lakes ANoFR Comments at 2.

In its comments, PECO agrees that the proposed regulations should not hinder the use of anaerobic digester technologies to advance the Chesapeake Bay restoration plan. PECO, however, believes that the Commission should consider exploring DEP's proposal to implement alternative limits that more accurately reflect actual energy production by farms with digesters. PECO requests that the Commission establish a working group to explore the possibility of adopting alternative limits for anaerobic digester technologies. PECO ANoFR Comments at 7.

Arlin Benner submitted comments stating that he is relieved to see that the Commission is seeking a way to prevent farm anaerobic digesters from being lumped in with all the entities that are actually in the business of generating energy. Arlin Benner suggests that no subjective confirmation responsibility be placed in the hands of the DEP, and that DEP's confirmation be based on the permitting and nutrient management requirements already in place for that farm. Arlin Benner ANoFR Comments in a letter dated 5/23/16.

In its comments, the OSBA states that the Commission's order exacerbates the problem faced by default service customers by proposing to exempt certain manure to energy generators from the excess generation limitation entirely. The OSBA has reviewed the comments and reports from the DEP, PDA and the Chesapeake Bay Commission and can find no quantitative assessment of the economic impact of a

restriction on excess net metering generation on the economics of these operations. The OSBA is concerned that the Commission is adopting an exemption based on unsubstantiated claims and that the proposed policy will have some vague, unspecified impact on one particular group of customers. As no evidence has been advanced regarding the impact, the OSBA suggests that the exemption apply only to those customers who can demonstrate that it is economically necessary for the manure to energy generation option to be viable. OSBA ANoFR Comments at 2-3.

i. Disposition

Based on IRRC's June 2, 2016 Order and the necessity of having the remaining provisions of this final rulemaking promulgated, we will remove this limitation and the associated subsections and renumber the remaining subsections.

g. Residential Service Limit

The fourth, fifth and sixth conditions proposed in the NoPR under section § 75.13(a) simply require that the customer-generator's alternative energy system cannot exceed the nameplate capacity limits, by rate class, as set forth in the AEPS Act. As noted above, these are maximum limits on the size of net metered systems. We recognize that even with the 200 percent of annual electric consumption size limitation, some systems may be able to exceed the statutory maximum size limits due to large annual electric demand. Accordingly, we have included these conditions to make it clear that customer-generator systems cannot exceed the statutory nameplate capacity limits.

Stakeholders did not comment on the proposed changes in the NoPR regarding the fifth and sixth conditions. However, several parties provided comments to the ANoFR regarding the fourth condition. In this rulemaking, Section § 75.13(a)(4) refers to limiting the nameplate capacity for residential service locations to 50 kilowatts.

TeamAg Inc., State Representative Robert W. Godshall, Brubaker Farms, PDA, PDMP and several other parties stated that many dairy farms in Pennsylvania receive their electricity as residential service and these farms with residential service accounts would be excluded from the benefits of net metering with this current language. Commentators suggested adding *"unless the service is for a normal agricultural operation as defined in the Pennsylvania Right to Farm Act"* to the end of section § 75.13(a)(4). TeamAg Inc. ANoFR Comments at 2, State Representative Robert W. Godshall ANoFR Comments in a letter dated 5/26/15, Brubaker Farms ANoFR Comments at 3, PDA ANoFR Comments at 2, PDMP ANoFR Comments at 2.

Oak Hill Farms stated that they operate a 40 kilowatt anaerobic digester on a residential rate with PPL. If they accepted the maximum amount of food waste allowed by DEP, electric production would double to roughly 64 to 80 kilowatts per hour. Oak Hill Farms asserts that limiting farms with residential service to 50 kilowatts is not a policy that will encourage smaller farms to build digester projects. Oak Hill Farms ANoFR Comments at 1.

i. Disposition

As it is currently written in the AEPS Act, a customer-generator system cannot exceed the nameplate capacity limit of 50 kilowatts at residential service locations. The Commission does not have the authority to set a limit greater than the statutory limit. We note however, that adding a larger anaerobic digester will typically convert the service from a residential service rate to a non-residential service rate, thus increasing the statutory size limitation to three megawatts and resolving the concerns raised. We will, however, renumber this subsection to § 75.13(a)(3) as we are removing the proposed subsection 75.13(a)(3) in response to IRRC's June 2, 2016 Order. Accordingly, we adopt the language in the new Section § 75.13(a)(3) as proposed in the NoPR and subsequently set forth in the ANoFR.

h. Other Service Location Limits

In the ANoFR, Sections § 75.13(a)(5) and (6) were combined. The conditions refer to limiting the nameplate capacity for other customer service locations to three megawatts, except when the alternative energy system has a nameplate capacity not larger than five megawatts and meets the conditions in section § 75.16 (relating to large customer-generators). No comments were received. Accordingly, we adopt the language in Section § 75.13(a)(5) and (6) as proposed in the ANoFR. We, however, have renumbered this subsection to § 75.13(a)(4) as we are removing the proposed subsection 75.13(a)(3) in response to IRRC's June 2, 2016 Order.

i. Commission Approval Of 500 Kilowatt Systems

Finally, in the seventh condition proposed in the NoPR under section 75.13(a), we imposed a requirement that all alternative energy systems with a nameplate capacity of 500 kilowatts or greater obtain Commission approval for net metering in accordance with a process we proposed. We noted that this approval process will ensure uniform application of the net metering rules throughout the Commonwealth. We noted that the limiting of Commission review to systems equal to or greater than 500 kilowatts appropriately balances the need for consistent application with the additional administrative efforts and costs such a review imposes. We further noted that customer-generators who have the capital to invest in these large and more costly systems will have the resources to comply with this review process. In addition, we noted that the total number of such systems applying for net metering in a year will remain relatively small such that it will not burden the EDCs or the Commission.

Comments supporting the requirement that all alternative energy systems with a nameplate capacity of 500 kilowatts or greater obtain Commission approval were received from Duquesne and PPL. Duquesne NoPR Comments at 3-4, PPL NoPR Comments at 13. PPL states that unlike smaller-sized alternative energy systems, which are much easier for the EDC to determine whether the customer qualifies as a

customer-generator eligible for net metering, PPL believes that alternative energy systems sized at 500 kilowatts and above often require significant resources and time to determine whether they qualify as a customer-generator or are a merchant generator. Furthermore, PPL believes that the Commission's review will ensure that these larger-sized alternative energy systems are treated uniformly and consistently throughout the Commonwealth, which will be a significant benefit to the owners of larger-sized alternative energy systems operating in multiple service territories. Finally, PPL believes that this condition will help ensure that customer-generators whose systems are above three megawatts properly make their systems available to operate in parallel with the electric utility during grid emergencies. PPL NoPR Comments at 13.

Comments opposing the requirement were received from, DCIDA, LVA, and others. DCIDA NoPR Comments at 13-14, LVA NoPR Comments at 1. DCIDA avers that the need for this costly burden is not clear. DCIDA states that the Commission expresses the need for uniform application of the net metering rules throughout the Commonwealth, but notes that it will only review and approve a relatively small number of such applications. DCIDA asserts that nothing explains why review and approval of only the largest alternative energy systems will ensure that the rules are uniformly applied to all customer-generators and alternative energy systems in the Commonwealth. That being said, DCIDA states that there is little for the Commission to actually approve. DCIDA asserts that in the normal course of action, the Commission does not review applications to begin service and there is nothing in the Act which suggests that the Commission should be reviewing the applications. DCIDA also asserts that there is simply no basis for the Commission to deny net metering to a customer-generator and alternative energy system that satisfies the statutory eligibility criteria. DCIDA argues that under the AEPS Act and the Public Utility Code, the Commission's role is to ensure that the EDC does not violate the customer-generators' statutory right to use net metering and not to grant or deny the statutory right of net metering to any customer-generator. DCIDA NoPR comments at 13-14.

In its comments, the IRRC notes that the Act sets forth criteria for alternative energy systems eligibility, but it does not require approval by the Commission. The IRRC requests clarification on what is the Commission's statutory authority for this provision as it relates to systems of this size. IRRC NoPR Comments at 6.

The seventh condition proposed in the NoPR under section 75.13(a), is listed as the sixth condition in the ANoFR. Only minor language changes were proposed in the ANoFR.

Comments to the ANoFR supporting Commission approval to net meter for all alternative energy systems with a nameplate capacity of 500 kilowatts or greater were received from PECO and EAP. PECO ANoFR Comments at 9-10, EAP ANoFR Comments at 4-5.

i. Disposition

In response to DCIDA comments, the Commission finds that this approval process ensures uniform and consistent application of the net metering rules throughout the Commonwealth and that administrative efforts and costs will be minimal due to the small number of such systems applying for net metering in a year. We stress that the Commission's review is simply to ensure that those entities that claim to meet the definition of customer-generator do in fact meet that definition, as expressed in the AEPS Act and the Commission's regulations. In addition, the Commission's review will ensure that the virtual meter aggregation provisions in the AEPS Act and the Commission's regulations are complied with.

In response to IRRC's request for clarification of the Commission's authority to review these net metering applications, and DCIDA's assertion that the Commission has no such authority, we point out that, as previously stated, the AEPS Act specifically gave

this Commission the responsibility to carry out the responsibilities delineated within the AEPS Act. *See* 73 P.S. § 1648.7. Net metering is established, defined and delineated in the AEPS Act and is one of many items that the Commission has the responsibility, given by the General Assembly, to carry out. Furthermore, the AEPS Act specifically required the Commission to "develop technical and net metering interconnection rules for customer-generators intending to operate renewable onsite generators in parallel with the electric utility grid…." 73 P.S. § 1648.5.

Significantly, net metering involves the rate that net metering customer-generators receive for not only the demand for energy they offset and net out each month, but the rate for any excess remaining at the end of the year, which is paid for by other customers. As we noted above, the establishment of such rates and the public utility tariffs that not only contain these rates, but also the net metering and interconnection service provisions, falls squarely within the Commission's authority pursuant to the Public Utility Code. *See* 66 Pa.C.S. §§ 1301-1318, 2807. The Commission's authority is further demonstrated by its promulgation of the current net metering rules. *See* 52 Pa. Code §§ 75.11-75.15, 75.21, 75.22, 75.31-75.40, 75.51. Indeed, based on both the AEPS Act and the Public Utility Code, the Commission is the only agency given responsibility to carry out and enforce the net metering provisions. For these reasons, language proposed in Section 75.13(a)(6) referencing Commission approval to net meter for all alternative energy systems with a nameplate capacity of 500 kilowatts or greater is adopted as proposed in the ANoFR. We, however, have renumbered this subsection to § 75.13(a)(5) as we are removing the proposed subsection 75.13(a)(3) in response to IRRC's June 2, 2016 Order.

2. Section 75.13(b)

As noted above, we moved the reference to EGSs offering net metering to subsection (b) and re-lettered the remaining subsections. In addition, we added the phrase "or as directed by the Commission" to this subsection. This phrase is intended to make it clear that the Commission has the authority to direct EGSs to offer net metering

in certain circumstances. In particular, the Commission would have the authority to direct EGSs to offer net metering if the EGSs are acting in the role of default service provider. This provides consistent and clear guidance along with the addition of references to DSPs added to these rules.

Comments supporting the clarification to this section proposed in the NoPR and ANoFR were received from PPL. PPL NoPR Comments at 14, PPL ANoFR Comments at 16-17. No opposing comments were received to Section 75.13(b). Accordingly, we adopt the proposed language clarifying that the Commission has the authority to direct EGSs to offer net metering in certain circumstances. In particular, the Commission would have the authority to direct EGSs to offer net metering if the EGSs are acting in the role of default service provider.

3. Section 75.13(c)

No language changes were proposed in the NoPR to previous subsection (b), re-lettered as subsection (c). Nevertheless, comments were received from RESA suggesting that specific operational protocols be added to the language. RESA recommends adding that the tariff shall require that the EDC's electronic data interchange transactions convey to the customer's EGS, in a timely manner, a net metered customer's actual net consumption information. RESA suggests that the tariff shall also require that electronic data interchange transactions identify all net metered customers. In addition, RESA suggests that each EDC's wholesale settlement reporting transactions for net metered customers reflect the customer's actual net consumption information. RESA states that inclusion of these specific operational protocols is important to ensure that EGSs wishing to offer net metering to their customers have timely and necessary access to information about the customer to facilitate net metering. RESA NoPR Comments at 2-3.

In response to RESA's comments, the Commission finds that this suggestion is beyond the scope of the current rulemaking and requires further investigation and review. Accordingly, the Commission declines to adopt RESA's proposal.

4. Section 75.13(d)

Formerly subsection (c), subsection (d) is revised to include DSP, add a hyphen between the words "customer" and "generator" and to provide clarity on how excess generation in one billing period is to be treated in subsequent billing periods. These changes are not intended to change how net metering has been implemented; we are simply providing clarity so the regulation accurately reflects the Commission's intent and actual practice.

a. Comments

Comments supporting the clarification to this section proposed in the NoPR were received from PPL and FirstEnergy. FirstEnergy, however, requests modifications to the language. PPL NoPR Comments at 14, FirstEnergy NoPR Comments at 6. In its comments, FirstEnergy states that given the statutory possibility of a non-EDC serving as a DSP, it makes sense to add "DSP" to this section of the proposed regulation. FirstEnergy, however, asserts that the language as drafted is not entirely clear as to the obligations of the EDC in contrast to the obligations of the DSP. Specifically, FirstEnergy avers that a question remains as to which of those entities would be responsible for providing what specific credits to a customer-generator in the event that the day comes where the DSP is not the EDC. FirstEnergy requests modifications to clarify the Commission's intent on this point. FirstEnergy NoPR Comments at 6.

b. Disposition

The Commission declines to adopt FirstEnergy's suggested language as it fails to address the situation where the EDC is acting as the DSP. The language suggested by FirstEnergy states as follows: "An EDC shall credit a customer-generator at the EDC's unbundled distribution kWh rate and the DSP, *where it differs from the EDC*, shall credit a customer-generator at the full generation and market based transmission kWh rate…." (emphasis added). The phrase, "the DSP, where it differs from the EDC," suggested by

FirstEnergy, would make this section applicable only to situations where the EDC is not acting as the DSP, making the regulation less clear regarding situations where the EDC is acting as the DSP. The Commission finds that the language, as proposed, and read in conjunction with the other subsections, is clear in that the EDC and DSP are only responsible for the portion of the unbundled service(s) they provide. An EDC that is not providing generation and transmission services as the DSP is not required to provide credits for those services to the customer-generator, which will be provided by the entity acting as the DSP. Vice versa, when an EDC is acting as the DSP, it would be required, as the EDC providing distribution services and DSP, providing generation and transmission services, to provide a credit for all three services.

We will, however, add language clarifying that the net metering credits apply to kilowatt-hour charges. We agree with PPL that a customer-generator is responsible for the customer charge, demand charge, and applicable riders' charges under the applicable rate schedule. *See* PPL NoPR Comments at 17-18, PPL ANoFR Comments at 22-25. We again note that this does not change the original intent of the regulations, but simply provides more clarity. Accordingly, we adopt the language in this section as proposed in the NoPR and as modified in Annex A.

5. Section 75.13(e)

The re-lettered subsection (e) is being revised to provide clarity on how excess generation amounts are determined at the end of the year and how the compensation is to be computed. These changes are not intended to change how net metering has been implemented; they are simply providing clarity so the regulation accurately reflects the Commission's intent. The revision makes it clear that only the customer-generator's excess generation that was not offset by that customer's usage is to be compensated at the price-to-compare (PTC) rate. In addition, we stated that the DSP is to use a weighted average of the PTC rate based on the rate in effect when the excess generation was

actually delivered. This was intended to compensate the customer-generator in a manner that more accurately represents the value of the excess generation.

a. Comments

Comments supporting the clarification to this section proposed in the NoPR were received from the SEF, FirstEnergy, and EAP. SEF NoPR Comments at 2, FirstEnergy NoPR Comments at 6-7, EAP NoPR Comments at 5. FirstEnergy believes that this change is consistent with the legislation, provides clarity to market participants, and is largely consistent with existing practices. FirstEnergy notes, however, that it recently spent significant time and capital to automate the process by which customer-generators are compensated for excess generation, with the automated process fully implemented in August 2013. As a result, FirstEnergy states that it currently calculates the PTC charges by applying the current PTC pricing to the customer's total generated energy, or "metered outflow." FirstEnergy states that its system accumulates both the generated energy and the monthly PTC charges on that generated energy throughout the year. When the customer is netted out and compensated each year end, the system calculates the weighted average PTC as being equal to the accumulated PTC charge on generated energy, divided by the accumulated generated kWh. The credit is then calculated by applying a weighted average PTC value to any excess generation remaining. Due to the recent automation of the process, and given that the average cash out values are not significant, FirstEnergy requests that their process be determined to be compliant with the regulations. FirstEnergy NoPR Comments at 6-7.

EAP generally supports the proposed changes to 52 Pa. Code § 75.13(e) regarding excess generation calculation at the end of the year and the manner in which compensation for the excess is to be computed. EAP appreciates the clarification that the EDC/DSP is to use a weighted average of the PTC rate based on the rate in effect when the excess generation was delivered. EAP notes that this methodology more accurately reflects the true value of the excess. EAP, however, requests further clarification on this

matter relative to the exact methodology or formula that is to be used. EAP recommends that whatever the method is, it should be both easily understandable to the net metering customer, uniform across EDCs/DSPs in the state and cost-effective to implement. EAP NoPR Comments at 5.

Duquesne agrees with the provision to use the weighted average of the PTC rate for compensation of excess kilowatt hours at the end of the year. Duquesne believes that each EDC should address credits and compensation through their individual tariffs. Duquesne ANoFR Comments at 3.

Comments opposing the clarification to this section proposed in the NoPR were received from PPL and OSBA. PPL NoPR Comments at 14-17, and OSBA NoPR Comments at 2-3. In its comments, PPL notes that cashing out using the weighted average of the PTC based on the rate in effect when excess generation was actually delivered is a new requirement that is not currently contemplated in the plain language of the net metering regulations. Although the Commission discussed using a weighted average generation and transmission rate to calculate a customer-generator's yearend compensation in a prior rulemaking (Final Omitted Rulemaking Order July 2, 2008), the applicable regulations in this section provide that a customer-generator's yearend compensation should be calculated at the PTC. PPL appreciates the Commission's efforts to clarify the yearend compensation to customer-generators, but submits that there are additional and critical considerations that must be taken into account before such a proposal can be implemented. PPL notes that the use of a weighted average generation and transmission rate will require individual price-to-compare rates for each individual customer-generator, asserting that not only will this be complicated, time consuming, and expensive, it will cause massive confusion for customers. If the proposed approach is adopted, PPL recommends that the Commission consider the time and cost involved to implement the proposed weighted average annual cash out method. Further, additional costs will be necessary to upgrade PPL's billing system to accommodate the weighted

average annual cash out method. PPL NoPR Comments at 14-17, PPL ANoFR Comments at 17-21.

PPL also notes that not all alternative energy systems produce excess generation during the same periods, which could have significant impact on net metering customers on time of use (TOU) rates. Therefore, PPL recommends that the Commission establish a pre-defined weighted average for TOU rates based upon the generation type. As an alternative to the use of a weighted average generation and transmission rate to calculate a customer-generator's year-end compensation, PPL recommends that the Commission consider adopting a straight PTC average for the year. PPL asserts that using a straight PTC average will reduce customer confusion, complexity, and the time and resources that would otherwise be required to implement the weighted average proposal. PPL recommends that the Commission adopt a reasonable time period for EDCs to design, implement, and test the modifications to their respective information technology systems necessary to implement the new weighted methodology, and that the Commission consider the cost involved to implement the proposed weighted average annual cash out method. PPL NoPR Comments at 14-17, PPL ANoFR Comments at 17-21.

OSBA states that EDCs and DSPs are obligated to cash out any annual excess net generation at the end of the year. This excess generation becomes part of the default service supply, as it implicitly offsets the purchases that the DSP must make. OSBA notes, however, that this type of default service supply has a negative impact on regular default service customers. OSBA notes that the net generator is compensated at the full PTC, which includes transmission service charges, but it is unclear that the customer-generator provides transmission cost benefits that are commensurate with the credits it receives. OSBA asserts that it is equally unclear that, to the extent that any transmission cost offsets are realized, those benefits are assigned only to the customer class that is paying for the net generation. OSBA NoPR Comments at 2-3. The OSBA generally concludes that the payment for net generation should reflect the timing of that

net generation. However, it must be recognized that any net generation involves periods of 'exports' to the grid and 'imports' to the grid. While the proposed language makes it clear that it is the Commission's intent to use a more representative price-to-compare, it is unclear how this will work in practice. OSBA ANoFR Comments at 4-5.

IRRC notes that a commentator asked for clarification on the exact methodology to make the required determinations, and another stated that the proposed language will be time consuming and costly to implement. The IRRC asks the Commission to work with the regulated community to develop a more precise and less costly alternative to the proposed language. IRRC NoPR Comments at 6.

b. Disposition

Upon review of the comments, the Commission recognizes that the applicable rates for generation and transmission to be credited and paid to customer-generators for excess generation varies by rate class and, in some instances, between customers within a rate class. The Commission also recognizes the potential significant costs associated with establishing and automating the process of computing the amount to be paid to each customer-generator for the excess generation at the end of the year. While some parties have requested that we establish specific formulae to compute the amount to be paid for excess generation, no party provided a formula that would apply to all rate designs or customer service classes. While our intent was to provide clarity to all EDCs and customer-generators regarding how the rate for excess generation is to be determined, we find that the proposed language created more confusion, as it results in varied outcomes based on the particular rate, such as time-of-use and real-time price plans, and multiple interpretations based on the rate.

For these reasons, we will delete the proposed sentence that referenced the weighted average of the PTC rate. We will continue our current practice of reviewing and approving each EDC's tariff provisions addressing this compensation during base rate and default service rate proceedings that provide an opportunity for all effected

stakeholders to be heard and to propose alternatives. We will, however, retain the clarifying language regarding what constitutes year-end excess generation and the reference to DSP.

6. Section 75.13(f)

The issue in the re-lettered subsection (f) involves the compensation level for customer-generators who exercise the option for retail choice. When a customer shops, they cease to pay the default service provider's price to compare (which includes all generation and transmission charges) and instead takes this service at a price offered by an EGS.

The current regulation acknowledges this fact, noting that the compensation for kilowatt-hours produced is a matter between an EGS and customer-generator. The regulation merely requires that the terms of the compensation be clearly stated in the service agreement. However, the regulation is silent as to how distribution charges are to be treated by the EDC. Customer-generators who shop are still responsible for the regulated distribution rates of the EDC. Like customer-generators who currently net meter while taking service from the EDC/DSP, customer-generators who take supply service from an EGS shall also receive a credit against the unbundled kilowatt-hour based distribution charges. This credit shall be equal to the unbundled kilowatt-hour distribution charge of the EDC for the customer-generator's kilowatt-hour rate schedule. As with the generation charges for customer-generators taking EDC/DSP service, any excess kilowatt-hours in any billing period are to be carried forward and credited against the customer-generator's kilowatt-hour distribution charges in subsequent billing periods until the end of the year. Any kilowatt-hour distribution credits remaining at the end of the year are zeroed-out such that the customer-generator receives no payments from the EDC, or any remaining kilowatt-hour distribution charge credits into the next year. This language is intended to provide clarity, not to change the current practice under the existing rules.

a. Comments

Comments supporting the clarification to this section proposed in the NoPR and ANoFR were received from PPL. PPL, however, recommends that the Commission consider adding clarifying language explicitly stating that the "customer-generator is responsible for the customer charge, demand charge, and applicable riders charges under the applicable Rate Schedule." PPL NoPR Comments at 17-18, PPL ANoFR Comments at 22-25.

b. Disposition

In response to PPL's request for clarification, the Commission agrees that a customer-generator is responsible for the customer charge, demand charge, and applicable riders charges under the applicable rate schedule. Accordingly, we have added further clarifying language to confirm that the distribution kilowatt-hour rate credit shall be applied against kilowatt-hour distribution usage charges. Accordingly, we adopt the language in this section as proposed in the NoPR and as modified in Annex A.

7. Section 75.13(j)

In the re-lettered subsection (j), we added references to default service and the default service rate. This change simply recognizes DSPs and the role EDCs currently play in providing default service.

PPL provided comments supporting the clarification to this section proposed in the NoPR and ANoFR. PPL NoPR comments at 18, PPL ANoFR comments at 25. No opposing comments were received to Section 75.13 (j). Accordingly, we adopt the proposed language that references default service and the default service rate.

8. Section 75.13(k)

In the re-lettered subsection (k), we added references to DSPs and clarify when charges may be applied to customer-generators. The current rule states that an EDC may not charge a customer-generator a fee or other type of charge unless the fee or charge would apply to other customers. This prohibition conflicts with regulation §75.14(e), which states that "[i]f the customer-generator requests virtual meter aggregation, it shall be provided by the EDC at the customer-generator's expense." In addition, rule §75.14(e) states that "[t]he customer-generator shall be responsible only for any incremental expense entailed in processing his account on a virtual meter aggregation basis." The re-lettered subsection (k) now allows EDCs to charge a fee that is specifically authorized under this chapter or by order of the Commission. This is intended to remove any conflicts in the regulations and provide clarity.

a. Comments

Comments supporting the clarification to this section proposed in the NoPR were received from PPL and PECO. PPL supports and appreciates the Commission's efforts to clarify that EDCs are permitted to impose fees or charges for providing virtual meter aggregation. PPL believes that imposing the costs to automate the virtual meter aggregation billing system on the limited number of existing virtual meter aggregating customers would erode any benefits that could potentially be realized by those customers. PPL submits that, to the extent that EDCs are required to automate virtual meter aggregation and/or provide additional data regarding the host and satellite accounts, EDCs should be permitted to fully recover the costs incurred, subject to review in an appropriate Commission proceeding. PPL recommends that the Commission provide additional guidance on the "incremental costs" that should be directly charged to virtual meter aggregating customers and those that should be recovered through base rates. PPL NoPR Comments at 18-20.

In its comments, PECO states the extent to which the proposed section 75.13(k) could be utilized to develop fair and reasonable charges for net metering customers

should be adequately and fully considered. Accordingly, the general nature and structure of future net metering charges should be addressed as part of the separate, comprehensive review of net metering and interconnection policies and related AEPS issues. PECO NoPR Comments at 8.

Many stakeholders oppose the proposed NoPR clarification to this section indicating that the revised language would authorize the Commission to *impose any fee* at any time at its discretion. Larry Moyer, SEF, SRECTrade, MAREA, Vincent Cahill & Claire Hunter and other numerous stakeholders filed related comments. Larry Moyer Part B NoPR Comments at 3-4, SEF NoPR Comments at 6-7, SRECTrade NoPR Comments at 2-3, MAREA NoPR Comments at 1, Vincent Cahill & Claire Hunter NoPR Comments
at 3-4.

The SEF opposes the revision to this section because it could create a venue for EDCs to charge net metering customers who do not utilize virtual meter aggregation. The language proposed by the Commission is overly broad and could be interpreted to include charging all net metering customers a fee. Instead, SEF proposes to modify the section to make it clear that any additional charge would only apply to customer-generators that utilize virtual meter aggregation and only to cover reasonable administrative costs. SEF NoPR Comments at 6-7.

SRECTrade opposes the revisions because the proposed language is overly broad and could be interpreted to include charging a minimum bill to all net metering customers. Accordingly, SRECTrade urges that the Commission rely on the original intention of §75.14(e), and restrict the applicability of §75.13(k) to the fees permitted under §75.14(e). SRECTrade NoPR Comments at 2-3. MAREA urges that we withdraw the changes to 75.13(k) giving the Commission authority to approve utility company requests to charge net metered customers special fees. MAREA NoPR Comments at 1.

IRRC comments state that this subsection would allow for the imposition of a fee or charge and it raises the following additional concerns. First, how will this fee be calculated and what factors would the Commission consider when allowing such a charge or fee? Second, would the charge or fee be limited to customer-generators, or could it be imposed on any customer of an EDC or DSP? Third, will the proposed charge or fee be exclusively tied to section 75.14(e)? If this provision remains in the final rulemaking, the IRRC recommends that the regulation specifically cite that section and delete the phrase "under this chapter." The IRRC also questions under what circumstances the Commission may, by order, impose a charge or fee and asks the Commission to quantify how much of a cost the charges or fees will impose on the regulated community. Finally, the IRRC questions the reasonableness of a provision that would stifle the development of alternative energy and whether the result is consistent with the intent of the Act. IRRC NoPR Comments at 7.

Comments opposing the clarification to this section proposed in the ANoFR were received from the DEP, PennFuture Joint Commentators, LWV, PA IPL, SolarCity and many other stakeholders. DEP ANoFR Comments at 3-4, PennFuture Joint Commentators ANoFR Comments at 4-5, LWV ANoFR Comments at 1, PA IPL ANoFR Comments at 2, SolarCity ANoFR Comments at 1.

The DEP states that the proposed regulation amends the language prohibiting EDCs from charging fees or other types of charges for net metering by adding an exception for fees or charges "specifically authorized by this chapter or by order of the Commission." The preamble of the proposed regulation explains that this language was added in order to resolve an inconsistency in the regulations. Specifically, in § 75.14(e), the PUC permits EDCs to charge fees for incremental expenses related to the processing of an account in order to provide virtual meter aggregation. While the DEP agrees that it is appropriate for customer-generators to pay for the costs related to virtual meter

aggregation as outlined in the ANoFR, inclusion of the phrase "or by order of the Commission" is unnecessary and unsupported by statutory authority. The inconsistency identified by the PUC is fully resolved by the inclusion of the phrase "specifically authorized by this chapter" which clearly would include the fees in § 75.14(e). A blanket authorization to impose fees as the PUC may see fit goes far further than needed to address the inconsistency, and opens the door for the future imposition of fees not intended under the AEPS Act. As with the virtual meter aggregation fees, any future additional fees should be properly vetted within the context of the Regulatory Review Act, and consistent with the intent of the Act. DEP ANoFR Comments at 3-4.

The Joint Commentators oppose the changes in this section and believe that the actual proposed language allows fees to be charged to any net-metered customer, not just customers whose accounts are aggregated through virtual meter aggregation. They further state that the proposed language does not restrict the fees to administrative costs of aggregating and billing virtual meter aggregation accounts. In fact, there are no standards or reasons given as to when and why the Commission could order an additional fee. The Joint Commentators feel that the language needs to be rewritten so that it is firmly within the limits of the Act. The new language should clearly apply only to the administrative costs of billing virtual meter aggregation systems. Joint Commentators ANoFR Comments at 4-5.

PA IPL opposes the changes in §75.13(k) that would give the Commission authority to allow utilities to charge any new fees that are not also levied upon non-net metered customers. PA IPL believes levying these fees would violate the AEPS guarantee that net metered customers receive the full retail rate for all generation of their solar installation up to their annual usage. Moreover, the proposed change fails to provide any basis for determining this fee. If there is to be a fee, it should be based on a full cost of service study that evaluates both the costs and the benefits of each specific net metered system. PA IPL ANoFR Comments at 2.

b. Disposition

In response to concerns raised by IRRC and other parties, we note that in addition to making this section consistent with § 75.14(e), the regulations also permit interconnection fees that are set by the Commission. These fees are addressed in the existing regulations at 52 Pa. Code §§ 75.21, 75.22, 75.31-75.40. Specifically, 52 Pa. Code § 75.33 (Fees and forms) states that "[t]he Commission will determine the appropriate interconnection fees for Levels 1, 2, 3, and 4." The Commission establishes these fees through orders based on filings submitted by the EDCs, which give all interested parties an opportunity to be heard and an evidentiary hearing if needed. *See* Commission Policy Statement at 52 Pa. Code § 69.2102 (relating to the purpose of interconnection application fees). We also note that any fee an EDC seeks to impose for the costs associated with virtual meter aggregation must also receive Commission review and approval through a process that gives notice to interested parties and gives interested parties an opportunity to be heard. The Commission will rule on such fee petitions through an order adopted at a public meeting. Thus, the proposed language simply makes clear what § 75.14(e) and § 75.33 already established and removes the inconsistency.

Regarding the possibility of other fees, the Commission has full ratemaking authority related to electric service by an electric public utility. *See* 66 Pa. C.S. § 1301. The Commission has a well-established process for setting electric public utility rates that affords all interested parties ample notice and opportunity to be heard. *See* 66 Pa. C.S. 1308. Through these ratemaking proceedings, cost of service studies, as suggested by PA IPL, may reveal unjust and unreasonable intra- or inter-class subsidies that require changes in the rates or fees imposed on specific customer classes. *See, e.g., Lloyd v. Pa. PUC*, 904 A.2d 1010 (Pa. Cmwlth. 2006) (discussing cost of service). The Commission has had such authority since its inception. Any rates, costs or fees approved by the Commission are based on the evidence presented during appropriate proceedings, such as rate case proceedings. See 66 Pa. C.S. §§ 1308-1309. Thus the Commission cannot, at this time, determine when such rates, costs and fees will be imposed or their impact on

any particular customer class or customer. The Commission is in no way setting or establishing any new rates or fees with this rulemaking.

The language change proposed simply puts all parties on notice of the possibility of fees. Again, as stressed throughout this process, the purpose of many of these changes is to provide clarity and to fully inform all stakeholders of these and other regulatory issues. No party has cited to any restriction in the AEPS Act that preempts or in any way restricts the Commission's ratemaking authority. As always, when setting rates and fees, the Commission will provide all interested parties ample notice and opportunity to be heard regarding such rates and fees. Accordingly, we find that the proposed language for 75.13(k) is appropriate and fully within the Commission's authority and adopt the language as proposed.

D. Net Metering: § 75.12 and § 75.14. Meters And Metering

We are proposing to clarify the definition of virtual meter aggregation in Section 75.12 and the application of virtual meter aggregation in Section 75.14(e). In addition, we are proposing to revise the definition of year and yearly in Section 75.12.

1. Virtual Meter Aggregation

We are proposing several changes to the provisions regarding virtual meter aggregation to clarify when it is available.[10] Virtual metering was initially proposed in this regulation for the purpose of facilitating the development of distributed generation in the agricultural setting, particularly for systems referred to as anaerobic or methane biodigesters. The Commission learned that it was not uncommon for a farmer to own multiple, non-contiguous parcels of land that were separately metered to measure the load

[10] The amendments proposed in this section include, but are not limited to, the concerns noted by the Commission in *Larry Moyer v. PPL Electric Utilities Corp.*, Opinion and Order, Docket No. C-2011-2273645 at 17-20 (entered January 9, 2014), in which the Commission referred the issue of whether an interconnected alternative energy system qualifies for net or virtual metering if there is no

served at each location. The Commission chose to permit the virtual metering of these parcels to achieve the policy objectives of the AEPS Act:

> The fundamental intent of Act is the expansion and increased use of alternative energy systems and energy efficiency practices. Regulatory and economical barriers have been in place that prevented systems such as anaerobic digesters from being more economical or further developed. This rulemaking provides an opportunity to advance the use of these alternative energy systems in a way that will benefit the customer-generator, ratepayers and the environment by allowing exceptions for this important class of customers. Accordingly, we will permit virtual meter aggregation for customer-generators.
>
> As pointed out by the Pennsylvania Farm Bureau, the proposed definition and application of virtual meter aggregation do not fit the reality of a typical Pennsylvania farm operation that has adequate animal units to produce required amounts of manure for anaerobic digesters to operate efficiently. The Pennsylvania Department of Agriculture recently surveyed 26 farms in the state that either have manure digesters operating, digesters under construction or in the planning stages. Out of the 21 farm operations that responded to the survey, there are 148 individual meters involved, which represents an average of seven meters per farm.
>
> Additionally, a study completed by Dr. James Cobb from the University of Pittsburgh, in 2005, titled Anaerobic Digesters on Dairy Farms, indicates a potential of 50-60 digesters being developed on Pennsylvania dairy farms in the foreseeable future. The digesters will not be developed to this extent if the proposed metering aggregation restrictions remain in place.

Final Rulemaking Re Net Metering for Customer-Generators Pursuant to Section 5 of the Alternative Energy Portfolio Standards Act, Docket L-00050174 at 21 (Order entered June 22, 2006).

Subsequent to the Commission's 2006 rulemaking, the General Assembly amended the AEPS Act and included the definition for virtual meter aggregation within the definition of net metering in 73 P.S. § 1648.2.[11] The language in the

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non-generational load at the interconnection point, to the Law Bureau to consider whether the regulations need to be clarified.

[11] *See* P.L. 114, No. 35 of 2007.

amended AEPS Act is nearly identical to the language adopted by the Commission in this proposed rulemaking.

Since the Commission's regulations became effective, various parties have presented scenarios to the Commission for virtual meter aggregation that do not comport with our intent to permit a limited amount of virtual meter aggregation. This includes fact patterns where distributed generation is proposed to be installed at a location with no load, but then virtually aggregated with another location that has no distributed generation. Another example includes a retail customer hosting distributed generation that it neither owns nor operates and then aggregating it with a meter account owned and operated by an entirely different customer at another location within the two mile limit. The Commission proposed revisions in the NoPR to Sections 75.12 and 75.14 to clarify the acceptable scope of virtual meter aggregation.

a. NoPR Comments

Comments supporting the changes proposed in the NoPR to the definition of virtual meter aggregation in Section 75.12 were received from FirstEnergy. FirstEnergy supports the Commission's proposed changes to the definition, but believes that the definition would also benefit from further clarification of what qualifies for virtual meter aggregation, as there is often confusion in application of this term as to how broadly the legislature intended this term to be applied. FirstEnergy suggests that for clarification purposes it also be specified that retail electric accounts in the name of different legal entities or customers should not be included in the virtual meter aggregation of a customer-generator. FirstEnergy NoPR Comments at 4-5 and 7-8.

Comments opposing the changes proposed in the NoPR to the definition of virtual meter aggregation in Section 75.12 were received from numerous parties. PSU feels that the proposed amendment requiring measurable electric load independent of the alternative energy systems and the proposed requirement that a customer-generator have

electric load behind the meter and point of interconnection, will severely curtail the deployment of alternative energy systems by customer-generators that have multiple varied, non-contiguous tracts of property. PSU asserts that this frustrates the fundamental intent of the Act. PSU NoPR Comments at 7-9. Citizen Power disagrees with the proposed modification that requires that each location must have measurable electric load, independent of the alternative energy system, in order to be aggregated. Citizen Power NoPR Comments at 2-3.

In its comments, PPL states that it generally supports the proposed changes. However, PPL believes the requirement that virtual meter aggregation systems have independent load needs further clarification. PPL recommends that the requirement for independent load be modified to make it clear that it applies to the satellite account (e.g. the primary account for the residence or building) rather than the host account (e.g. the account for the alternative energy system). PPL believes that applying the requirement for independent load to the host account is entirely inconsistent with the purpose of virtual meter aggregation and would render virtual meter aggregation meaningless. PPL NoPR Comments at 20-21.

The ABC opposes the proposed change to the definition that adds a requirement that all service locations must have separate existing measureable load. This proposed change would prevent appropriate siting for virtual net metered systems, as it requires systems to be installed in close proximity to a customer-generator's existing meters that have a measurable load. These proposed modifications create a new hurdle for project development and limit the potential for additional renewable resources for Pennsylvania. ABC NoPR Comments at 4. The LCCD expresses its concern regarding the application of virtual meter aggregation and states that it is unclear which end-users can be included in the maximum two miles distance from the property that is generating the renewable energy. LCCD NoPR Comments at 1.

b. ANoFR Proposal

In the ANoFR, the Commission proposed language to clarify that the meter accounts to be aggregated must be held by the same person or entity. This clarifying language is to ensure consistency with the AEPS Act requirement that the meters to be virtually aggregated must be on properties owned or leased and operated by one customer-generator and must be located within a single EDC service territory.

c. ANoFR Comments

Comments supporting the changes proposed in the ANoFR to the definition of virtual meter aggregation in Section 75.12 were received from FirstEnergy. FirstEnergy strongly supports this definition and recommends that it be adopted. FirstEnergy ANoFR Comments at 2.

Comments opposing the changes proposed in the ANoFR to the definition of virtual meter aggregation in Section 75.12 were received from several stakeholders, such as Granger, OCA, PA IPL, and many others. Granger states that the changes proposed to Section 75.12 would require each meter of a customer-generator to have measurable load not related to the alternative energy system. Granger feels that the proposed regulations could prevent the use of virtual net metering and would impact the ability to locate alternative energy systems. Granger, therefore, believes that there is little, if any, justification for creating and applying such a restriction on any customer-generator. There are legitimate scenarios where a customer-generator may wish to build a stand-alone, alternative energy system and use virtual net metering to offset that customer-generator's demands at another location. Granger asserts that no reasonable explanation has been presented for prohibiting such arrangements, and no statutory support can be found for an "independent" load requirement for virtual net metering under the AEPS Act. Granger NoPR Comments at 23-27, Granger ANoFR Comments at 14-15.

In its comments, the OCA states that the ANoFR proposes to modify the definition of virtual meter aggregation in Section 75.12. As compared to the original revision in the NoPR, this definition clarifies that the meter accounts to be aggregated must be held by the same person or entity. The OCA appreciates the clarification, but continues to have concern about the independent load requirement. The wording appears to require independent load at each meter. This may preclude a residential customer from locating solar panels on their property if that location required a separate meter but has no independent load at that location. Requiring load behind each meter location for residential installations could limit the development of residential alternative energy systems. The OCA states that there are many reasons a residential customer-generator may need to locate an alternative energy system at some distance from the home, where the meters that would have the independent load are located. The OCA recommends, for residential installations, that the Commission clarify the requirement of having independent load. OCA NoPR Comments at 5-8, OCA ANoFR Comments at 4-6.

The PA IPL opposes the proposed change in § 75.12 to the definition of virtual meter aggregation that adds a requirement that all service locations must have separate existing measurable load. It should be sufficient that the customer-generator have measurable electric load, not that each meter of the customer-generator have measurable load. This proposed change would prevent appropriate sighting for virtual net metered systems as it requires systems to be installed in proximity to a customer-generator's existing meters that have a measurable load. PA IPL asserts that this violates the AEPS legislation's intent to promote new clean distributed generation. PA IPL ANoFR Comments at 3.

PPL supports the virtual meter aggregation revisions, but again recommends that, for the purposes of virtual meter aggregation only, the requirement for independent load be modified to make it clear that it applies to the satellite accounts(s) (the primary accounts(s) for the residence(s) or building(s)) rather than the host account (the account

for the alternative energy system), because there could be no independent load on the host account. PPL notes that this modification, together with the 200% size limitation, will continue to limit the potential for merchant generators to use virtual meter aggregation as a way to circumvent the wholesale electric market and realize retail rate subsidies at retail customers' expense. PPL ANoFR Comments at 27-28.

Additional comments opposing the changes proposed in the ANoFR to the application of virtual meter aggregation were received from many commentators, such as the DEP, and Larry Moyer. DEP ANoFR Comments at 4, Larry Moyer ANoFR Comments at 1-4.

In its comments, the DEP states that under the ANoFR, customer-generators can aggregate generation and load at different locations subject to certain conditions. One of these conditions is that all service locations to be aggregated must have measurable load independent of any alternative energy system. The Commission identifies as a problem "fact patterns where distributed generation is proposed to be installed at a location with no load, but then virtually aggregated with another location that has no distributed generation" and seemingly intends the identification of this issue as a problem to be self-evident. The DEP disagrees. DEP argues that it would not be unreasonable, for example, for a property owner with multiple acres to install solar panels on a remote corner of their property. If it makes more economic sense to interconnect this generation to a nearby distribution line instead of connecting the system back to the customer-generator's meter, that option should remain available to both the customer-generator and the electric distribution company. The result of requiring load independent of the distributed generation system will add additional costs or disqualify systems unnecessarily. The Commission's proposed limitations requiring that service location accounts be held by the same entity provides an adequate safeguard against the merchant generator concerns related to independent load at the distributed generation site. Ultimately, the intent of the net-metering and virtual metering provisions of the Act is to

encourage the installation of distributed alternative energy generation. DEP ANoFR Comments at 4.

Larry Moyer opposes the independent load requirement, claiming that the proposed regulations limit access to virtual meter aggregation. Mr. Moyer states that the proposed change eliminates broad access to virtual meter aggregation as stated in the AEPS Act. He claims that the revisions discriminate against residential customers and favor commercial customers. Larry Moyer ANoFR Comments at 1-4.

d. Disposition

Issues raised regarding what is and is not virtual meter aggregation and whether independent load is required were addressed above in the disposition for changes to § 75.13(a) (Independent Load) at Section C.1.a.ii of this Order. As such, they will not be restated here. The Commission, however, agrees with FirstEnergy that further clarifying language regarding what service locations are and who qualifying account holders are for virtual meter aggregation is needed, and has added language providing the clarification requested by FirstEnergy. Accordingly, we adopt the proposed changes as modified in Annex A.

2. Year And Yearly

In the existing regulations, the term year and yearly, as it applies to net metering, is defined as the planning year as determined by the PJM Interconnection, LLC regional transmission organization. The Commission selected this definition initially to avoid confusion, as it is the same as the AEPS Act compliance year of June 1 through May 31.[12] In implementing these regulations over the last seven years, it has become clear that the vast majority of net metered customer-generator systems are solar photovoltaic systems. We recognize that these solar photovoltaic systems produce their peak outputs

[12] *See Implementation of Act 35 of 2007 Net Metering and Interconnection*, Final Omitted Rulemaking Order at Docket No. L-00050174, entered on July 22, 2008 at 11 and 12.

during the months of May through September. Accordingly, with a year ending in May, many of these systems may have excess generation that receives a payment at the price-to-compare rate as opposed to receiving a fully bundled credit toward their subsequent billing periods. Therefore, we initially proposed to revise the definition for year and yearly as it applies to net metering to the period of time from May 1 through April 30.

a. NoPR Comments

Comments supporting the changes proposed in the NoPR to the term "year and yearly" as it applies to net metering to the period of time from May 1 through April 30 were received from several stakeholders, such as Robin Alexander, PES, and SEF. Robin Alexander NoPR Comments at 4, PES NoPR Comments at 1, SEF NoPR Comments at 2.

Comments opposing the changes proposed in the NoPR were received from PPL, PECO and EAP. PPL NoPR Comments at 21-22, PECO NoPR Comments at 9-10, EAP NoPR Comments at 3-4. In its comments, PPL recommends a change and states that the proposal appears to be directed primarily towards maximizing the value received by photovoltaic alternative energy systems, which produce the majority of their excess generation between May and August and, in theory, would be able to bank more excess generation at the full retail rate and carry it forward. PPL submits that the proposed change in the yearly period will disassociate the net metering period from the PJM planning period and price-to-compare issuance periods, which run June 1 through May 31. The proposed change will further complicate its billing systems and needlessly confuse customers. PPL NoPR Comments at 21-22.

PECO disagrees with the proposed changes for several reasons. First, the proposal would misalign the net metering program with existing regulatory and operational frameworks for PJM and implementation of the AEPS Act and default service. Second, the change would likely increase cost-shifting for net metering customers at the expense of other distribution customers. Finally, PECO would have to incur additional costs to implement software changes to accommodate a different net metering calendar. PECO NoPR Comments at 9-10.

In its NoPR comments, the IRRC states that commentators are concerned that the amendment to this definition will impose costs on EDCs that relate to modifications to information technology and billing systems. The IRRC asks the Commission to work

with the regulated community to gain a better understanding of how the proposed amendment would be implemented and the corresponding financial implications of such changes. IRRC NoPR Comments at 5.

b. ANoFR Proposal

Consequent to IRRC's request to work with the regulated community, a revision to this section was proposed in the ANoFR and the term "year and yearly" as it applies to net metering was changed to the period of June 1 through May 31.

c. ANoFR Comments

Comments supporting the changes proposed in the ANoFR to the term "year and yearly" as it applies to net metering were received from FirstEnergy, PPL and PECO. In its comments, FirstEnergy supports the alignment of the net metering term year to the PJM planning year. FirstEnergy ANoFR Comments at 2. PPL and PECO strongly support the change back to the period of time June 1 through May 31. PPL ANoFR Comments at 9, PECO ANoFR Comments at 2.

d. Disposition

The Commission finds that the changes to the definition of year and yearly to the period of time from June 1 through May 31 provides clarity to all interested stakeholders in a manner that does not increase EDC costs borne by ratepayers. Accordingly, we adopt the proposed definition for year and yearly as it applies to net metering to the period of time from June 1 through May 31.

E. Net Metering: § 75.16. Large Customer-Generators

This section has been added to address distributed generation systems with a nameplate capacity of greater than three megawatts and up to five megawatts, which for purposes of this rulemaking we will refer to as large customer-generators. The AEPS Act states that systems of this size may qualify for customer-generator status if they meet

certain conditions, such as being able to support the transmission grid during an emergency, or being part of a microgrid and able to maintain critical infrastructure.

In the existing regulations at 52 Pa. Code § 75.1, the definition for customer-generator found in the Act is repeated word for word. In the proposed Section 75.16 we provide clarification so that potential applicants have a reasonable level of certainty that their systems will qualify for customer-generator status before making an investment to purchase and install such a system.

The proposed Section 75.16 identifies the standards that must be met to qualify as a large customer-generator. A customer-generator will be considered to be supporting the grid if an RTO, such as PJM, has formally designated it as a resource that the RTO will call upon during a grid emergency. For example, the PJM Operating Agreement and Open Access Transmission Tariff (OATT)[13] identifies certain emergency rules and procedures in which it may call upon generation resources to run at maximum output to provide support during a generation or transmission emergency. These procedures and associated rules are also delineated in PJM's Reliability Assurance Agreement on file with FERC. Should a customer with a distributed generation system of between three megawatts and five megawatts have all or a portion of its system designated an emergency type support resource by an RTO, it may seek qualification as a customer-generator from the Commission. The applicant will have the burden of demonstrating through appropriate documentation that it has been designated by the RTO as a grid support generation resource.

We note that the customer-generator definition, requiring the large facilities to operate in parallel with the local utility during grid emergencies or be part of a microgrid to support critical infrastructure, implies that a customer-generator is capable of operating

[13] See PJM Agreements/Governing Documents, available at http://www.pjm.com/documents/agreements.aspx.

off the grid under certain circumstances. In the case of the grid emergency requirement, the generation facility is able to increase generation output supplied to the local grid or remove all output to the local grid during a grid emergency. Thus, entities that own facilities with a nameplate capacity of between three megawatts and up to five megawatts that normally supply most or all of their output to the local utility cannot qualify as customer-generators, as they cannot make their generation available to operate in parallel with local utilities during grid emergencies. In contrast, this definition implies that where a microgrid exists to support critical infrastructure, the generating facility can normally supply energy to and operate in parallel with the local utility, but is able to operate off the local utility grid during grid emergencies to support the continued operation of critical infrastructure. A large distributed generation system may also qualify for customer-generator status if it is part of a microgrid and provides generation to critical infrastructure. Examples of critical infrastructure are provided within the AEPS Act and have been included in the definition of customer-generator in the regulation.

1. NoPR Comments

Comments supporting the changes proposed in the NoPR to this section were received from PPL and PECO. PPL generally supports the proposed changes that address distributed generation systems with a nameplate capacity of greater than three megawatts and up to five megawatts, and to identify the standards that must be met to qualify as a large customer-generator. PPL, however, feels that the definition of grid emergencies needs further clarification. PPL NoPR Comments at 22. PECO supports the proposed changes in this section, but requests clarification regarding the extent to which a system that operates continuously or is powered by wind or solar energy could satisfy the large customer-generator requirement of proposed Section 75.16(b)(3). PECO NoPR Comments at 10.

Comments opposing the changes proposed in the NoPR to this section were received from several stakeholders, such as LCSWA, SRECTrade, DOJ and PJM.

LCSWA and DOJ comment that the requirement to limit generation to emergencies called by PJM is, effectively, a limitation on renewable project capacity to less than three megawatts and not a realistic route to large projects. LCSWA NoPR Comments at 2, DOJ NoPR Comments at 2. SRECTrade states that the definition of customer-generator imposes very specific pre-qualifications to the qualification of a customer-generator. SRECTrade argues that while it would certainly be beneficial if such generators *could* serve as a grid support generation resource, it seems onerous to *require* a retail electric customer to serve as a grid support generation resource *in order to be* qualified as a customer-generator. SRECTrade avers that the proposed changes in this section create a conflict between the intention of the definition of customer-generator and these specific, onerous requirements. SRECTrade asserts that these procedures could impact a customer's net meter eligibility. Therefore, SRECTrade suggests that the Commission adjust the proposed language in section 75.16 to match the intention of the definition of customer-generator, so that customers will not be required to have their system pre-qualified by rigorous RTO procedures *before* they are able to seek qualification by the Commission. SRECTrade NoPR Comments at 3-5.

PJM states in its comments that it supports the Commission's requirement that each distributed generation system be able to support the transmission grid during an emergency. PJM, however, notes that most, if not all, distributed generations systems participating in the Commission's retail net metering program do not satisfy the requirements under PJM's governing agreements to be designated and compensated as generators that may be called upon to respond to grid emergencies. PJM states that the proposed regulations will not result in the distributed generation systems being available to respond to grid emergencies. PJM requests that the Commission adopt a preferred method that it will use to request support from customer-generators during grid emergencies. PJM NoPR Comments at 2-4.

The IRRC notes that commentators believe that it is unrealistic for some renewable energy projects of this size, such as wind and solar, to be available during grid emergencies as required under subsection (b). IRRC requests clarification on how systems that operate continuously or are powered by wind or solar can comply with this provision. Another commentator notes that the provision, as written, would not allow a system to respond during grid emergencies because of governing agreements with RTOs. The IRRC asks the Commission to explain how this section will be implemented and to amend the NoPR accordingly to address these concerns. IRRC NoPR comments at 7.

2. ANoFR Proposal

The Commission recognized IRRC's and other commentators' concerns to the NoPR and proposed changes in the ANoFR to the standards that qualify a distributed generation system with a nameplate capacity above three megawatts and up to five megawatts for customer-generator status by eliminating the requirement that the RTO designate the alternative energy system as a generation resource.

3. ANoFR Comments

PPL submitted comments supporting the changes proposed in the ANoFR to Section 75.16. PPL ANoFR Comments at 28. No opposing comments were received.

4. Disposition

In regards to concerns raised by IRRC and other parties about the ability of intermittent resources to meet the conditions proposed in Section 75.16, we note that it is the language in the AEPS Act that requires these conditions. The Commission is without authority to promulgate regulations that conflict with this language and permit systems that cannot meet these conditions to net meter. The AEPS Act definition for customer-generator states, in part, the following:

> except for customers whose systems are above three megawatts and up to five megawatts who make their systems available to operate in parallel with the electric utility during grid emergencies as defined by the regional

> transmission organization or where a microgrid is in place for the primary or secondary purpose of maintaining critical infrastructure, such as homeland security assignments, emergency services facilities, hospitals, traffic signals, wastewater treatment plants or telecommunications facilities….

73 P.S. § 1648.2 (definition of customer-generator). This definition specifically requires the alternative energy systems to operate in parallel during a grid emergency. Grid emergencies could occur during any time for a multitude of reasons, such as weather, high demand or equipment failures that result in high or low voltage conditions on the grid. During high voltage conditions, the grid operator must be able to decrease the flow of electricity on the grid by reducing generation until the grid voltage returns to safe levels. During low voltage conditions, the grid operator must be able to either increase generation or decrease customer demand by ramping up generation or calling on demand response resources to reduce demand until the grid voltage returns to safe levels. To meet these AEPS Act requirements, the alternative energy system must be available whenever a grid emergency occurs. If the alternative energy system is unable to respond due to a system design limitation or other contractual obligation, it does not satisfy the requirements contained in the AEPS Act.

Regarding microgrids designed to maintain critical infrastructure, we note that by definition, a microgrid must be able to island itself from the grid and continue to provide power to the customers and facilities connected to that microgrid. If an alternative energy system can demonstrate that it is a distributed resource that supports a microgrid when the microgrid is disconnected from the larger grid, it will qualify as a large customer-generator. Again, this is a requirement imposed by the AEPS Act, not the Commission. In promulgating these regulations, the Commission is providing an avenue for nonutility owners or operators of alternative energy systems to qualify as customer-generators when the alternative energy systems have a nameplate capacity above three megawatts and up to five megawatts as required by the AEPS Act.

Allowing such systems to qualify for net metering when they cannot meet the AEPS Act requirements would be contrary to the plain language of the AEPS Act and beyond the Commission's authority to grant. We again note that while the purpose of the AEPS Act is to promote alternative energy, the General Assembly placed limits on how such systems are to be promoted. The size limitations contained in the definition of customer-generator are such that the Commission cannot contravene. For these reasons we adopt the proposed language as modified in Annex A.

F. Net Metering: § 75.17. Process For Obtaining Commission Approval Of Customer-Generator Status

Since the inception of the AEPS Act and these regulations, the EDCs have been solely responsible for interconnecting and approving net metering for all customer-generators. While this has worked well for EDCs and customer-generators, the Commission has received some reports of inconsistent application of the net metering rules. As such, we are proposing a process for seeking Commission approval of all customer-generators with a nameplate capacity of 500 kilowatts or greater.

Under the proposed process, EDCs are to submit completed net metering applications for alternative energy systems with a nameplate capacity of 500 kilowatts or greater to the Commission's Bureau of Technical Utility Services (TUS) within 20 days of receiving them, along with a recommendation on whether the proposed alternative energy system complies with these rules and the EDC's net metering tariff. The EDC is to serve its recommendation on the applicant, who has 20 days to submit a response to TUS. TUS must review the application, EDC recommendation and applicant response and, pursuant to delegated Commission authority, approve or disapprove the application within 30 days of its submission. TUS is to describe in detail its reasons for disapproval of an application. The applicant or the EDC may appeal TUS's determination to the Commission within 20 days after service of notice in accordance with Section 5.44 (relating to petitions for appeal from actions of staff).

In the ANoFR, the Commission shortened the time EDCs have to submit an application with its recommendation to TUS from 20 to 15 days. In addition, TUS now has 10 days, as opposed to 30 days, to review an EDC recommendation to approve a net metering application. Finally, for review of an EDC recommendation to deny a net metering application, TUS is to issue its determination within 30 days of receipt of the EDC's recommendation or within five days of receipt of an applicant's reply, whichever is earlier.

1. NoPR Comments

Comments supporting the changes proposed in the NoPR to this section were received from PPL, FirstEnergy and EAP. EAP NoPR Comments at 5-6. PPL supports the proposed process, but notes that, if adopted, the interconnection regulations should also be updated and reconciled with the proposed process. PPL NoPR Comments at 22. FirstEnergy also supports the changes to Section 75.17; however, it feels that the process outlined is expected to increase the costs borne by EDC's in processing net metering applications for units in excess of 500 kW. FirstEnergy urges the Commission to increase the fees an EDC may charge for the review of such applications. FirstEnergy NoPR Comments at 8.

Numerous stakeholders, such as PennAg, Sunrise and PECO, submitted comments opposing the changes proposed in the NoPR to the process for obtaining Commission approval of customer-generator status. PennAg urges the Commission to waive the requirement for obtaining Commission approval of customer-generator status with a nameplate capacity of 500 kilowatts or greater for farms. PennAg NoPR Comments at 2. Sunrise opposes the increase of the proposed processing time from 10 days to 20 days for the initial EDC application, followed by an additional 30 days for TUS. Sunrise asserts that adding a minimum of 40 days to this process is nearly certain to doom most large projects. Sunrise NoPR Comments in a letter dated 7/24/15. PECO believes that Section

75.17(b) should be revised so that it provides an adequate review timeframe, consistent with the existing process. In particular, PECO suggests that EDCs should be given 10 *business days* to determine whether an application is complete and then 20 *business days* to evaluate the completed application and communicate that evaluation to TUS. PECO NoPR Comments at 11.

2. ANoFR Proposal

The Commission acknowledged these concerns and consequently proposed language in the ANoFR that shortened the time EDCs have to submit an application with its recommendation from 20 to 15 days.

3. ANoFR Comments

Comments supporting Commission approval for net metering systems over 500 kilowatts and opposing the shortened EDC review time changes proposed in the ANoFR were received from FirstEnergy, PECO, PPL and Duquesne. FirstEnergy ANoFR Comments at 4-5, PECO ANoFR Comments at 9-10, PPL ANoFR Comments at 28-29, Duquesne ANoFR Comments at 3-4. FirstEnergy notes that it supports the Commissions involvement in the approval of large systems, but it objects to the reduced timeframe. FirstEnergy avers that the revised timeframe does not provide adequate time for an effective review and is inconsistent with the standard interconnection process and creates a direct conflict within the regulations. FirstEnergy further states that requiring an EDC to submit its recommendation to TUS prior to completion of the review is inappropriate. FirstEnergy recommends that all projects over 500 kilowatts be submitted to TUS concurrent to the time they are submitted to the EDC. FirstEnergy proposes that the EDC would wait for TUS to rule on project eligibility prior to a full engineering review. FirstEnergy ANoFR Comments at 4-5.

PECO supports Commission approval to net meter for projects over 500 kilowatts. PECO, however, states that the proposed shortened review time could jeopardize safety

and reliability especially with larger projects. PECO recommends adoption of the timeframe proposed in the NoPR. PECO ANoFR Comments at 9-10.

In its comments, the IRRC states that this section establishes the process through which EDCs obtain PUC approval to net meter alternative energy systems with a nameplate capacity of 500 kilowatts or greater, and asks if this process will run simultaneously with the review procedures set forth in subchapter (c), relating to interconnection standards for new customer-generators. The IRRC asks the Commission to ensure this new section does not delay a potential customer-generator's ability to employ a new alternative energy system as quickly as possible. IRRC NoPR Comments at 7.

PPL and Duquesne support Commission approval of customer-generator status for systems with a nameplate capacity of 500 kilowatts or greater; however, they oppose the shortened time period for EDC technical review. PPL ANoFR Comments at 28-29, Duquesne ANoFR Comments at 3-4.

Comments opposing the changes proposed in the ANoFR to this section were received from DCIDA, PSU and SolarCity. In its comments, DCIDA references its previous comments under Section 75.13(a)(6) and states that the Commission has not responded to the IRRC's inquiry to justify the alleged costly burden to have systems over 500 kilowatts reviewed and approved for net metering by the Commission. DCIDA ANoFR Comments at 10. PSU avers that the added review time creates an undue burden and discourages the research, deployment and development of renewable energy systems. PSU ANoFR Comments at 17-18.

In its comments, SolarCity states that the proposed procedure for Commission approval for alternative energy systems with a nameplate capacity of 500kW or greater will further delay project development timelines. SolarCity notes that all

customer-generators are required to size the alternative energy system to generate no more than 200% of the customer-generator's annual electric consumption, regardless of nameplate capacity. SolarCity suggests that any inconsistency in the application of net metering rules or the application of an EDC's tariff should be dealt with by the respective EDC prior to granting approval to interconnect. SolarCity ANoFR Comments at 1.

4. Disposition

The Commission reviewed the comments submitted in reference to the proposed shortened review time for EDCs to submit an application with its recommendation to TUS. We agree that revising this section to 15 days instead of 20 days could jeopardize safety and reliability. As such, we increase the time EDCs have to submit an application with its recommendation to TUS from 15 days to 20 days, as previously proposed in the NoPR. We note, however, that these are calendar days and not business days. In response to IRRC's comments, we also note that the proposed regulation does not prohibit this review process from running concurrent with the interconnection timelines in subchapter (c), and we anticipate that they would. We also find that this timeline will not unreasonably delay the employment of an alternative energy system as the timeline is similar to the interconnection timelines and should run concurrently with those timelines. Furthermore, we note that we are not seeking anything in this process that the developer would not already be required to provide the EDC. The Commission finds that these timelines appropriately balance the rights of all interested parties while providing little or no delay in the development of new alternative energy systems. Accordingly, this subsection is adopted as found in Annex A.

G. Interconnection: § 75.22. Definitions

The Commission is proposing a revision to the definition for "electric nameplate capacity." Parties have asked for clarification in the solar photovoltaic context as to whether it is the capacity of the panels that should be measured, or that of the inverter that converts the electricity from direct current (DC) to alternating current (AC). For

example, while the panels of a particular residential location may have a DC capacity of 50 kW, the inverter may only be able to convert a maximum of 45 kW to AC. The other five kW is lost in the conversion process.

The Commission has been asked to designate the capacity limit as that of the inverter to enable customer-generators to maximize their output and possible compensation. Accordingly, under the above fact pattern, a residential customer might install panels with 55 kW of DC capacity, but as long as the inverter's AC capacity was no greater than 50 kW, it would qualify as a customer-generator.

The AEPS Act describes a customer-generator in the residential context as the owner or operator of a "net-metered distributed generation system with a nameplate capacity of not greater than 50 kilowatts." *See* 73 P.S. § 1648.2. The key word in this description is "system." The definition does not refer to individual components of a generator, such as panels or inverters, but to the entire generation system. Therefore, the Commission finds that as the General Assembly referred to the distributed generation system, the General Assembly intended for customer-generators to have the full benefit of the capabilities of the entire generation system, which in the case of a solar photovoltaic system is the output at the inverter, not the panels. Therefore, electric nameplate capacity will be revised to refer to the limits of the inverter or inverters (if more than one is needed) at a particular customer-generator location, as opposed to the generation device.

1. Comments

Comments supporting the changes proposed in the NoPR to the definition of electric nameplate capacity were received from PPL and SEF. PPL NoPR Comments at 23, PPL ANoFR Comments at 30, SEF NoPR Comments at 2.

Comments opposing the changes proposed in the NoPR to the definition of electric nameplate capacity were received from SRECTrade. SRECTrade urges the Commission to elaborate on this definition as to its applicability to the alternative energy credit certification under Section 75.63. As is, it is unclear whether the nameplate capacity as used in Section 75.63 is subject to the revised definition under Section 75.22, or if the nameplate capacity as used in Section 75.63 will continue to reference the facility's DC capacity. SRECTrade NoPR Comments at 5.

2. Disposition

As described above, electric nameplate capacity is based on the capacity capabilities of the entire generation system, which in the case of a solar photovoltaic system is the output at the inverter, not the panels. The Commission finds that the proposed changes to the definition of electric nameplate capacity in Section 75.22 does not conflict with the language relating to the alternative energy credit certification under Section 75.63. Nameplate capacity refers to the maximum watt output the system is capable of generating at any given time. Section 75.63 refers to the certification of alternative energy credits, which represents one megawatt-hour of generation from the alternative energy system or the actual generation output over time. Any reference to nameplate capacity found in Section 75.63 has the same meaning as that being established in Section 75.22. Consequently, the Commission adopts the proposed language to the definition of electric nameplate capacity to refer to the limits of the inverter or inverters (if more than one is needed) at a particular customer-generator location, as opposed to the generation device.

H. Interconnection: §§ 75.31, 75.34, 75.39, And 75.40. Capacity Limits

These sections have been revised to reflect the increase of the capacity limit for customer-generators from 2 MW to 5 MW found in Act 35.

1. Comments

PPL provided comments supporting the changes proposed in the NoPR and ANoFR to these sections. PPL NoPR Comments at 23, PPL ANoFR Comments at 30. PECO notes that various requirements of the interconnection provisions have been revised to indicate that qualifying facilities may be equal to or less than five megawatts. PECO believes that this designation will lead to confusion over the allowable nameplate capacities for commercial customers. PECO fears that applicants may mistakenly believe it is acceptable to interconnect a system between three and five megawatts without having to comply with the requirements and specifications emphasized in this rulemaking for large customer-generators. To avoid such misunderstandings, PECO recommends that the Commission revise the proposed regulations to clarify that systems with nameplate capacities between three and five megawatts are only allowable if they comply with the requirements set forth in the definition of customer-generator. PECO ANoFR Comments at 10-11.

FirstEnergy states that it has very serious concerns about the proposed changes to the level of review process for generators with electric nameplate capacities between two and five megawatts. The existing regulations call for Level 3 review for any application over two megawatts, whereas under the current proposal, virtually all applications greater than ten kilowatts, with the exception of rotating equipment, would be eligible for a Level 2 review. Reducing the level of review for projects exceeding two megawatts implicates the safety and reliability of an EDC's system, and suggests that this revision be rejected. FirstEnergy ANoFR Comments at 6-8.

2. Disposition

The Commission agrees with FirstEnergy that changing the interconnection review procedures for Level 2 small generation facilities to five megawatts as proposed in NoPR negatively impacts the safety and reliability of the EDC's system. Therefore, as defined in Section 75.34, the electric nameplate capacity rating for Level 2 interconnection review procedures will remain as two megawatts or less. As for

applicability and interconnection review procedures for Level 3 and 4, as described in Sections 75.31, 75.39 and 75.40, the electric name plate capacity ratings that shall be used are five megawatts or less, as proposed.

I. Interconnection: § 75.51. Disputes

The current regulations at § 75.51(c) provide that the Commission may designate a Department of Energy National Laboratory, PJM Interconnection L.L.C., or college or university with distribution system engineering expertise as a technical master. Once the Commission designates a technical master, the parties to a dispute are to use the technical master to help resolve the dispute.

To date the Commission has not designated a technical master. This is due to the fact that there are costs involved in identifying and retaining such expertise, which are not justified by the number of disputes. To date we are not aware of any interconnection disputes that have not been resolved through the normal Commission complaint or alternative dispute resolution processes. As such, we are proposing to delete this subsection.

1. Comments

PPL provided comments supporting the proposed changes in the NoPR regarding the removal of the technical master. PPL NoPR Comments at 23, PPL ANoFR Comments at 30.

Comments opposing the proposed changes were received from PennFuture and DWEA/UW. PennFuture NoPR Comments at 10, DWEA/UW NoPR Comments at 9, and PennFuture Energy Center NoPR Comments at 2. DWEA/UW states that it understands the Commission has not made use of its power to appoint a technical master, but nevertheless recommends that the Commission retain the provisions proposed for deletion. DWEA/UW is particularly concerned that residential customers and small

businesses are already at a disadvantage when faced with disputes regarding the technical application of the regulations and, with increasing complexity, this is expected to continue. For this reason, DWEA/UW asserts that it is premature to delete the provisions. Furthermore, DWEA/UW states that even if the Commission does not make use of its power to designate a technical master, that ability, and the ability of an appointed master to determine costs for the review, serves as an incentive for the parties to make effective use of the existing alternative dispute resolution process. DWEA/UW NoPR Comments at 9.

In its comments, the IRRC notes that given the potential for more disputes arising as a result of the implementation of this rulemaking, the IRRC questions the reasonableness of this change at this time and asks the Commission to provide a fiscal analysis of the costs associated with the designation by the Commission of a technical master. IRRC NoPR Comments at 8.

Opposing comments to the ANoFR regarding the removal of the technical master were received from PA IPL, PennFuture and the Joint Commentators. PA IPL and PennFuture state that it is not supporting the proposed deletion in Section 75.51(c) of the Commission's ability to appoint a technical master to assist in the resolution of any disputes under the interconnection application/review process. PennFuture understands the Commission has not made use of its power to appoint a technical master, but nevertheless sees no reason to cancel this authority. PennFuture is particularly concerned that residential customers and small businesses are already at a disadvantage when faced with disputes regarding the technical application of the regulations and, with increasing complexity, this is expected to continue. For this reason, PennFuture asserts that it is premature to delete the provisions. PA IPL ANoFR Comments at 3. PennFuture ANoFR Comments at 2.

The Joint Commentators state that although the technical master provision has not been used thus far, that is not a sufficient reason to remove the option altogether. The Joint Commentators assert that removing the technical master option hurts residential owners and small businesses who likely cannot afford to hire an attorney or a technical expert to represent them if there is ever a dispute over their generation amount, net metering, etc. The Joint Commentators state that considering the complexity that an additional percentage based cap and the virtual net metering physical aggregation requirement creates, generators are more likely to see an issue arise than under the old rule. The Joint Commentators assert that having a technical master serve as a mediator is a valuable option that needs to remain in the regulation. Joint Commentators ANoFR Comments at 12-13.

2. Disposition

After reviewing all comments, the Commission is not convinced that having the option to designate a technical master as a mediator is in fact necessary. To date we are not aware of any interconnection disputes that have not been resolved through the normal Commission complaint or alternative dispute resolution processes. The assertions by PennFuture, Pa IPL and the Joint Commentators are misplaced for several reasons. Initially, it must be noted that the current regulation does not eliminate the costs borne by those seeking a review by a technical master as opposed to hiring their own experts. The current regulations simply require the Commission to approve the costs for the technical master to be borne by those customers who seek such a review.

Furthermore, the technical master would only review the actual physical interconnection of the generation system with the distribution system. The technical master has no role in determining whether the generation owner qualifies for net metering as PennFuture and the Joint Commentators suggest. The current regulation specifically states that "[u]pon designation, the parties shall use the technical master to resolve disputes related to *interconnection*." 52 Pa. Code § 75.51 (relating to disputes) (emphasis

added). The physical interconnection only gets more complicated as the size of the generator increases and applies to all generators, whether they qualify for net metering or not. Accordingly, the provisions of this rulemaking related to net metering have no bearing on the complexity or costs of the physical interconnection as PennFuture and the Joint Commentators imply.

Regarding IRRC's request that we provide a fiscal analysis of the costs associated with designating a technical master, we are unable to provide such data. As this provision has never been used, and the Commission has never reviewed or approved any costs for a technical master, the Commission has no information or experience to base such an analysis. Furthermore, we note that the costs are likely to vary depending on the experience level of the chosen technical master and the time, as well as any travel and lodging expenses, the technical master would devote to any individual dispute. In light of these variables and the lack of available relevant data, any fiscal analysis or projection the Commission would provide on this issue would be speculative at best. For these reasons, we adopt the deletion of this subsection.

J. Alternative Energy Portfolio Requirement: § 75.61. EDC And EGS Obligations

This section has been revised to note that the requirements are subject to the quarterly adjustment provisions of Act 129 of 2008. *See* 66 Pa. C.S. § 2814(c).

Comments supporting the proposed changes in the NoPR regarding this section were received from FirstEnergy and PPL. FirstEnergy supports the changes, it, however, feels that additional revisions are necessary to make the compliance process more accurate, administratively convenient and financially stable. FirstEnergy NoPR Comments at 8, PPL NoPR Comments at 23, PPL ANoFR Comments at 30.

No opposing comments were received to Section 75.61(b). IRRC's and other commentators' concerns regarding any impact on current owners of credits is addressed below under Section L. As such, we adopt the proposed language that the alternative energy portfolio requirements are subject to the quarterly adjustment provisions of Act 129 of 2008.

K. Alternative Energy Portfolio Requirement: § 75.62. Alternative Energy System Qualification

Section 75.62(g) has been added to note that alternative energy system status may be suspended or revoked for violations of the provisions of this chapter. The penalty provision is primarily intended to discourage and, if necessary, punish fraudulent behavior by owners of alternative energy systems. While this authority was implied in the current regulations, we propose adding this provision to make this authority explicit to provide clarity.

Comments supporting the proposed changes in the NoPR regarding this section were received from FirstEnergy and PPL. FirstEnergy NoPR Comments at 8, PPL NoPR Comments at 23, PPL ANoFR Comments at 30.

No opposing comments were received to Section 75.62(g). As such, we adopt the proposed language that alternative energy system status may be suspended or revoked for violations of the provisions of this chapter.

L. Alternative Energy Portfolio Requirement: § 75.63. Alternative Energy Credit Certification

Section 75.63(g) has been supplemented with a proposed end to the use of estimates for future small solar photovoltaic systems and to clarify when estimated readings may be used by existing small solar photovoltaic systems. To begin with, the revision provides that small solar photovoltaic systems installed or that increase capacity

on or after 180 days from the effective date of the regulation must use metered data to verify alternative energy credit certification. In adopting the current regulations, we allowed for the use of estimates for small solar photovoltaic systems of 15 kilowatts or less to reduce the cost of installing and operating such systems. Since then, the cost of solar photovoltaic panels have decreased such that the minimal cost of a revenue grade meter no longer provides a barrier to the installation of these small systems. As such, we propose to require all new solar photovoltaic systems to have a revenue grade meter to measure system output for alternative energy credit certification.

The other revisions to Section 75.63(g) provide that estimated reads may be used for existing small solar photovoltaic systems only when no other technology is available, and that once actual metered data begins to be used, estimates are no longer permitted. The revision also prevents estimated data in the context of panels whose orientation can be manually adjusted by the owner/operator, given the problems associated with production verification in this circumstance. Finally, the revisions define the solar modules that are eligible for use with estimates and provide the program administrator express authority to verify the output of those systems.

Three additional subsections have been added in order to resolve issues that have been identified in implementation of the Act. Subsection (i) has been added to clarify that credits can be certified from the time the application is filed with the Commission, so long as either metered data is available, or an inverter reading is included when PV Watts estimates are permitted to be used. This is done to avoid penalizing an applicant for the time it takes the administrator to review and approve the application.

Subsection (j) is being proposed to address incomplete or incorrect applications. The Commission's preference is that the program administrator give an applicant a reasonable period of time, at the administrator's discretion depending on the nature of the issue, to correct the deficiency before rejecting the application. When an application is

rejected, the applicant is penalized because the applicant loses the opportunity to earn credits for the period when the application was first filed to the time when it was rejected. Credits may only be earned from the time of the filing of the second application. This section puts applicants on notice of the importance of filing a complete and correct application, the need to timely respond to the administrator's notice to them, and the penalty for failing to do so.

Subsection (k) has been added to resolve an ambiguity over the vintage of alternative energy credits. Generally, credits may only be banked for use for two years. It is therefore necessary that the right vintage year be assigned to a credit, as documented by the certificate created in PJM-EIS's credit registry, the Generator Attribute Tracking System (GATS). Sometimes data may be entered in the credit registry for production that overlaps two different reporting periods. This section confirms that credits will be allocated to the appropriate reporting period, regardless of when the data is entered into the credit registry.

1. Comments To Section 75.63(g)

Comments supporting the changes proposed in the NoPR to Section 75.63(g) were received from PPL and FirstEnergy. PPL NoPR Comments at 24, FirstEnergy NoPR Comments at 9. PPL states in its comments that it generally supports this proposal. PPL, however, notes that with respect to using estimated data for small systems, there must be a limit implemented as to what it means to have or not have the technology to capture this data. PPL also recommends including a provision that the cost for any additional metering requested by a customer-generator be the responsibility of the customer-generator. PPL NoPR Comments at 24, PPL ANoFR Comments at 31.

Comments opposing the changes to Section 75.63(g) were received from SEF and SRECTrade. SEF NoPR Comments at 2, SRECTrade NoPR Comments at 6-8. SRECTrade states that this section has been supplemented with a proposed end to the use

of estimates for future small solar photovoltaic systems and to clarify when estimated readings may be used by existing small solar photovoltaic systems. SRECTrade suggests that the language should be modified to clarify that all facilities *greater than* 15 kW shall be verified using metered data, and that facilities 15 kW or less may be verified using either metered data or estimates. SRECTrade recognizes that the Commission intended to propose these revisions in an effort to require all new solar photovoltaic systems to have a revenue grade meter to measure system output, but SRECTrate asserts that this requirement is far more burdensome than the cost of a revenue grade meter alone. SRECTrade argues that while the cost of a revenue grade meter may have decreased in recent years, the burden of requiring small systems to report their generation in lieu of utilizing estimates has not changed. SRECTrade asserts that this requirement will have the impact of discouraging small systems from obtaining alternative energy credit certification or deterring existing facilities from expanding. SRECTrade NoPR Comments at 6-8.

2. Disposition To Section 75.63(g)

The Commission disagrees with SRECTrade that the requirement that all new alternative energy systems be metered, including small solar photovoltaic systems with a nameplate capacity of 15 kW or less, will unreasonably burden the development of such systems. We find that the metering is necessary to ensure that all systems are actually producing generation and that the generation amount is accurately reported. The use of estimates provides an average output, at best, for these systems that may be higher or lower than the actual system output. We note that inverter readings for these small systems are acceptable meter data, as the inverters accurately measure the output, eliminating any cost concerns related to purchasing a revenue grade electric meter. While there may be some inconvenience imposed on system owners to read and report the meter readings, the Commission is not convinced that the inconvenience is unreasonable. We further note that owners of alternative energy systems are not required to participate in alternative energy credit (AEC) markets, and are free to pick and choose

when to participate based on many reasons, including the effort involved in reporting system output and the price they get for the AECs they generate. Finally, we note that systems with a nameplate capacity of just over 15 kW have always been required to use metered data, and we find that the metering requirement is no more burdensome than that placed on these other small systems.

In conclusion, we find that the benefit of more accurate generation output readings results in more reliable and accurate AECs and outweighs the minimal cost and inconvenience this new requirement imposes. For these reasons, we adopt Section 75.63(g) as proposed.

3. Disposition To Sections 75.63(i), (j) And (k)

FirstEnergy provided comments supporting the changes proposed in the NoPR to Section 75.63(i). FirstEnergy NoPR Comments at 9. No other comments were received regarding changes to these subsections.

Accordingly, we adopt the proposed language to Section 75.63(i) clarifying that credits can be certified from the time the application is filed with the Commission, so long as either metered data is available, or an inverter reading is included when PV Watts estimates are permitted to be used. In addition, we adopt the proposed language to Sections 75.63(j) and (k).

M. Alternative Energy Portfolio Requirement: § 75.64. Alternative Energy Credit Program Administrator

We have added provisions to Section 75.64(b) to note that alternative energy system status may be suspended or revoked and that the credits from a suspended or revoked system may be withheld or retired for violations of the provisions of this chapter. The penalty provision is primarily intended to discourage, and if necessary, punish, fraudulent behavior by owners or aggregators of alternative energy systems. While this

authority was implied in the current regulations, we propose adding this provision to make this authority explicit to provide clarity.

In Section 75.64(c) we have proposed revisions that more accurately reflect the current reporting requirements, timing and processes for determining and verifying EDC and EGS compliance with the AEPS Act obligations.

Finally, in Section 75.64(d) we have proposed a provision that expressly states that the program administrator may not certify an alternative energy credit that does not meet the requirements of § 75.63 (relating to alternative energy credit certification). This provision is being proposed to provide explicit authority to the program administrator that was previously implied.

1. Comments To Section 75.64(b)

PPL provided comments supporting the changes proposed in the NoPR to Section 75.64(b). PPL NoPR Comments at 24, PPL ANoFR Comments at 31.

PECO and FirstEnergy provided comments opposing the changes proposed in the NoPR to Section 75.64(b). PECO states that it appreciates the Commission's desire to clarify the authority of the program administrator with respect to non-compliant alternative energy systems. PECO, however, has concerns regarding the Commission's proposal to authorize retirement of past or current alternative energy credits (AECs) which are deemed to have been generated from non-compliant systems after they have been qualified. If the AECs at issue have already been qualified and transferred to a third party, the unexpected retirement of those AECs would not only punish the non-compliant system but also the current owner of the AECs. PECO believes that the simplest solution would be to provide that the program administrator has authority to take action only with respect to AECs that have not been sold or otherwise transferred to a third party. PECO asserts that the administrator would still be able to address non-compliance by

suspending or revoking system status and withholding or retiring AECs that are still owned by the owner of the non-compliant system. PECO NoPR Comments at 11-12, PECO ANoFR Comments at 11-12.

FirstEnergy agrees with the Commission's proactive approach to addressing fraudulent AEC supplier practices; it, however, contends that the prescribed punishment must be careful not to impact innocent market participants. For instance, FirstEnergy notes that where AECs have been purchased and used, or are going to be used for compliance, having the AECs invalidated could place a huge financial and regulatory burden on market participants who have transacted for properly certified AECs for use at the time of purchase. FirstEnergy suggests that, in order to avoid potential undue harm to innocent parties, AECs from a facility that has been deemed non-compliant but which have already been sold and transferred from the seller's account to the purchaser remain valid for compliance use by the purchaser. FirstEnergy goes on to state that current AECs that have not been sold and transferred, as well as future AECs, would be addressed as defined within the rulemaking. FirstEnergy also suggests that the Commission consider a financial penalty, including the disgorgement of profits from the fraudulent seller, for AECs that have already been sold and transferred in order to create a disincentive for such action without impacting innocent market participants. FirstEnergy NoPR Comments at 9-10.

IRRC states that commentators have expressed concern with how alternative energy credits which are deemed to have been generated from non-complaint alternative energy systems will be treated. The concern is that current owners of the credits could be unfairly penalized for the non-compliance by an alternative energy system. This would have a negative impact on the current owner of the credit. To provide regulatory stability, the IRRC recommends that the Commission clarify how these credits will be treated. IRRC NoPR Comments at 8.

2. Disposition To Section 75.64(b)

Regarding concerns raised by IRRC, PECO and FirstEnergy, we initially note that that this provision simply identifies, for all interested parties, the possible actions the program administrator has authority to take regarding AECs. It does not dictate what action is to be taken in all fact patterns. The specific action the program administrator takes will be determined on a case-by-case basis dependent on the facts in each case, including whether the credits have been transferred to a third-party. We further note that any decision of the program administrator may be appealed to the Commission consistent with Section 5.44 (relating to petitions for appeal from actions of staff) of our Regulations. *See* 52 Pa. Code § 75.64(e). This subsection gives all interested parties notice to include provisions in contracts to account for these possible outcomes. Furthermore, we note that instances when such action can be taken by the program administrator involve situations where the validity of the credits produced or being produced is in question. In short, these provisions are being put in place to put all parties on notice that the Commission will not tolerate inappropriate manipulation of the AEC market. We find that this provision will provide greater confidence to purchasers of AECs that the credits they purchase are valid.

Regarding FirstEnergy's suggestion that the Commission include a provision for penalties or the disgorgement of profits for system owners or aggregators that acted fraudulently, we find no provision, and FirstEnergy has not identified any provision, in the AEPS Act or the Public Utility Code giving the Commission such authority. We find that the remedies FirstEnergy seeks are best left to the contracting parties to account for and for the courts to determine. Accordingly, we adopt the changes to Section 75.64(b) as proposed.

3. Comments To Section 75.64(c)

PECO provided comments opposing the changes proposed for Section 75.64(c). PECO states that under this proposed section, the AEPS program administrator would

notify EDCs and EGSs of their compliance obligations within 45 days of the end of the reporting period and verify compliance at the end of the 90-day true-up period. PECO recommends that an initial compliance assessment by the program administrator between day 46 and day 75 of the true-up period be added to the current assessment process. PECO asserts that this initial assessment would alert EDCs and EGSs of any impending AEC shortfall and also offer an opportunity for EDCs and EGSs to adjust their retirement portfolios in the last 15 days of the true-up period to reduce the risk of an alternative compliance payment. PECO NoPR Comments at 12-13, PECO ANoFR Comments at 12.

Comments submitted to the ANoFR, opposing the changes proposed to Section 75.64(c) were received from Duquesne and PECO. Duquesne ANoFR Comments at 4. PECO ANoFR Comments at 12. Duquesne recommends that the program administrator provide the EDCs and EGSs with an initial assessment of their compliance status prior to the program administrator's determination of compliance at the end of the true-up period. Duquesne asserts that such an initial assessment would provide the EDCs and EGSs with notice of potential issues and give them an opportunity to cure and adjust their alternative energy credits that may be used for compliance to reduce the risk of having to make alternative compliance payments. Duquesne ANoFR Comments at 4.

4. Disposition To Section 75.64(c)

We reviewed all NoPR and ANoFR comments in reference to the proposed changes and are not persuaded that an initial assessment of the EDC and EGS compliance status prior to the program administrator's determination of compliance at the end of the true-up period is necessary. The Commission is merely clarifying timing and processes to determine and verify compliance with the AEPS Act obligations that are currently in use. We also note that based on past experience, the vast majority of EGSs have not retired credits to their Pennsylvania account until near the end of the 90 day true-up period, making any assessment 46 to 75 days into the true-up period pointless.

Furthermore, we note that the program administrator[14] is to be available to respond to questions and inquiries from all interested stakeholders, including EGSs and EDCs. As such, EGSs and EDCs are free to contact the program administrator any time before, during and after the true-up period the get the confirmation PECO and FirstEnergy seek. We find that EGSs and EDCs are run by sophisticated individuals who have the knowledge, information and experience to determine how and when to purchase and retire the appropriate amount of credits and confirm their compliance with the AEPS Act requirements. Accordingly, the language in Section 75.64(c) is hereby adopted as proposed.

5. Disposition To Section 75.64(d)

No comments opposing or supporting the changes proposed in the NoPR to Section 75.64(d) were received. As such, we adopt the proposed language to Sections 75.64(d) that expressly states that the program administrator may not certify an alternative energy credit that does not meet the requirements of § 75.63 (relating to alternative energy credit certification).

N. Alternative Energy Portfolio Requirement: § 75.65. Alternative Compliance Payments

In this section we are clearly identifying the Commission's Bureau of Technical Utility Services as the Bureau with the responsibility of providing notice of and processing alternative compliance payments.

PPL provided comments supporting the changes proposed for Section 75.65. PPL NoPR Comments at 24, PPL ANoFR Comments at 31. No other comments regarding this were received. Accordingly, we adopt the proposed language identifying the

[14] The Commission has the statutory authority under the AEPS Act to approve the independent entity that serves as the program administrator. 73 P.S. § 1648.3(e)(1).

Commission's Bureau of Technical Utility Services as the Bureau with the responsibility of providing notice of and processing alternative compliance payments.

O. Alternative Energy Portfolio Requirement: § 75.71 And § 75.72. Quarterly Adjustment of NonSolar Tier I Obligation

In 2008, the General Assembly again amended the AEPS Act[15] by adding two new Tier I resources and requiring the Commission to increase the percentage share of Tier I requirements on a quarterly basis to reflect the addition of the new Tier I resources, which was codified in 66 Pa.C.S. § 2814. The Commission issued an Order to implement the AEPS related provisions of Act 129 in 2009. *See*, *Implementation of Act 129 of 2008 Phase 4 – Relating to the Alternative Energy Portfolio Standards Act*, Docket M-2009-2093383 (Order entered May 28, 2009). This rulemaking will also codify the processes and standards identified in that Order in this Chapter at Sections 75.71 and 75.72.

1. Disposition Of Section 75.71

PPL submitted comments supporting the language proposed in the NoPR to Section 75.71. PPL NoPR Comments at 24-25. No other comments were received regarding Section 75.71. Accordingly, we adopt Section 75.71 as proposed.

2. Comments to Section 75.72

PPL submitted comments supporting the proposed Section 75.72 with suggestions. PPL submits that there has been an ongoing issue with the annual alternative energy reporting requirements set forth in the existing regulations and reiterated in the NoPR. Specifically, PPL notes that the final end of year load numbers for EDCs and EGSs are due by June 30, one month after the end of the June-May period with no additional data being accepted after this date. PPL, however, notes that at this time final settlement data for the April and May periods are not available. PPL asserts that this data has a direct

[15] *See* P.L. 1592, No. 129 of 2008.

impact on the number of alternative energy credits required to obtain compliance for that year. PPL states that in some instances this leaves EDCs and EGSs with a shortfall based upon how bundled contracts are written. PPL recommends that the alternative energy credit reporting deadline be extended to 70 days after the year end to allow for final settlement values to be submitted, and that the compliance deadline be extended from August 30 to September 30 to accommodate the extended alternative energy credit reporting deadline. PPL NoPR Comments at 31-32.

FirstEnergy submitted comments opposing the proposed Section 75.72 with suggestion. Specifically, with respect to the reporting requirements for the quarterly adjustment of nonsolar Tier I obligations under subsections (a) and (b), FirstEnergy notes that the proposed practices in some cases impose a more strict time constraint than what exists today. FirstEnergy asserts that such a narrowing of deadlines will create a greater burden on EDCs and EGSs to comply. In subsection (a)(1)-(4), FirstEnergy suggests that the reporting dates be extended by five calendar days beyond the proposed due dates to November 5, February 5, May 5 and July 5. This extension, FirstEnergy asserts, would address the reporting time constraints associated with the PJM 60-day reconciliation process. For subsection (a)(4) FirstEnergy notes that the 4th quarter data (March, April, May) due 30 days following the end of the quarter means that the May data must always be estimated. FirstEnergy suggests that if the Commission were to move the compliance period to a deadline of September 30 or October 5, EDCs could provide reconciled data for the entire compliance year. Finally, in subsections (b)(1)-(4) FirstEnergy suggests a modification of the sales data verification process to a least five business days in order to continue their current practices and ensure that sales data is properly validated and accurately reported. FirstEnergy NoPR Comments at 10-12.

PPL and EAP submitted comments opposing Section 75.72. PPL ANoFR Comments at 32, EAP ANoFR Comments at 5-6. PPL disagrees with the reporting requirement proposed in Section 75.72, mandating EDCs to report EDC and EGS load

data. PPL states that EGSs provide retail competitive electric generation supply to end-use shopping customers. PPL asserts that the Commission's proposal to require EDCs to report EGS load data is extremely burdensome, time consuming, and ultimately shifts the EGSs' burden to report *their* customers' load and usage. PPL recommends that the Commission amend this provision to mandate that each load serving entity (LSE) be obligated to provide their own monthly load values. PPL suggest that the Commission may contact the EDC for support in instances only where an EGS does not provide their values in time or in instances where the Commonwealth believes the EGS reported value may be incorrect. PPL also believes the quarterly reporting periods should be changed to 65 days after the conclusion of the quarterly period. This additional time, PPL asserts, will allow all LSEs to report verified Settlement B values for all four quarterly periods. PPL also recommends that the LSE transfer date of AECs to the State Account be moved from August 30 to September 30 if the Commonwealth believes it needs additional time to review credit transfers. PPL ANoFR Comments at 32.

EAP asserts that EDCs typically only report exceptions, not all monthly retail sales for each EGS, on a quarterly basis. EAP states that to do so for all sales would become administratively burdensome, particularly in those EDCs service territories where dozens or more EGSs are licensed to provide supply. EAP states that the onus for this report should fall on the individual EGS. If the Commission were to keep this suggested reporting requirement as proposed, EAP suggests that EDCs would need an additional five calendar days to accommodate the PJM reconciliation process. Similarly, EAP suggests that the Commission's recommendation for EGS verification of monthly sales data also be adjusted. EAP notes that the current practice the review is afforded five business days. EAP suggests codifying the informal practice of five business days in order to continue current procedures and ensure that the sales data is properly validated. EAP ANoFR Comments at 5-6.

3. Disposition For Section 75.72

After reviewing all NoPR and ANoFR comments received in regards to the reporting requirements for quarterly adjustment of nonsolar Tier I obligations, the Commission agrees that extending the reporting time by five days beyond the proposed dates is reasonable. Therefore, the following time frames are hereby adopted: First quarter (June, July and August) due by November 4, second quarter (September, October and November) due by February 4, third quarter (December, January and February) due by May 5.

Regarding suggestions that the Commission extend the fourth quarter and the compliance deadline date from August 30 to September 30, we decline to do so due to administrative burdens related to the statutory deadline. The AEPS Act sets the true-up period as the end of the compliance year, May 31, until September 1. *See* 73 P.S. § 1648.2 (definition of true-up period). This true-up period is to provide EDCs and EGSs "the ability to obtain the required number of alternative energy credits or to make up any shortfall of the alternative energy credits they may be required to obtain to comply with [the AEPS Act]." 73 P.S. § 1648.3(e)(5). Extending the fourth quarter reporting period would extend the date when the program administrator could provide the final AEC requirements for each EDC and EGS, giving even less time for EDCs and EGSs to acquire and reserve the appropriate number of credits during the true-up period. Extending the deadline for final compliance determination to September 30 would not provide any benefit as the EGSs or EDCs would have no opportunity to true-up their accounts. For these reasons, we decline to adopt this suggestion.

Regarding the concerns raised by PPL and EAP about reporting EGS load data, we note that it is the EDC that has this meter data and reports it to PJM for settlement. The Commission is not asking for any other data. Also, we note that, to date, all other EDCs have been able to provide this data in a timely manner. In fact, PPL has also provided this data at times, when asked, as it suggested, to verify EGS data. We also find it significant that this data has been requested of and provided by EDCs since 2009, giving

PPL more than five years to devise a process to provide the data. Finally, we note that the sooner the program administrator obtains data regarding all load, the sooner the quarterly adjustments can be computed and the sooner the EDCs and EGSs can be informed of their nonsolar Tier I requirements. Accordingly, we find that this requirement does not impose an undue burden on the EDCs.

CONCLUSION

Accordingly, under 66 Pa. C.S. §§ 501, 1501, 2807(e), Sections 1648.7(a) and 1648.3(e)(2) of the Alternative Energy Portfolio Standards Act of 2004, 73 P.S. §§ 1648.7(a),1648.3(e)(2); the Commonwealth Documents Law, 45 P.S. §§ 1201 *et seq.*, and the regulations promulgated hereunder at 1 Pa. Code §§ 7.1, 7.2, and 7.5, the Commission adopts the revisions to its regulations pertaining to the alternative energy portfolio standard obligation, and its provisions for net metering and interconnection, as noted and set forth in Annex A; **THEREFORE**,

IT IS ORDERED:

1. That the regulations at 52 Pa. Code Chapter 75 are amended as set forth in Annex A.

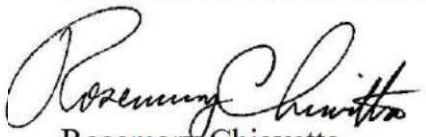
2. That a copy of this order and Annex be served on the Pennsylvania Department of Environmental Protection, all jurisdictional electric distribution companies, the Office of Consumer Advocate, the Office of Small Business Advocate, the Commission's Bureau of Investigation and Enforcement, the Energy Association of Pennsylvania, the Retail Energy Supply Association and the parties in the matter of *Larry Moyer v. PPL Electric Utilities Corp.*, at Docket No. C-2011-2273645.

3. That the Law Bureau shall deposit this order, Annex A and Annex B with the Legislative Reference Bureau for publication in the *Pennsylvania Bulletin.*

4. That these regulations shall become effective upon publication in the *Pennsylvania Bulletin*.

5. That the contact person for technical issues related to this rulemaking is Scott Gebhardt, Bureau of Technical Utility Services, 717-787-2139. That the contact person for legal issues related to this rulemaking is Kriss Brown, Assistant Counsel, Law Bureau, 717-787-4518. Alternate formats of this document are available to persons with disabilities and may be obtained by contacting Alyson Zerbe, Regulatory Coordinator, Law Bureau, 717-772-4597.

BY THE COMMISSION



Rosemary Chiavetta
Secretary

(SEAL)

ORDER ADOPTED: October 27, 2016

ORDER ENTERED: October 27, 2016

Annex A

TITLE 52. PUBLIC UTILITIES

PART I. PUBLIC UTILITY COMMISSION

Subpart C. FIXED SERVICE UTILITIES

CHAPTER 75. ALTERNATIVE ENERGY PORTFOLIO STANDARDS

Subchapter A. GENERAL PROVISIONS

§ 75.1. Definitions.

The following words and terms, when used in this chapter, have the following meanings unless the context clearly indicates otherwise:

Act—The Alternative Energy Portfolio Standards Act (73 P. S. §§ 1648.1—1648.8 **AS AMENDED BY 66 PA. C.S. § 2814**).

***Aggregator*—A person or entity that maintains a contract with ~~an~~ MULTIPLE individual alternative energy system ~~owner~~OWNERS to facilitate the sale of alternative energy credits on behalf of multiple alternative energy system owners.**

Alternative energy credit—A tradable instrument that is used to establish, verify and monitor compliance with the act. A unit of credit must equal 1 megawatt hour of electricity from an alternative energy source. An alternative energy credit shall remain the property of the alternative energy system until the alternative energy credit is voluntarily transferred by the alternative energy system.

Alternative energy sources—The term includes the following existing and new sources for the production of electricity:

* * * * *

(v) Low-impact hydropower consisting of any technology that produces electric power and that harnesses the hydroelectric potential of moving water impoundments**[, provided the incremental hydroelectric development] if one of the following applies**:

(A) The hydropower source has a Federal Energy Regulatory Commission (FERC) licensed capacity of 21 MW or less and was issued its license by January 1, 1984, and was held on July 1, 2007, in whole or in part, by a municipality located wholly within this Commonwealth or by an electric cooperative incorporated in this Commonwealth.

(B) The incremental hydroelectric development:

[(A)] (I) Does not adversely change existing impacts to aquatic systems.

[(B)] **(II)** Meets the certification standards established by the low impact hydropower institute and American Rivers, Inc., or their successors.

[(C)] **(III)** Provides an adequate water flow for protection of aquatic life and for safe and effective fish passage.

[(D)] **(IV)** Protects against erosion.

[(E)] **(V)** Protects cultural and historic resources.

(VI) WAS COMPLETED AFTER THE EFFECTIVE DATE OF THE ALTERNATIVE ENERGY PORTFOLIO STANDARDS ACT.

(vi) Geothermal energy, which means electricity produced by extracting hot water or steam from geothermal reserves in the earth's crust and supplied to steam turbines that drive generators to produce electricity.

(vii) Biomass energy, which means the generation of electricity utilizing the following:

(A) Organic material from a plant that is grown for the purpose of being used to produce electricity or is protected by the Federal Conservation Reserve Program (CRP) and provided further that crop production on CRP lands does not prevent the achievement of the water quality protection, soil erosion prevention or wildlife enhancement purposes for which the land was primarily set aside.

(B) Solid nonhazardous, cellulosic waste material that is segregated from other waste materials, such as waste pallets, crates and landscape or right-of-way tree trimmings or agricultural sources, including orchard tree crops, vineyards, grain, legumes, sugar and other byproducts or residues.

(C) Generation of electricity utilizing by-products of the pulping process and wood manufacturing process, including bark, wood chips, sawdust and lignin in spent pulping liquors from alternative energy systems located in this Commonwealth.

(viii) Biologically derived methane gas, which includes methane from the anaerobic digestion of organic materials from yard waste, such as grass clippings and leaves, food waste, animal waste and sewage sludge. The term also includes landfill methane gas.

* * * * *

(xiii) Distributed generation systems, which means the small-scale power generation of electricity and useful thermal energy **from systems with a nameplate capacity not greater than 5 MW**.

* * * * *

Customer-generator—A **retail electric customer that is a** nonutility owner or operator of a net metered distributed generation system with a nameplate capacity of not greater than 50 kilowatts if installed at a residential service or not larger than 3,000 kilowatts at other customer service locations, except for customers whose systems are above 3 megawatts and up to 5 megawatts who make their systems available to operate in parallel with the electric utility during grid emergencies as defined by the regional transmission organization or where a microgrid is in place for the primary or secondary purpose of maintaining critical infrastructure, such as homeland security assignments, emergency services facilities, hospitals, traffic signals, wastewater treatment plants or telecommunications facilities, provided that technical rules for operating generators interconnected with facilities of an EDC, electric cooperative or municipal electric system have been promulgated by the institute of electrical and electronic engineers and the Commission.

***DSP—Default service provider*—An EDC within its certified service territory or an alternative supplier approved by the Commission that provides generation service when one of the following conditions occurs:**

(i) A contract for electric power, including energy and capacity, and the chosen EGS does not supply the service to a retail electric customer.

(ii) A retail electric customer does not choose an alternative EGS.

Department—The Department of Environmental Protection of the Commonwealth.

* * * * *

Force majeure—

* * * * *

(iv) If the Commission modifies the EDC or EGS obligations under the act, the Commission may require the EDC or EGS to acquire additional alternative energy credits in subsequent years equivalent to the obligation reduced by a force majeure declaration when the Commission determines that sufficient alternative energy credits exist in the marketplace.

***Grid emergencies*—~~One of the following abnormal system conditions:~~AN EMERGENCY CONDITION AS DEFINED IN THE PJM INTERCONNECTION, LLC, OPEN ACCESS TRANSMISSION TARIFF OR SUCCESSOR DOCUMENT.**

~~**(i) Manual or automatic action to maintain system frequency to prevent loss of firm load, equipment damage or tripping of system elements that could adversely affect the reliability of an electric system or the safety of persons or property.**~~

~~**(ii) Capacity deficiency or capacity excess conditions.**~~

~~(iii) A fuel shortage requiring departure from normal operating procedures to minimize the use of the scarce fuel.~~

~~(iv) An abnormal natural event or manmade threat that would require conservative operations to posture the system in a more reliable state.~~

~~(v) An abnormal event external to the PJM service territory that may require PJM action.~~

kW—Kilowatt—A unit of power representing 1,000 watts. A kW equals 1/1000 of a MW.

MW—Megawatt—A unit of power representing 1,000,000 watts. An MW equals 1,000 kWs.

***Microgrid*—A system analogous to the term distributed resources (DR) island system, when parts of the electric ~~grid that~~ DISTRIBUTION SYSTEM have DR and CRITICAL INFRASTRUCTURE load IN SUCH A COMBINATION SO AS TO GIVE THE EDC ~~have~~ the ability to SAFELY AND intentionally disconnect THAT SECTION OF THE DISTRIBUTION SYSTEM from THE REST OF THE DISTRIBUTION SYSTEM and operate IT AS AN ISLAND DURING EMERGENCY SITUATIONS~~in parallel with electric power systems.~~**

***Moving water impoundment*—A physical feature that confines, restricts, diverts or channels the flow of surface water, including in-stream hydroelectric generating technology and equipment.**

Municipal solid waste—The term includes energy from existing waste to energy facilities which the Department has determined are in compliance with current environmental standards, including the applicable requirements of the Clean Air Act (42 U.S.C.A. §§ 7401—7671q) and associated permit restrictions and the applicable requirements of the Solid Waste Management Act (35 P. S. §§ 6018.101—6018.1003).

RTO—Regional transmission organization—An entity approved by the **[Federal Energy Regulatory Commission (FERC)] FERC** that is created to operate and manage the electrical transmission grids of the member electric transmission utilities as required under FERC Order 2000, Docket No. RM99-2-000, FERC Chapter 31.089 (1999) or any successor organization approved by the FERC.

* * * * *

Tier II alternative energy source—Energy derived from:

* * * * *

(vi) Generation of electricity utilizing by-products of the pulping process and wood manufacturing process, including bark, wood chips, sawdust and lignin in spent pulping liquors **from alternative energy systems located outside this Commonwealth**.

(vii) Integrated combined coal gasification technology.

True-up period—The period each year from the end of the reporting year until September 1.

Useful thermal energy—

(i) Thermal energy created from the production of electricity which would otherwise be wasted if not used for other nonelectric generation, beneficial purposes.

(ii) The term does not apply to the use of thermal energy used in combined-cycle electric generation facilities.

Utility—**A BUSINESS, person or entity WHOSE PRIMARY PURPOSE, CHARACTER, OR NATURE IS THE ~~that provides electric~~ generation, transmission, ~~or~~ distribution OR SALE OF ELECTRICITY ~~services,~~ at wholesale or retail, ~~to other persons or entities.~~ THIS TERM EXCLUDES BUILDING OR FACILITY OWNERS OR OPERATORS THAT MANAGE THE INTERNAL DISTRIBUTION SYSTEM SERVING SUCH BUILDING OR FACILITY AND THAT SUPPLY ELECTRIC POWER AND OTHER RELATED POWER SERVICES TO OCCUPANTS OF THE BUILDING OR FACILITY.**

Subchapter B. NET METERING

§ 75.12. Definitions.

The following words and terms, when used in this subchapter, have the following meanings unless the context clearly indicates otherwise:

* * * * *

Virtual meter aggregation—The combination of readings and billing for all meters regardless of rate class on properties owned or leased and operated by a customer-generator by means of the EDC's billing process, rather than through physical rewiring of the customer-generator's property for a physical, single point of contact. Virtual meter aggregation on properties owned or leased and operated by **[a] the same** customer-generator and located within 2 miles of the boundaries of the customer-generator's property and within a single **[electric distribution company's] EDC's** service territory shall be eligible for net metering. **Service locations to be aggregated must be EDC SERVICE LOCATION ACCOUNTS, HELD BY THE SAME INDIVIDUAL OR LEGAL ENTITY, receiving retail electric service from the same EDC and have measureable electric load independent of the alternative energy system. To be independent of the alternative energy system, the electric load must have a purpose**

other than to support the operation, maintenance or administration of the alternative energy system.

Year and yearly—**[Planning year as determined by the PJM Interconnection, LLC regional transmission organization.] The period of time from ~~May~~JUNE 1 through ~~April~~MAY ~~30~~31.**

§ 75.13. General provisions.

(a) EDCs **and DSPs** shall offer net metering to customer-generators that generate electricity on the customer-generator's side of the meter using Tier I or Tier II alternative energy sources, on a first come, first served basis. **To qualify for net metering, the customer-generator shall meet the following conditions:**

(1) Have electric load, independent of the alternative energy system, behind the meter and point of interconnection of the alternative energy system. To be independent of the alternative energy system, the electric load must have a purpose other than to support the operation, maintenance or administration of the alternative energy system.

(2) The owner or operator of the alternative energy system may not be a utility.

~~(3) The alternative energy system must be sized to generate no more than 110%~~200% ~~of the customer-generator's annual electric consumption at the interconnection meter location when combined with all qualifying virtual meter aggregation locations.~~

~~(4) The~~ The alternative energy system must have a nameplate capacity of not greater than 50 kW if installed at a residential service location.

~~(5)~~(4) The alternative energy system must have a nameplate capacity not larger than 3 MW at other customer service locations~~.~~, EXCEPT WHEN THE ALTERNATIVE ENERGY SYSTEM HAS A NAMEPLATE CAPACITY NOT LARGER THAN 5 MW AND MEETS THE CONDITIONS IN § 75.16 (RELATING TO LARGE CUSTOMER-GENERATORS).

~~(6) The alternative energy system must have a nameplate capacity not larger than 5 MW and meets the conditions in § 75.16 (relating to large customer-generators).~~

~~(7)~~(5) An alternative energy system with a nameplate capacity of 500 kW or more must have Commission approval ~~for~~TO net ~~metering~~METER in accordance with § 75.17 (relating to process for obtaining Commission approval of customer-generator status).

(b) EGSs may offer net metering to customer-generators, on a first come, first served basis, under the terms and conditions as are set forth in agreements between EGSs and customer-generators taking service from EGSs**, or as directed by the Commission**.

[(b)] (c) An EDC shall file a tariff with the Commission that provides for net metering consistent with this chapter. An EDC shall file a tariff providing net metering protocols that enable EGSs to offer net metering to customer-generators taking service from EGSs. To the extent that an EGS offers net metering service, the EGS shall prepare information about net metering consistent with this chapter and provide that information with the disclosure information required in § 54.5 (relating to disclosure statement for residential and small business customers).

[(c) The EDC] (d) An EDC and DSP shall credit a customer-generator at the full retail **KILOWATT-HOUR** rate, which shall include generation, transmission and distribution charges, for each kilowatt-hour produced by a Tier I or Tier II resource installed on the customer-generator's side of the electric revenue meter, up to the total amount of electricity used by that customer during the billing period. If a **[customer generator] customer-generator** supplies more electricity to the electric distribution system than the EDC **[delivers] and DSP deliver** to the customer-generator in a given billing period, the excess kilowatt hours shall be carried forward and credited against the customer-generator's **KILOWATT-HOUR** usage in subsequent billing periods at the full retail rate. Any excess kilowatt hours **that are not offset by electricity used by the customer in subsequent billing periods** shall continue to accumulate until the end of the year. For customer-generators involved in virtual meter aggregation programs, a credit shall be applied first to the meter through which the generating facility supplies electricity to the distribution system, then through the remaining meters for the customer-generator's account equally at each meter's designated rate.

[(d)] (e) At the end of each year, the **[EDC] DSP** shall compensate the customer-generator for any **remaining** excess kilowatt-hours generated by the customer-generator **[over the amount of kilowatt hours delivered by the EDC during the same year] that were not previously credited against the customer-generator's usage in prior billing periods** at the ~~EDC's~~**DSP'S** price to compare **rate**. ~~**In computing the compensation, the DSP shall use a weighted average of the price to compare rate with the weighting based on the rate in effect when the excess generation was actually delivered by the customer-generator to the DSP.**~~

[(e)] (f) The credit or compensation terms for excess electricity produced by customer-generators who are customers of EGSs shall be stated in the service agreement between the customer-generator and the EGS. **EDCs shall credit customer-generators who are EGS customers for each kilowatt-hour of electricity produced at the EDC's unbundled distribution kilowatt-hour rate. The distribution KILOWATT-HOUR RATE credit shall be applied monthly AGAINST KILOWATT-HOUR DISTRIBUTION USAGE. If the customer-generator supplies more electricity to the**

electric distribution system than the EDC delivers to the customer-generator in any billing period, the excess kilowatt hours shall be carried forward and credited against the customer-generator's unbundled KILOWATT-HOUR distribution usage in subsequent billing periods until the end of the year when all remaining unused KILOWATT-HOUR distribution credits shall be zeroed-out. Distribution credits are not carried forward into the next year.

[(f)] (g) If a customer-generator switches electricity suppliers, the EDC shall treat the end of the service period as if it were the end of the year.

[(g)] (h) An EDC and EGS which offer net metering shall submit an annual net metering report to the Commission. The report shall be submitted by July 30 of each year, and include the following information for the reporting period ending May 31 of that year:

(1) The total number of customer-generator facilities.

(2) The total estimated rated generating capacity of its net metering customer-generators.

[(h)] (i) A customer-generator that is eligible for net metering owns the alternative energy credits of the electricity it generates, unless there is a contract with an express provision that assigns ownership of the alternative energy credits to another entity or the customer-generator expressly rejects any ownership interest in alternative energy credits under § 75.14(d) (relating to meters and metering).

[(i)] (j) An EDC **and DSP** shall provide net metering at nondiscriminatory rates identical with respect to rate structure, retail rate components and any monthly charges to the rates charged to other customers that are not customer-generators **on the same default service rate**. An EDC **and DSP** may use a special load profile for the customer-generator which incorporates the customer-generator's real time generation if the special load profile is approved by the Commission.

[(j)] (k) An EDC **or DSP** may not charge a customer-generator a fee or other type of charge unless the fee or charge would apply to other customers that are not customer-generators**, or is specifically authorized under this chapter or by order of the Commission**. The EDC **and DSP** may not require additional equipment or insurance or impose any other requirement unless the additional equipment, insurance or other requirement is specifically authorized under this chapter or by order of the Commission.

[(k)] (l) Nothing in this subchapter abrogates a person's obligation to comply with other applicable law.

§ 75.14. Meters and metering.

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(e) Virtual meter aggregation on properties owned or leased and operated by **[a] the same** customer-generator shall be allowed for purposes of net metering. Virtual meter aggregation shall be limited to meters located on properties owned or leased and operated **by the same customer-generator** within 2 miles of the boundaries of the customer-generator's property and within a single EDC's service territory. **All ~~properties~~SERVICE LOCATIONS to be aggregated must be EDC SERVICE LOCATION ACCOUNTS HELD BY THE SAME INDIVIDUAL OR LEGAL ENTITY receiving RETAIL electric ~~generation~~ service FROM THE SAME EDC and have measureable load independent of any alternative energy system.** Physical meter aggregation shall be at the customer-generator's expense. The EDC shall provide the necessary equipment to complete physical aggregation. If the customer-generator requests virtual meter aggregation, it shall be provided by the EDC at the customer-generator's expense. The customer-generator shall be responsible only for any incremental expense entailed in processing his account on a virtual meter aggregation basis.

* * * * *

§ 75.16. Large customer-generators.

(a) This section applies to distributed generation systems with a nameplate capacity above 3 MW and up to 5 MW. The section identifies the standards that distributed generation systems must satisfy to qualify for customer-generator status.

(b) A retail electric customer may qualify its alternative energy system for customer-generator status if it makes its system available to operate in parallel with the grid during grid emergencies by satisfying the following requirements:

(1) ~~An RTO has designated, under a Federal Energy Regulatory Commission approved tariff or agreement, the alternative energy system as a generation resource that may be called upon to respond to grid emergencies.~~

~~(2)~~ The alternative energy system is able to provide the emergency support consistent with the **RTO** tariff or agreement.

~~(3)~~**(2)** The alternative energy system is able to increase and decrease generation delivered to the distribution system in parallel with the EDC's operation of the distribution system during the grid emergency.

(c) A retail electric customer may qualify its alternative energy system located within a microgrid for customer-generator status if it satisfies the following requirements:

(1) The alternative energy system complies with IEEE Standard 1547.4.

(2) The customer documents that the alternative energy system exists for the primary or secondary purpose of maintaining critical infrastructure.

§ 75.17. Process for obtaining Commission approval of customer-generator status.

(a) This section establishes the process through which EDCs obtain Commission approval to net meter alternative energy systems with a nameplate capacity of 500 kW or greater.

(b) An EDC shall submit a completed net metering application to the Commission's Bureau of Technical Utility Services with a recommendation on whether the alternative energy system complies with the applicable provisions of this chapter and the EDC's net metering tariff provisions within 20 days of receiving a completed application. The EDC shall serve its recommendation on the applicant.

(c) The net metering applicant has 20 days to submit a response to the EDC's recommendation **TO REJECT AN APPLICATION** to the Bureau of Technical Utility Services.

(d) The Bureau of Technical Utility Services will review the net metering application, the EDC recommendation and **APPLICANT** response, and make a determination as to whether the alternative energy system complies with this chapter and the EDC's net metering tariff.

(e) The Bureau of Technical Utility Services will approve or disapprove the net metering application within ~~30~~**10** days of **AN EDCS** submission **RECOMMENDING APPROVAL. IF DISAPPROVED, THE BUREAU OF TECHNICAL UTILITY SERVICES WILL**~~and~~ describe in detail the reasons for disapproval. **THE BUREAU OF TECHNICAL UTILITY SERVICES WILL SERVE ITS DETERMINATION ON THE EDC AND THE APPLICANT.**

(F) THE BUREAU OF TECHNICAL UTILITY SERVICES WILL APPROVE OR DISAPPROVE THE NET METERING APPLICATION WITHIN 5 DAYS OF AN APPLICANT'S RESPONSE TO AN EDC'S RECOMMENDATION TO DENY APPROVAL, BUT NO MORE THAN 30 DAYS AFTER AN EDC SUBMITS AN APPLICATION WITH A RECOMMENDATION TO DENY APPROVAL, WHICHEVER IS EARLIER. The Bureau of Technical Utility Services will serve its determination on the EDC and the applicant.

~~(f)~~**(G)** The applicant and the EDC may appeal the determination of the Bureau of Technical Utility Services in accordance with § 5.44 (relating to petitions for reconsideration from actions of the staff).

Subchapter C. INTERCONNECTION STANDARDS

GENERAL

§ 75.22. Definitions.

The following words and terms, when used in this subchapter, have the following meanings unless the context clearly indicates otherwise:

* * * * *

Electric nameplate capacity—The net maximum or net instantaneous peak electric output **[capability]** **capacity** measured in volt-amps of a small generator facility**, the inverter or the aggregated capacity of multiple inverters at an alternative energy systems location** as designated by the manufacturer.

* * * * *

INTERCONNECTION PROVISIONS

§ 75.31. Applicability.

The interconnection procedures apply to customer-generators with small generator facilities that satisfy the following criteria:

(1) The electric nameplate capacity of the small generator facility is equal to or less than **[2]** **5** MW.

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§ 75.34. Review procedures.

An EDC shall review interconnection requests using one or more of the following four review procedures:

* * * * *

(2) An EDC shall use Level 2 procedures for evaluating interconnection requests to connect small generation facilities when:

(i) The small generator facility uses an inverter for interconnection.

(ii) The electric nameplate capacity rating is **[2]** **5** **2** MW or less.

(iii) The customer interconnection equipment proposed for the small generator facility is certified.

(iv) The proposed interconnection is to a radial distribution circuit, or a spot network limited to serving one customer.

(v) The small generator facility was reviewed under Level 1 review procedures but not approved.

(3) An EDC shall use Level 3 review procedures for evaluating interconnection requests to connect small generation facilities with an electric nameplate capacity of **[2] 5 2** MW or less which do not qualify under Level 1 or Level 2 interconnection review procedures or which have been reviewed under Level 1 or Level 2 review procedures, but have not been approved for interconnection.

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§ 75.39. Level 3 interconnection review.

(a) Each EDC shall adopt the Level 3 interconnection review procedure in this section. An EDC shall use the Level 3 review procedure to evaluate interconnection requests that meet the following criteria and for interconnection requests considered but not approved under a Level 2 or a Level 4 review if the interconnection customer submits a new interconnection request for consideration under Level 3:

(1) The small generator facility has an electric nameplate capacity that is **[2] 5** MW or less.

(2) The small generator facility is less than **[2] 5** MW and not certified.

(3) The small generator facility is less than **[2] 5** MW and noninverter based.

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§ 75.40. Level 4 interconnection review.

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(d) When interconnection to circuits that are not networked is requested, upon the mutual agreement of the EDC and the interconnection customer, the EDC may use the Level 4 review procedure for an interconnection request to interconnect a small generator facility that meets the following criteria:

(1) The small generator facility has an electric nameplate capacity of **[2] 5** MW or less.

(2) The aggregated total of the electric nameplate capacity of all of the generators on the circuit, including the proposed small generator facility, is **[2] 5** MW or less.

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DISPUTE RESOLUTION

§ 75.51. Disputes.

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[(c) When disputes relate to the technical application of this chapter, the Commission may designate a technical master to resolve the dispute. The Commission may designate a Department of Energy National laboratory, PJM Interconnection L.L.C., or a college or university with distribution system engineering expertise as the technical master. When the Federal Energy Regulatory Commission identifies a National technical dispute resolution team, the Commission may designate the team as its technical master. Upon Commission designation, the parties shall use the technical master to resolve disputes related to interconnection. Costs for dispute resolution conducted by the technical master shall be determined by the technical master subject to review by the Commission.

(d)] **(c)** Pursuit of dispute resolution may not affect an interconnection applicant with regard to consideration of an interconnection request or an interconnection applicant's position in the EDC's interconnection queue.

Subchapter D. ALTERNATIVE ENERGY PORTFOLIO REQUIREMENT

§ 75.61. EDC and EGS obligations.

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(b) For each reporting period, EDCs and EGSs shall acquire alternative energy credits in quantities equal to a percentage of their total retail sales of electricity to all retail electric customers for that reporting period, as measured in MWh. The credit obligation for a reporting period shall be rounded to the nearest whole number. The required quantities of alternative energy credits for each reporting period are identified in the following schedule**, subject to the quarterly adjustment of the nonsolar Tier I obligation under § 75.71 (relating to quarterly adjustment of nonsolar Tier I obligation)**:

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§ 75.62. Alternative energy system qualification.

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(f) A facility may not be qualified unless the Department has verified compliance with applicable environmental regulations, and the standards set forth in section 2 of the act (73 P. S. § 1648.2).

(g) A facility's alternative energy system status may be suspended or revoked for noncompliance with this chapter, including the following circumstances:

(1) Providing false information to the Commission, credit registry or program administrator.

(2) Department notification to the Commission of violations of standards in section 2 of the act.

§ 75.63. Alternative energy credit certification.

* * * * *

(g) For solar photovoltaic alternative energy systems with a nameplate capacity of 15 **[kilowatts]** **kW** or less **that are installed or that increase nameplate capacity on or after _____ (*Editor's Note*: The blank refers to 180 days after the effective date of adoption of this proposed rulemaking.)**, alternative energy credit certification shall be verified by the administrator designated under § 75.64 **using metered data**. **For solar photovoltaic alternative energy systems with a nameplate capacity of 15 kW or less that are installed before _____, (*Editor's Note*: The blank refers to 180 days after the effective date of adoption of this proposed rulemaking.) alternative energy credit certification shall be verified by the administrator using either metered data or estimates. The use of estimates is subject to the following conditions:**

(1) A revenue grade meter has not been installed to measure the output of the alternative energy system.

(2) The alternative energy system has not used actual meter or other monitoring system readings for determining system output in the past.

(3) The solar photovoltaic alternative energy system has either a fixed solar orientation or a one-axis or two-axis automated solar tracking system.

(4) The solar photovoltaic alternative energy system is comprised of crystalline silicon modules or a type of module that meets the criteria of the program used by the program administrator to calculate the estimates.

(5) The program administrator has deemed the solar photovoltaic alternative energy system eligible to utilize estimates based on the verified output of the alternative energy system.

(h) An alternative energy credit represents the attributes of 1 MWh of electric generation that may be used to satisfy the requirements of § 75.61 (relating to EDC and EGS obligations). The alternative energy credit shall remain the property of the alternative energy system until voluntarily transferred. A certified alternative energy credit does not automatically include environmental, emissions or other attributes associated with 1 MWh of electric generation. Parties may bundle the attributes unrelated to compliance with § 75.61 with an alternative energy credit, or, alternatively, sell, assign, or trade them separately.

(i) An alternative energy system may begin to earn alternative energy credits on the date a complete application is filed with the administrator, provided that a meter or inverter reading is included with the application.

(j) An alternative energy system application may be rejected if the applicant does not respond to a program administrator request for information or data within 90 days. An application that is not approved within 180 days of its submission due to the applicant's failure to provide information or data to the program administrator will be deemed rejected unless affirmatively held open by the program administrator.

(k) Alternative energy system generation or conservation data entered into the credit registry will be allocated to the compliance year in which the generation or conservation occurred to ensure that alternative energy credits are certified with the correct vintage year.

§ 75.64. Alternative energy credit program administrator.

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(b) The program administrator will have the following powers and duties in regard to alternative energy system qualification:

* * * * *

(5) The program administrator will provide written notice to applicants of its qualification decision within 30 days of receipt of a complete application form.

(6) The program administrator may suspend or revoke the qualification of an alternative energy system and withhold or retire past, current or future alternative energy credits attributed to an alternative energy system for noncompliance with this chapter, including the following circumstances:

(i) It no longer satisfies the alternative energy system qualification standards in § 75.62.

(ii) The owner or aggregator of the alternative energy system provides false or incorrect information in an application.

(iii) The owner or aggregator of the alternative energy system fails to notify the program administrator of changes to the alternative energy system that effect the alternative energy system's generation output.

(iv) The owner or aggregator of the alternative energy system fails to notify the program administrator of a change in ownership or aggregator of the alternative energy system.

(v) The owner or aggregator provides false or inaccurate information to the credit registry.

(vi) The owner or aggregator fails to respond to data and information requests from the Commission, Department or program administrator.

(c) The program administrator shall have the following powers and duties regarding the verification of compliance with this chapter:

(1) At the end of each reporting period, the program administrator shall verify **the** EDC and EGS **[compliance with § 75.61 (relating to EDC and EGS obligations)] reported load**, and provide written notice to each EDC and EGS **[of an initial assessment of their] of its** compliance **[status] obligations** within 45 days of the end of the reporting period.

(2) At the end of each true-up period, the administrator shall verify compliance with § 75.61 **(relating to EDC and EGS obligations)** for **all** EDCs and EGSs **[who were in violation of § 75.61 at the end of the reporting period]**. The administrator will provide written notice to each EDC and EGS of a final assessment of **[their] its** compliance status within **[15] 45** days of the end of the true-up period.

(3) EDCs and EGSs shall provide all information to the program administrator necessary to verify compliance with § 75.61 **including the prices paid for the alternative energy credits used for compliance. The pricing information must include a per credit price for any credits used for compliance that were not self-generated or bundled with energy.**

(4) The program administrator shall provide a report to the **[Commission] Commission's Bureau of Technical Utility Services** within 45 days of the end of **[each reporting period and] the** true-up period that identifies the compliance status of all EDCs and EGSs. The report provided after the end of the true-up period shall propose alternative compliance payment amounts for each EDC and EGS that is noncompliant with § 75.61 for that reporting period. As part of this report, the administrator shall identify the average market value of alternative energy credits derived from solar photovoltaic energy sold in the reporting period for each RTO that manages a portion of this Commonwealth's transmission system.

(d) The program administrator shall have the following powers and duties relating to alternative energy credit certification:

(1) The program administrator may not certify an alternative energy credit already purchased by individuals, businesses or government bodies that do not have a compliance obligation under the act unless the individual, business or government body sells those credits to the EDC or EGS.

(2) The program administrator may not certify an alternative energy credit for a MWh of electricity generation or electricity conservation that has already been used to satisfy another state's renewable energy portfolio standard, alternative energy portfolio standard or other comparable standard.

(3) The program administrator may not certify an alternative energy credit that does not meet the requirements of § 75.63 (relating to alternative energy credit certification).

(e) A decision of the program administrator may be appealed consistent with § 5.44 (relating to petitions for **[appeal]** **reconsideration** from actions of the staff).

* * * * *

§ 75.65. Alternative compliance payments.

(a) Within 15 days of receipt of the report identified in § 75.64(c)(4) (relating to alternative energy credit program administrator), the **[Commission]** **Commission's Bureau of Technical Utility Services** will provide written notice to each EDC and EGS that was noncompliant with § 75.61 (relating to EDC and EGS obligations) of their alternative compliance payment for that reporting period.

* * * * *

(c) EDCs and EGSs shall advise the **[Commission]** **Bureau of Technical Utility Services** in writing within 15 days of the issuance of this notice of their acceptance of the alternative compliance payment determination or, if they wish to contest the determination, file a petition to modify the level of the alternative compliance payment. The petition must include documentation supporting the proposed modification. The **[Commission]** **Bureau of Technical Utility Services** will refer the petition to the **[Office of Administrative Law Judge]** **Commission's Bureau of Investigation and Enforcement** for further **[proceedings]** **actions** as may be **[necessary]** **warranted**. Failure of an EDC or EGS to respond to the **[Commission]** **Bureau of Technical Utility Services** within 15 days of the issuance of this notice shall be deemed an acceptance of the alternative compliance payment determination.

* * * * *

§ 75.71. Quarterly adjustment of nonsolar Tier I obligation.

(a) The Tier I nonsolar photovoltaic obligation of EDCs and EGSs shall be adjusted quarterly during the reporting period to comply with section 2814(c) of the act (relating to additional alternative energy sources).

(b) The quarterly requirement will be determined as follows:

(1) The nonsolar photovoltaic Tier I quarterly percentage increase equals the ratio of the available new Tier I MWh generation to total quarterly EDC and EGS MWh retail sales (new Tier I MWh generation/EDC and EGS MWh retail sales = nonsolar pv Tier I % increase).

(2) The new quarterly nonsolar photovoltaic Tier I requirement equals the sum of the new nonsolar photovoltaic Tier I percentage increase and the annual nonsolar photovoltaic Tier I percentage requirement in § 75.61(b) (relating to EDC and EGS obligations) (nonsolar photovoltaic Tier I % increase + annual non- solar photovoltaic Tier I % = new quarterly nonsolar photovoltaic Tier I % requirement).

(3) An EDC's or EGS's quarterly MWh retail sales multiplied by the new quarterly nonsolar photovoltaic Tier I requirement (EDC and EGS quarterly MWh x new quarterly nonsolar photovoltaic Tier I % = EDCs' and EGSs' quarterly nonsolar photovoltaic Tier I requirement) yields the quantity of alternative energy credits required by that EDC or EGS for compliance. The EDC and EGS final total annual compliance obligations shall be determined by the program administrator at the end of the compliance year in accordance with § 75.64(c) (relating to alternative energy credit program administrator).

(c) Alternative energy systems qualified consistent with section 2814(a) and (b) of the act shall grant the program administrator access to their credit registry account information as a condition of certification of any alternative energy credits created under these sections.

§ 75.72. Reporting requirements for quarterly adjustment of nonsolar Tier I obligation.

(a) For purposes of implementing § 75.71 (relating to quarterly adjustment of nonsolar Tier I obligation) EDCs and EGSs shall report their monthly retail sales on a quarterly basis during the reporting period. An EDC shall submit its monthly sales data and the monthly sales data for each EGS serving in its service territory to the program administrator each quarter as follows:

(1) First quarter (June, July and August) due by ~~October 30~~**NOVEMBER 4**.

(2) Second quarter (September, October and November) due by ~~January 30~~**FEBRUARY 4**.

(3) Third quarter (December, January and February) due by ~~April 30~~**MAY 5**.

(4) Fourth quarter (March, April and May) due by June 30.

(b) Each EGS shall verify its monthly sales data each quarter as follows:

(1) First quarter (June, July and August) due by the second business day after ~~October 30~~**NOVEMBER 4**.

(2) Second quarter (September, October and November) due by the second business day after ~~January 30~~**FEBRUARY 4**.

(3) Third quarter (December, January and February) due by the second business day after ~~April 30~~**MAY 5**.

(4) Fourth quarter (March, April and May) due by the second business day after June 30.

(c) For purposes of implementing the § 75.71, all Tier I alternative energy systems qualified under section 2814(a) and (b) of the act (relating to additional alternative energy sources) shall provide the following information on a monthly basis:

(1) The facility's total generation from qualifying alternative energy sources for the month in MWh, broken down by source.

(2) The amount of alternative energy credits sold in the month to each EDC and EGS with a compliance obligation under the act.

(3) The amount of alternative energy credits sold in the month to any other entity, including EDCs, EGSs and other users for compliance with another state's alternative/renewable energy portfolio standard or sold on the voluntary market. Each alternative energy credit and the entity they were transferred to must be listed.

(4) The amount of alternative energy credits created and eligible for sale during the month but not yet sold.

(5) The sale or other disposition of alternative energy credits created in prior months and transferred in the month, itemized by compliance status (Pennsylvania portfolio standard, other state compliance, voluntary market, and the like).

ANNEX B

COMMONWEALTH OF PENNSYLVANIA
OFFICE OF ATTORNEY GENERAL
October 5, 2016

RE: Public Utility Commission Regulation #57-304

TO: Bohdan R. Pankiw
Chief Counsel
Public Utility Commission

FROM: Amy M. Elliott
Chief Deputy Attorney General
Legal Review Section

This office is in receipt of the Commission's September 29, 2016, response to our September 1, 2016, tolling memorandum. Having reviewed the Commission's correspondence, we hereby direct the Commission to amend the definition of "utility" in Section 75.1 to read as follows:

> Utility – a business, person or entity whose primary purpose, character, or nature is the generation, transmission, distribution or sale of electricity at wholesale or retail. This term excludes building or facility owners or operators that manage the internal distribution system serving such building or facility and that supply electric power and other related power services to occupants of the building or facility.

In consideration of the foregoing, this regulation is hereby approved for form and legality, contingent upon the adoption of this revised definition by the Commission at a Commission Public Meeting as soon as is practical.

Public Utility Commission
52 Pa. Code Ch. 75
Implementation of the Alternative Energy
Portfolio Standards Act of 2004
FINAL FORM

AME:mlm
SR-75554-C1ZW

cc: Leslie A. Lewis Johnson, Esq.

peco
AN EXELON COMPANY

CA-1

Name: GREENFIELD MFG CO INC
Account Number: [redacted]
Phone Number: [redacted]
Service Address: [redacted] Bustleton Ave RS - IN\OUT, Philadelphia

Emergency and Repair
800-841-4141
This is the number to call to report power outages, gas leaks or odors, and safety hazards related to PECO Equipment.



PECO
2301 MARKET STREET
PHILADELPHIA, PA 19103
800-494-4000
peco.com

Billing Summary

Bill Date	12/16/2025
Charges/Credits from previous bill	$2,016.53
Total Other Charges	**$2,016.53**
Current Period Charges	
Electric	-$2,727.38
Total New Charges	**($2,727.38)**
No Payment is Due	**$0.00**

Your remaining excess credit is $710.85

General Information

Next scheduled meter reading: 01/20/2026

800-494-4000

If you have any questions or concerns, please call 800-494-4000 before the due date. Si tiene alguna pregunta, favor de llamar al numero 800-494-4000 antes de la fecha de vencimiento.

peco.com/service

Customer Self Service - Manage Your Account 24/7
Start, stop and move your service

Account Representative

Your major account rep is Rep Chris Amicone,PECO. If you have any questions about this bill please contact us at 215-841-5515 or by writing PECO, 2301 Market St, S10-1, Philadelphia, PA 19103-1380.

8188-02-0019070-0001-0007173

Online: **peco.com**

By Phone: **215-841-5515**

Return only this portion with your check made payable to PECO. Please write your account number on your check.

peco
AN EXELON COMPANY
2301 Market Street
Philadelphia, PA 19103-1380

☐ Enroll in Automatic Payment. *Complete form on reverse side.*
☐ Pledge a donation to MEAF. *Complete form on reverse side.*

Account # [redacted]
877-432-9384
Pay by phone, a convenience fee will apply.

No Payment is Due **$0.00**

Payment Amount $ _____ . ___

Pay Today!

peco.com/ebill
Go paperless: receive and pay your bill online.

0019070 01 AB 0.64 **AUTO T3 0 8188 19115-214600 -C02-B1-P19089-I1

GREENFIELD MFG CO INC
[redacted] BUSTLETON AVE
PHILADELPHIA, PA 19115-2146

PECO - PAYMENT PROCESSING
PO BOX 37629
PHILADELPHIA PA 19101-0629

[redacted]

peco
AN EXELON COMPANY

Account Number: [redacted]

1 Service Address [redacted] Bustleton Ave RS - IN\OUT, Philadelphia, PA 19115 **($2,727.38)** Electric Choice ID: [redacted]

Meter Information

Read Dates	Meter Number	Load Type	Reading Type	Meter Reading Previous	Meter Reading Present	Difference	Multiplier X	Total Usage
10/21-11/19	019474971	Out Without Flow Through	Tot kWh	Actual	Actual	12.7396	4800	61150
10/21-11/19	020227585	Out Without Flow Through	Tot kWh	Actual	Actual	11.2380	1920	21577
10/21-11/19	022020354	General Service	GS Off Pk kW	Actual	Actual	0.0190	4800	91.20
10/21-11/19	022020354	General Service	On Pk kW	Actual	Actual	0.0200	4800	96.00
10/21-11/19	022020354	General Service	Pk kW	Actual	Actual	0.0200	4800	96.00
10/21-11/19	022020354	General Service	Tot kWh	Actual	Actual	2.6421	4800	12682
10/21-11/19	022020356	General Service	GS Off Pk kW	Actual	Actual	0.0130	1920	24.96
10/21-11/19	022020356	General Service	On Pk kW	Actual	Actual	0.0140	1920	26.88
10/21-11/19	022020356	General Service	Pk kW	Actual	Actual	0.0140	1920	26.88
10/21-11/19	022020356	General Service	Tot kWh	Actual	Actual	4.6781	1920	8982

Distribution kW - **Measured : 123** Transmission kW - **Measured : 123** Generation kW - **Measured : 123**

Total kWh Used: 21,664

ELECTRIC HIGH TENSION SERVICE 100KW-500KW

Service Period 10/21/2025 to 11/19/2025 - 29 days

PECO ELECTRIC DELIVERY			**$1,229.37**
Customer Charge			383.13
Distribution Charges	123 kW	X 7.12000	875.76
High Voltage Discount	123 kW	X -0.24000	-29.52
PECO ELECTRIC SUPPLY			**-$3,978.47**
Administrative Charge	21,663 kWh	X 0.00003	0.65
Generation Charges	21,663 kWh		1,103.83
Ancillary Charge	21,663 kWh	X 0.00533	115.46
Purchased Generation Adj.	21,663 kWh	X 0.00234	50.69
Working Capital Charge	21,663 kWh	X 0.00035	7.58
Transmission Charges	123 kW	X 1.69000	207.87
Renewable Energy Credit			-5,464.55
TAXES & FEES			**$21.72**
Sales Tax			21.72
Total Current Charges			**-$2,727.38**

Shopping Information Box

When shopping for a competitive electric/natural gas supplier, please provide the following:

Electric Choice ID: [redacted]
Electric Rate: Electric High Tension Service 100kW-500kW

If you are purchasing the energy you use from a competitive supplier, it is important to understand the terms of your contract and expiration date.

Message Center

From PECO:

5.90% estimated Gross Receipt Tax of $-162.20 included in new charges.

Your estimated electric price to compare adder is $0 per kWh, which includes ancillary charges and the purchased generation adjustment but excludes energy and capacity. This may change in March, June, September and December. For more information and supplier offers visit **PAPowerSwitch.com**.

Your Previous Banked Distribution kWh is 745174. Your Current Change in Banked Distribution kWh is 61063. Your current Adjustment to Banked Distribution kWh due to settlement is 0. Your Remaining Banked Distribution kWh is 806237.

8188-02-0019070-0001-0007174

peco℠
AN EXELON COMPANY

Account Number: [redacted]

Your Usage Profile
ANNUAL ELECTRIC USAGE



peco.com/WaysToSave
Save energy and money

Period	Usage	Avg Daily Usage	Days	Avg Daily Temp
Current Month	21,664	747.00	29	53
Last Month	21,954	686.10	32	71
Last Year	36,945	1,191.80	31	57

Avg kWh per Month	21,523
Total Annual kWh Usage	258,273

8188-02-0019070-0002-0007174

Ways to Pay

Online
Visit **peco.com/paybill** where you can enroll in AutoPay, or make a one-time payment using your credit card or bank account.

Mobile App
Download **the PECO mobile app** for your Apple or Android device for the quickest and easiest way to manage your account and pay bill with one swipe of the finger.

Mail
Mail checks payable to PECO and write your account # on your check. Make sure to include the tear-off portion of your bill at the bottom of page 1.

Phone
Call **877-432-9384** to make a payment with a credit card, debit card, or your bank account.*

** Fees apply for card & phone payments.*
No fees apply when you create a PECO My Account and pay using your bank account

peco
AN EXELON COMPANY

Name: GREENFIELD MFG CO INC
Account Number: [redacted]
Phone Number: [redacted]
Service Address: [redacted] Bustleton Ave RS - IN\OUT, Philadelphia

Emergency and Repair
800-841-4141
This is the number to call to report power outages, gas leaks or odors, and safety hazards related to PECO Equipment.



PECO
2301 MARKET STREET
PHILADELPHIA, PA 19103
800-494-4000
peco.com

Billing Summary

Bill Date	12/15/2025
Charges/Credits from previous bill	$6,974.87
Total Other Charges	**$6,974.87**
Current Period Charges	
Electric	-$4,958.34
Total New Charges	**($4,958.34)**
Total Amount Due on 12/31/2025	**$2,016.53**

General Information

Next scheduled meter reading: 01/20/2026

800-494-4000
If you have any questions or concerns, please call 800-494-4000 before the due date. Si tiene alguna pregunta, favor de llamar al numero 800-494-4000 antes de la fecha de vencimiento.

peco.com/service
Customer Self Service - Manage Your Account 24/7
Start, stop and move your service

Account Representative

Your major account rep is Rep Chris Amicone,PECO. If you have any questions about this bill please contact us at 215-841-5515 or by writing PECO, 2301 Market St, S10-1, Philadelphia, PA 19103-1380.

8187-02-0015880-0001-0005843

Online: **peco.com**

By Phone: **215-841-5515**

Return only this portion with your check made payable to PECO. Please write your account number on your check.

peco
AN EXELON COMPANY
2301 Market Street
Philadelphia, PA 19103-1380

☐ Enroll in Automatic Payment. *Complete form on reverse side.*
☐ Pledge a donation to MEAF. *Complete form on reverse side.*

Account # [redacted]
877-432-9384
Pay by phone, a convenience fee will apply.

Please pay this amount by 12/31/2025 **$2,016.53**

Payment Amount $ _____ . ___

Pay Today!

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Go paperless: receive and pay your bill online.

0015880 01 AB 0.64 **AUTO T0 0 8187 19115-214600 -C02-B1-P15895-I1

GREENFIELD MFG CO INC
[redacted] BUSTLETON AVE
PHILADELPHIA, PA 19115-2146

PECO - PAYMENT PROCESSING
PO BOX 37629
PHILADELPHIA PA 19101-0629

[redacted]

peco
AN EXELON COMPANY

Account Number: [redacted]

1 Service Address [redacted] Bustleton Ave RS - IN\OUT, Philadelphia, PA 19115 **($4,958.34)** Electric Choice ID: [redacted]

Meter Information

Read Dates	Meter Number	Load Type	Reading Type	Meter Reading Previous	Meter Reading Present	Difference	Multiplier X	Total Usage
09/19-10/21	019474971	Out Without Flow Through	Tot kWh	Actual	Actual	20.4971	4800	98386
09/19-10/21	020227585	Out Without Flow Through	Tot kWh	Actual	Actual	17.5604	1920	33716
09/19-10/21	022020354	General Service	GS Off Pk kW	Actual	Actual	0.0160	4800	76.80
09/19-10/21	022020354	General Service	On Pk kW	Actual	Actual	0.0160	4800	76.80
09/19-10/21	022020354	General Service	Pk kW	Actual	Actual	0.0160	4800	76.80
09/19-10/21	022020354	General Service	Tot kWh	Actual	Actual	2.6335	4800	12641
09/19-10/21	022020356	General Service	GS Off Pk kW	Actual	Actual	0.0130	1920	24.96
09/19-10/21	022020356	General Service	On Pk kW	Actual	Actual	0.0120	1920	23.04
09/19-10/21	022020356	General Service	Pk kW	Actual	Actual	0.0130	1920	24.96
09/19-10/21	022020356	General Service	Tot kWh	Actual	Actual	4.8505	1920	9313

Distribution kW - **Measured : 100** Transmission kW - **Measured : 100** Generation kW - **Measured : 100**

Total kWh Used: 21,954

ELECTRIC HIGH TENSION SERVICE 100KW-500KW

Service Period 09/19/2025 to 10/21/2025 - 32 days

PECO ELECTRIC DELIVERY			**$1,077.09**
Customer Charge			389.57
Distribution Charges	100 kW	X 7.12000	712.00
High Voltage Discount	102 kW	X -0.24000	-24.48
PECO ELECTRIC SUPPLY			**-$6,053.04**
Administrative Charge	21,954 kWh	X 0.00003	0.66
Generation Charges	21,954 kWh		774.94
Ancillary Charge	21,954 kWh	X 0.00533	117.01
Purchased Generation Adj.	21,954 kWh	X 0.00234	51.37
Working Capital Charge	21,954 kWh	X 0.00035	7.68
Transmission Charges	102 kW	X 1.69000	172.38
Renewable Energy Credit			-7,177.08
TAXES & FEES			**$17.61**
Sales Tax			17.61
Total Current Charges			**-$4,958.34**

Shopping Information Box

When shopping for a competitive electric/natural gas supplier, please provide the following:

Electric Choice ID: [redacted]
Electric Rate: Electric High Tension Service 100kW-500kW

If you are purchasing the energy you use from a competitive supplier, it is important to understand the terms of your contract and expiration date.

Message Center

From PECO:

5.90% estimated Gross Receipt Tax of $-293.58 included in new charges.

Your estimated electric price to compare adder is $0 per kWh, which includes ancillary charges and the purchased generation adjustment but excludes energy and capacity. This may change in March, June, September and December. For more information and supplier offers visit **PAPowerSwitch.com**.

Your Previous Banked Distribution kWh is 635026. Your Current Change in Banked Distribution kWh is 110148. Your current Adjustment to Banked Distribution kWh due to settlement is 0. Your Remaining Banked Distribution kWh is 745174.

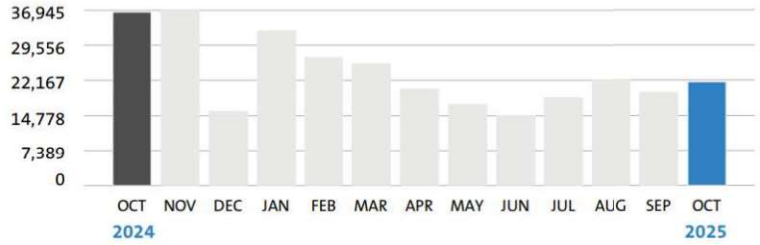
8187-02-0015880-0001-0005843

peco℠
AN EXELON COMPANY

Account Number: [redacted]

Your Usage Profile
ANNUAL ELECTRIC USAGE

peco.com/WaysToSave
Save energy and money



Period	Usage	Avg Daily Usage	Days	Avg Daily Temp
Current Month	21,954	686.10	32	67
Last Month	19,716	657.20	30	76
Last Year	36,615	1,262.60	29	65

Avg kWh per Month	22,796
Total Annual kWh Usage	273,554

8187-02-0015880-0002-0005844

Ways to Pay

Online
Visit **peco.com/paybill** where you can enroll in AutoPay, or make a one-time payment using your credit card or bank account.

Mobile App
Download **the PECO mobile app** for your Apple or Android device for the quickest and easiest way to manage your account and pay bill with one swipe of the finger.

Mail
Mail checks payable to PECO and write your account # on your check. Make sure to include the tear-off portion of your bill at the bottom of page 1.

Phone
Call **877-432-9384** to make a payment with a credit card, debit card, or your bank account.*

** Fees apply for card & phone payments.*
No fees apply when you create a PECO My Account and pay using your bank account

peco
AN EXELON COMPANY

Name: GREENFIELD MFG CO INC
Account Number: [redacted]
Phone Number: [redacted]
Service Address: [redacted] Bustleton Ave RS - IN\OUT, Philadelphia

Emergency and Repair
800-841-4141
This is the number to call to report power outages, gas leaks or odors, and safety hazards related to PECO Equipment.



PECO
2301 MARKET STREET
PHILADELPHIA, PA 19103
800-494-4000
peco.com

Billing Summary

Bill Date	12/15/2025
Charges/Credits from previous bill	$13,229.56
Total Other Charges	**$13,229.56**
Current Period Charges	
Electric	-$6,254.69
Total New Charges	**($6,254.69)**
Total Amount Due on 12/31/2025	**$6,974.87**

General Information

Next scheduled meter reading: 01/20/2026

800-494-4000
If you have any questions or concerns, please call 800-494-4000 before the due date. Si tiene alguna pregunta, favor de llamar al numero 800-494-4000 antes de la fecha de vencimiento.

peco.com/service
Customer Self Service - Manage Your Account 24/7
Start, stop and move your service

Account Representative

Your major account rep is Rep Chris Amicone,PECO. If you have any questions about this bill please contact us at 215-841-5515 or by writing PECO, 2301 Market St, S10-1, Philadelphia, PA 19103-1380.

8187-02-0015880-0001-0005841

Online: **peco.com**

By Phone: **215-841-5515**

Return only this portion with your check made payable to PECO. Please write your account number on your check.

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2301 Market Street
Philadelphia, PA 19103-1380

☐ Enroll in Automatic Payment. *Complete form on reverse side.*
☐ Pledge a donation to MEAF. *Complete form on reverse side.*

Account # [redacted]
877-432-9384
Pay by phone, a convenience fee will apply.

Please pay this amount by 12/31/2025 **$6,974.87**

Payment Amount $ _____ . ___

Pay Today!

peco.com/ebill
Go paperless: receive and pay your bill online.

0015880 01 AB 0.64 **AUTO T0 0 8187 19115-214600 -C02-B1-P15895-I1

GREENFIELD MFG CO INC
[redacted] BUSTLETON AVE
PHILADELPHIA, PA 19115-2146

PECO - PAYMENT PROCESSING
PO BOX 37629
PHILADELPHIA PA 19101-0629

[redacted]

peco
AN EXELON COMPANY

Account Number: [redacted]

1 Service Address [redacted] Bustleton Ave RS - IN\OUT, Philadelphia, PA 19115 **($6,254.69)** Electric Choice ID: [redacted]

Meter Information

Read Dates	Meter Number	Load Type	Reading Type	Meter Reading Previous	Meter Reading Present	Difference	Multiplier X	Total Usage
08/20-09/19	019474971	Out Without Flow Through	Tot kWh	Actual	Actual	24.3885	4800	117065
08/20-09/19	020227585	Out Without Flow Through	Tot kWh	Actual	Actual	22.2328	1920	42687
08/20-09/19	022020354	General Service	GS Off Pk kW	Actual	Actual	0.0120	4800	57.60
08/20-09/19	022020354	General Service	On Pk kW	Actual	Actual	0.0120	4800	57.60
08/20-09/19	022020354	General Service	Pk kW	Actual	Actual	0.0120	4800	57.60
08/20-09/19	022020354	General Service	Tot kWh	Actual	Actual	2.3760	4800	11405
08/20-09/19	022020356	General Service	GS Off Pk kW	Actual	Actual	0.0130	1920	24.96
08/20-09/19	022020356	General Service	On Pk kW	Actual	Actual	0.0120	1920	23.04
08/20-09/19	022020356	General Service	Pk kW	Actual	Actual	0.0130	1920	24.96
08/20-09/19	022020356	General Service	Tot kWh	Actual	Actual	4.3286	1920	8311

Distribution kW - **Measured : 81** Transmission kW - **Measured : 81** Generation kW - **Measured : 81**

Total kWh Used: 19,716

ELECTRIC HIGH TENSION SERVICE 100KW-500KW

Service Period 08/20/2025 to 09/19/2025 - 30 days

PECO ELECTRIC DELIVERY			**$946.37**
Customer Charge			389.57
Distribution Charges	81 kW	X 7.12000	576.72
High Voltage Discount	83 kW	X -0.24000	-19.92
PECO ELECTRIC SUPPLY			**-$7,215.17**
Administrative Charge	19,716 kWh	X 0.00003	0.59
Generation Charges	19,716 kWh		517.97
Ancillary Charge	19,716 kWh	X 0.00533	105.09
Purchased Generation Adj.	19,716 kWh	X 0.00234	46.14
Working Capital Charge	19,716 kWh	X 0.00035	6.90
Transmission Charges	83 kW	X 1.69000	140.27
Renewable Energy Credit			-8,032.13
TAXES & FEES			**$14.11**
Sales Tax			14.11
Total Current Charges			**-$6,254.69**

Shopping Information Box

When shopping for a competitive electric/natural gas supplier, please provide the following:

Electric Choice ID: [redacted]
Electric Rate: Electric High Tension Service 100kW-500kW

If you are purchasing the energy you use from a competitive supplier, it is important to understand the terms of your contract and expiration date.

Message Center

From PECO:

5.90% estimated Gross Receipt Tax of $-369.86 included in new charges.

Your estimated electric price to compare adder is $0 per kWh, which includes ancillary charges and the purchased generation adjustment but excludes energy and capacity. This may change in March, June, September and December. For more information and supplier offers visit **PAPowerSwitch.com**.

Your Previous Banked Distribution kWh is 494989. Your Current Change in Banked Distribution kWh is 140036. Your current Adjustment to Banked Distribution kWh due to settlement is 0. Your Remaining Banked Distribution kWh is 635026.

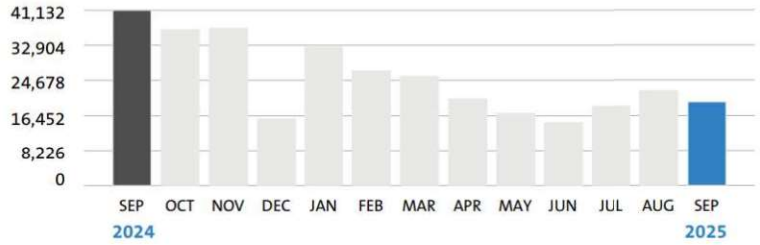
8187-02-0015880-0001-0005842

peco℠
AN EXELON COMPANY

Account Number: [redacted]

Your Usage Profile
ANNUAL ELECTRIC USAGE

peco.com/WaysToSave
Save energy and money



Period	Usage	Avg Daily Usage	Days	Avg Daily Temp
Current Month	19,716	657.20	30	71
Last Month	22,385	639.60	35	83
Last Year	41,132	1,371.10	30	72

Avg kWh per Month	24,018
Total Annual kWh Usage	288,215

8187-02-0015880-0002-0005842

Ways to Pay

Online
Visit **peco.com/paybill** where you can enroll in AutoPay, or make a one-time payment using your credit card or bank account.

Mobile App
Download **the PECO mobile app** for your Apple or Android device for the quickest and easiest way to manage your account and pay bill with one swipe of the finger.

Mail
Mail checks payable to PECO and write your account # on your check. Make sure to include the tear-off portion of your bill at the bottom of page 1.

Phone
Call **877-432-9384** to make a payment with a credit card, debit card, or your bank account.*

** Fees apply for card & phone payments.*
No fees apply when you create a PECO My Account and pay using your bank account