

Schedule 9-PSI Settlement Update

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Market Settlements Subcommittee
November 18th, 2022

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Schedule 9 Background

- Effective, January 1, 2022, PJM implemented the provisional approved FERC Docket ER22-26
 - Docket set for Settlement hearings
 - Settlement reached and filed on March 31, 2022
 - Settlement judge certified uncontested offer on May 3, 2022
- November 9, 2022, FERC approved ER22-26 in full
 - Settlement updates to take effect starting January 1, 2023
- Settlement filed was limited in scope
 - Refunds back to January 1, 2022 are not applicable
 - Modifications to 9-PJMSettlement rate



Prior to January 1, 2022

Stated Rate

January 1, 2022

- Formula Rate
- Rate = Actual Monthly Costs / Number of invoices in each month
- Charge = Rate * number of invoices issued in a month to each account

January 1, 2023

- Formula Rate
- Rate, Component 1 = (Actual Monthly Costs * 0.68) / Number of invoices in each month
- Charge, Component 1 = Rate * number of invoices issued in a month to each account
- Rate, Component 2 = six different rates will be calculated
- Charge, Component 2 = applied using Schedule 9-1 through Schedule 9-4 determinants



- How does PJM determine the Invoice Count?
 - PJM issues weekly and monthly bills within each calendar month
 - Count the number of total weekly and monthly bill each month (calendar not activity month)
 - Adjustments to a prior month BLI will trigger a monthly bill, therefore, an Invoice Count will be triggered and Schedule 9-PSI will be charged
 - Activity must trigger an Invoice Count, being charged only for Schedule 9-PSI does not trigger an Invoice Count



9-PSI, Component 2 breakdown

	Component 2a (Schedule 9-1)	Component 2b (Schedule 9-2, Component 1)	Component 2c (Schedule 9-2, Component 2)	Component 2d (Schedule 9-3, Component 1)	Component 2e (Schedule 9-3, Component 2)	Component 2f (Schedule 9-4)
Rate Numerator	PSI Actual Costs * 0.32 * 0.25	PSI Actual Costs * 0.32 * 0.25 * 0.6	PSI Actual Costs * 0.32 * 0.25 * 0.4	PSI Actual Costs * 0.32 * 0.25 * 0.987	PSI Actual Costs * 0.32 * 0.25 * 0.013	PSI Actual Costs * 0.32 * 0.25
Rate Denominator	Sum of Transmission Customer's actual hourly transmission use during the month (MWh)	Sum of FTR holder's hourly FTR MWs for each hour of month that FTR is in effect	Total number of hours associated with all bids to buy FTR Obligations + (5 * number of hours associated with all bids to buy FTR Options)	Total MWhs from Transmission Customers, Generation Providers using PJM transmission system and accepted sell offer/buy bids	Total number of bid/offer segments submitted by all Market Participant	Sum of LSEs monthly Accounted-for Obligations during the month (including FRRs) and Capacity Resource Owner's Unforced Capacity (MWd)
Charge Usage	Customer's Total Transmission Use for Month	Total FTR MWh	Number of hours in all bids to buy FTR Obligations + (5 * number of hours in all bids to buy FTR Options)	Transmission Customer MWh Usage + Generation Provider MWh Usage + Market Participant cleared bid/offer MWh	Market Participant's Day-ahead Energy Market Bid/Offer Segments (including rebidding period)	LSE = Total Daily Unforced Capacity Obligation Capacity Resources = Unforced Capacity MWs
Recon	Yes	No	No	Yes	No	No

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- Archived as of May 1, 2022
 - Schedule 9 and 10 Charge Details
- Proposed changes with FERC approval of Settlement
 - Schedule 9 and 10 Charge Summary
 - Schedule 9 and 10 Daily Usage Details
 - Schedule 9 and 10 Load Reconciliation Charge Summary



Schedule 9 and 10 Charge Summary

- Updates effective January 1, 2023
- Add additional rows for 9-PSI, Component 2 to current report
- No report format changes; update column 4001.61 to handle 3 decimals

4000.01	4000.02	4000.03	4001.61	4000.74	3012.31	3012.27	3012.29	4000.07
Customer ID	Customer Code	Month	Schedule 9-10 ID	Schedule	Total Monthly Usage	Rate	Charge (\$)	Version
1	Text	Month, YYYY	1301	9-1: Control Area Administration	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1302.1	9-2: Financial Transmission Rights - Component 1	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1302.2	9-2: Financial Transmission Rights - Component 2	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1303.1	9-3: Market Support - Component 1	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1303.2	9-3: Market Support - Component 2	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1305	9-4: Capacity Resource and Obligation Management	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.1	9-PSI: PJM Settlement, Inc Per Invoice	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.21	9-PSI: PJM Settlement, Inc 9-1	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.221	9-PSI: PJM Settlement, Inc 9-2 Component 1	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.222	9-PSI: PJM Settlement, Inc 9-2 Component 2	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.231	9-PSI: PJM Settlement, Inc 9-3 Component 1	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.232	9-PSI: PJM Settlement, Inc 9-3 Component 2	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.24	9-PSI: PJM Settlement, Inc 9-4	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1319	9-CAPS: Consumer Advocates of PJM States, Inc. Funding	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1315	9-FERC: FERC Annual Charge Recovery	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1314.1	9-MMU: Market Monitoring Unit (MMU) Funding - Component 1	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1314.2	9-MMU: Market Monitoring Unit (MMU) Funding - Component 2	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1316	9-OPSI: Organization of PJM States, Inc. Funding	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1317	10-NERC: North American Electric Reliability Corporation Charge	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1318	10-RFC: Reliability First Corporation Charge	1.123	1.123	1.123	Text

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Schedule 9 and 10 Daily Usage Details

- Updates effective January 1, 2023
- Add additional rows for 9-PSI, Component 2 to current report

No report format changes; update column 4001.61 to handle 3 decimals

4000.01	4000.02	4000.04	4001.61	4000.74	3004.11	3004.12	3004.13	3004.14	3004.15	3004.16	3004.17	3004.18	3004.19	3004.2	3004.21	3004.22	3004.23	3004.24	3004.25	3004.26	3004.27	3004.28	4000.07
Customer ID	Customer Code	Date	Schedule 9-10 ID) Schedule	RT Load with Losses (MWh)	RT PTP Transmission Use (MWh)		FTR Bid Obligations	FTR Bid Options X5	DA Cleared Increment Offers (MWh)	DA Cleared Decrement Bids (MWh)	DA Cleared Up To Congestion Energy (MWh)	RT Generation (MWh)	RT Network Import Use (MWh)	RT Spot Import Use (MWh)	Transmission Use Excluding Wheel- Throughs	Generation Offer Segments	DA Market Bid/Offer Segments	Unforced Capacity Including FRR (MW)	UCAP Obligation (MW)	RT Schedule 10 Load with Losses (MWh)	Charging Energy	Version
1	Text	MM/DD/YYYY	1301	9-1: Control Area Administration	1.123	1.123																	Text
1	Text	MM/DD/YYYY	1302.1	9-2: Financial Transmission Rights - Component 1			1.123																Text
1	Text	MM/DD/YYYY	1302.2	9-2: Financial Transmission Rights - Component 2				1.123	1.123														Text
1	Text	MM/DD/YYYY	1303.1	9-3: Market Support - Component 1	1.123					1.123	1.123	1.123	1.123	1.123	1.123	1.123						1.123	Text
1	Text	MM/DD/YYYY	1303.2	9-3: Market Support - Component 2													1.123	1.123					Text
1	Text	MM/DD/YYYY	1305	9-4: Capacity Resource and Obligation Management															1.123	1.123			Text
1	Text	MM/DD/YYYY	1313.21	9-PSI: PJM Settlement, Inc 9-1	1.123	1.123																	Text
1	Text	MM/DD/YYYY	1313.221	9-PSI: PJM Settlement, Inc 9-2 Component 1			1.123																Text
1	Text	MM/DD/YYYY	1313.222	9-PSI: PJM Settlement, Inc 9-2 Component 2				1.123	1.123														Text
1	Text	MM/DD/YYYY	1313.231	9-PSI: PJM Settlement, Inc 9-3 Component 1	1.123					1.123	1.123	1.123	1.123	1.123	1.123	1.123						1.123	Text
1	Text	MM/DD/YYYY	1313.232	9-PSI: PJM Settlement, Inc 9-3 Component 2													1.123	1.123					Text
1	Text	MM/DD/YYYY	1313.24	9-PSI: PJM Settlement, Inc 9-4															1.123	1.123			Text
1	Text	MM/DD/YYYY	1314.1	9-MMU: Market Monitoring Unit (MMU) Funding - Component 1	1.123					1.123	1.123	1.123	1.123	1.123	1.123	1.123						1.123	Text
1	Text	MM/DD/YYYY	1314.2	9-MMU: Market Monitoring Unit (MMU) Funding - Component 2													1.123	1.123					Text
1	Text	MM/DD/YYYY	1315	9-FERC: FERC Annual Charge Recovery	1.123	1.123																1.123	Text
1	Text	MM/DD/YYYY	1316	9-OPSI: Organization of PJM States, Inc. Funding	1.123	1.123																1.123	Text
1	Text	MM/DD/YYYY	1317	10-NERC: North American Electric Reliability Corporation Charge																	1.123	1.123	Text
1	Text	MM/DD/YYYY	1318	10-RFC: Reliability First Corporation Charge																	1.123	1.123	Text
1	Text	MM/DD/YYYY	1319	9-CAPS: Consumer Advocates of PJM States, Inc. Funding	1.123																	1.123	Text

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Schedule 9 & 10 Load Reconciliation Charge Summary

- Clean up current Schedule 9 & 10 Load recon report
 - Remove 'Refund' and AC2 columns

4000.01	4000.02	4000.03	4000.04	3000.66	1440.11	1440.01	1441.11	1441.01	1440.12	1440.02	1441.12	1441.02	1442.11	1442.01	1444.11	1444.01	1445.11	1445.01	1446.11	1446.01	1447.11	1447.12	1447.01	1448.11	1448.12	1448.01	1449.11	1449.01	4000.07
				Schedule 9	Schedule 9-1		Schedule 9-1		Schedule 9-3		Schedule 9-3		Schedule 9-6		Schedule 9-		Schedule 9-		Schedule 9-		Schedule 10-	Schedule 10-		Schedule 10-	Schedule 10-		Schedule 9-		
				Load with		Schedule 9-1	Refund Load		Load	Schedule 9-3	Refund Load			Schedule 9-6		Schedule 9-		Schedule 9-		Schedule 9-						Schedule 10-		Schedule 9-	
Customer	Customer	Billing	Doto	Losses	Reconciliation	Load	Reconciliation	Refund Load	Reconciliation	Load	Reconciliation	Refund Load	Reconciliation	AC2 Load	Reconciliation	MMU Load	Reconciliation	FERC Load	Reconciliation	OPSI Load	with Losses	Reconciliation	NERC Load	Losses	Reconciliation	RFC Load	Reconciliation	CAPS Load	Varsian
ID	Code	Month	Date	Reconciliation	Billing	Reconciliation	Reconciliation	Billing	Reconciliation	Reconciliation	Billing	Reconciliation	Billing	Reconciliation	n version														
				Energy	Determinant	Charge (\$)	Energy	Determinant	Charge (\$)	Energy	Determinant	Charge (\$)	Determinant	Charge (\$)															
				(MWh)	(\$/MWh)		(MWh)	(\$/MWh)		(MWh)	(\$/MWh)		(\$/MWh)																
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Add 9-PSI: Schedule 9-1 and 9- PSI: Schedule 9-3 Columns

4000.01	4000.02	4000.03	4000.04	3000.66	1440.11	1440.01	1440.12	1440.02	1443.11	1443.01	1443.12	1443.02	1444.11	1444.01	1445.11	1445.01	1446.11	1446.01	1447.11	1447.12	1447.01	1448.11	1448.12	1448.01	1449.11	1449.01	4000.07
Customer ID	Customer Code	Billing Month	Date	Reconciliatio	1 Load Reconciliatio n Billing	Reconciliatio		Reconciliatio	Load Reconciliatio n Billing	Schedule 9- PSI (9-1) Load Reconciliatio n Charge (\$)	Load Reconciliatio	Load Reconciliation	Reconciliatio n Billing	MMU Load Reconciliatio	Schedule 9- FERC Load Reconciliatio n Billing Determinant (\$/MWh)	FERC Load Reconciliatio	Reconciliatio n Billing	Schedule 9- OPSI Load Reconciliatio n Charge (\$)	Reconciliation	Schedule 10-NERC Load Reconciliatic n Billing Determinant (\$/MWh)	Load Reconciliatio	with Losses Reconciliatio	Schedule 10-RFC Load Reconciliatio: n Billing f Determinant (\$/MWh)	Schedule 10-RFC Load Reconciliatio	Reconciliatio n Billing	CAPS Load Reconciliatio	Version

- Refund Load Reconciliation was applicable through May 2022 bill cycle
- Create new BLI 1443 Load Reconciliation for PJM Settlement, Inc.
- Removal of Refund and AC2 columns and addition of 9-PSI columns will occur in same update effective March 1, 2023.

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- PJM will work on CSV and XML formatting
- Manual 27 changes will be brought as conforming



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Schedule 9-PSI Settlement Update



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