

2021 Summer Merit Order Resettlement

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In accordance with PJM Tariff, section 10.4, and Operating Agreement, section 15.6, billing adjustments are required related to the unrevised Summer 2021 Summer Merit Order file, directing the units that service control area load between MISO and PJM under the PJM/MISO Joint Operating Agreement. The resulting impacts to balancing congestion for the period of August 31, 2021 through November 18, 2021.



Firm Flow Entitlements

- Historic Firm Flows (Impacts)
 - All Control Areas maintained their configuration set April 1st, 2004
 - Serve native load with their Designated Network Resources
 - Import and export energy at historical levels
 - Allocation Process
 - Firm Flow Entitlement (FFE)
- Merit Order File
 - List of units that serve a Control Areas load



Event Summary

June 2021 Aug. 2021 Oct. 2021 Nov. 2021 June 16 Began Aug. 31 Summer • Oct. 27 MISO • Nov. 10 Revised 2021 Merit Order work on the emailed to inquire NNL Merit Order Native Network file was effective. about PJM was submitted to Load (NNL) OATI. resources. Merit Order file. •Oct. 28 PJM began • Nov. 18 Revised updating the NNL NNL Merit Order file Merit Order File. was put in effect.



Impact Evaluation

Mar. 21 Change Order #130 Created Open Access Technology International (OATI) Seasonal Impacts.

May 5 Change Order #130 Executed.

Aug. 10 Change Order #131 Created OATI Monthly Impacts.

- Jan. 24 Allocation evaluation & settlement estimate.
- Apr. 4 Change Order #132
 Created weekly, 2 Day Ahead
 & Day Ahead Impacts.
- Apr. 19 Change Order #132 Executed.

Dec. 2021

Mar. 2022

Apr. 2022

May 2022

Jul. 2022

Aug. 2022

Sep. 2022

2023

Dec. 17 PJM investigating estimation of settlement impacts.

Apr. 20 Created Operating Memo #16 PJM Merit Order Procedure.

Jul. 25 Collaboration with MISO for settlement estimation.

Sep. 15 Change Order #131 Executed.

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- Total Resettlement: \$10,072,302.37
 - Total Number of flowgates: 24
 - Range from 08/31/2021 to 11/18/2021
 - Original Settlement:
 - \$(1,131,798.20) MISO to PJM
 - New Settlement (\$10k Threshold):
 - \$9,478,713.78 PJM to MISO



10 Most Impacted Flowgates

Flowgate ID	Flowgate Name	Resettlement	Original Settlement	New Settlement
25944	Northwest Tap - Purdue 138 kV I/o Westwood - W Lafayette 138 kV	\$ 6,658,320.66	\$ (3,371,072.61)	\$ 3,299,082.36
23576	Sandburg XF3 I/o Oak Grove - Sandburg 345 kV	\$ 1,921,014.32	\$ 1,386,884.48	\$ 3,623,171.79
25103	Cayuga – HillsdaleN 230 kV I/o Dresser-SugarCreek 345 kV	\$ 603,142.85	\$ (829,188.71)	\$ (236,397.85)
24817	Mohomet - Mahomet_TP 138kV I/o Clinton - Oreana - GooseCrk 345 kV	\$ 412,108.46	\$ 831,570.77	\$ 1,254,548.83
26642	Prest - Tibb 138 kV I/o Prairie State - Mt Vernon 345 kV	\$ 348,937.92	\$ (555,990.21)	\$ (188,723.40)
27086	Lafayette 1S 138/230 kV I/o Lafayette 4 138/230 kV	\$ 199,658.99	\$ 497,352.10	\$ 680,228.33
3424	Mt Vernon - W Salem 138 kV I/o Newton-Xenia 345 kV	\$ (169,445.70)	\$ (731,693.40)	\$ (1,253,123.16)
27067	Westwood 345-138 -BK1 I/o Sorenson-Marysvil-765	\$ 158,405.50	\$ 205,963.09	\$ 364,368.59
26203	QuadCities - RockCreek 345 kV I/o QuadCities-Sub91 345/161 kV Sub91 XF	\$ 150,207.63	\$ (73,190.69)	\$ 77,016.94
27079	Laclede Steel North tap-Gilespie 138 l/o Maywood - Herleman 345 kV	\$ (79,794.72)	\$ (25,144.92)	\$ (119,019.22)
	Total	: \$ 10,202,555.91	\$ (2,664,510.10)	\$ 7,501,153.21

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