



Load Response and PRD Test Reduction Settlements

Market Settlements Development
Market Settlements Subcommittee
July 19, 2023

- New settlement rules went into effect with the 2023/2024 delivery year that allows Load Management CSPs to receive credits for testing load management and PRD registrations.
- New billing line items will be created to detail credits for testing and allocated charges.
 - 1246 – Load Response Test Reduction Charge
 - 2246 – Load Response Test Reduction Credit
- 2 existing MSRS reports will be updated and 1 new MSRS report will be created to support billing.
 - Load Response Summary
 - Real-Time Load Response Credits
 - Load Response Test Reduction Zonal Charge Allocations

- Load management tests and retests are eligible for credit equal to the measured reduction adjusted for losses times the appropriate five minute LMP at the load management or PRD registration's pnode.
- Similar to other Load Response settlements, test reduction settlements will be billed on a lag to compensate for time allowed for submittal and verification of required meter data.
- Additional details can be found in Manual 28 section 11.2.1A

- The cost of payments for Emergency Load Response and Pre-Emergency Load Response energy settlements for tests, shall be recovered from Market Participants on a ratio-share basis based on their real-time exports from the PJM Region and from Load Serving Entities on ratio-share basis based on their real-time loads in each Zone for that month where the tests were conducted.

- 2 new line items will be created for billing of Load Response Test Reduction settlements.
- Load Response Test Reduction Charge will be billed under line item 1246 – Load Response Test Reduction.
- Load Response Test Reduction Credit is billed under line item 2246 – Load Response Test Reduction.
- Both line items will appear in monthly billing statements only and reflect all settlement records processed in the billing month, similarly to existing economic load response settlements.
- Line items 1246 and 2246 will be effective June 1, 2023.



Load Response Summary

- New column RT Load Response Test Reduction Credit added to capture hourly total of credit summed from 5 minute interval level.
- New possible data value TEST REDUCTION in Registration Type column.

The following columns will appear in the body of the report:

Online and CSV Column Name	XML Column Name	Column Number	Data Type
Customer ID	CUSTOMER_ID	4000.01	INTEGER
Customer Code	CUSTOMER_CODE	4000.02	VARCHAR2(6)
Billing Month	BILLING_MONTH	4000.03	DATE
EPT Hour Ending	EPT_HOUR_ENDING	4000.05	VARCHAR2(40)
GMT Hour Ending	GMT_HOUR_ENDING	4000.06	VARCHAR2(40)
Registration ID	REGISTRATION_ID	4000.93	NUMBER
Registration Type	REGISTRATION_TYPE	3001.93	VARCHAR2(50)
EDC Account Number	EDC_ACCOUNT_NUMBER	4000.94	VARCHAR2(25)
End Use Customer	END_USE_CUSTOMER	4000.95	VARCHAR2(40)
Zone	ZONE	4000.32	VARCHAR2(50)
DA Load Response MWh	DA_LOAD_RESPONSE_MWH	3001.14	NUMBER(11,3)
DA LMP (\$/MWh)	DA_LMP	3000.24	NUMBER(12,6)
Monthly Net Benefits Test Price (\$)	MON_NET_BEN_TEST_PRICE	3001.92	NUMBER(22,2)
DA Load Response Credit (\$)	DA_DSR_CREDIT	2240.01	NUMBER(22,2)
CBL (kWh)	CBL	1241.11	NUMBER
Metered Load (kWh)	METERED_LOAD	1241.12	NUMBER
Load Response Loss Factor	LOAD_RESPONSE_LOSS_FACTOR	1241.13	NUMBER(6,5)
EDC Loss De-rating Factor	EDC_LOSS_DE_RATION_FACTOR	3000.83	NUMBER(21,9)
RT Load Response Actual Relief (MWh)	RT_LR_ACTUAL_RELIEF	3001.94	NUMBER(22,3)
RT Economic Load Response Credit	RT_ECON_LR_CR	2241.01	NUMBER(22,2)
Emergency Load Response Energy Credit (\$)	LR_EMER_ENRGY_CREDIT	2245.01	NUMBER(22,2)
RT Load Response Test Reduction Credit (\$)	RT_LR_TEST_REDUCE_CREDIT	2246.01	NUMBER(22,2)
Version	VERSION	4000.07	VARCHAR2(12)



Real-Time Load Response Credits

- New column RT Load Response Test Reduction Credit added to capture 5 minute interval level credit.
- New possible data value TEST REDUCTION in Registration Type column.

The following columns will appear in the body of the report:

Online and CSV Column Name	XML Column Name	Column Number	Data Type
Customer ID	CUSTOMER_ID	4000.01	INTEGER
Customer Code	CUSTOMER_CODE	4000.02	VARCHAR2(6)
Billing Month	BILLING_MONTH	4000.03	DATE
EPT Hour Ending	EPT_HOUR_ENDING	4000.05	VARCHAR2(40)
GMT Hour Ending	GMT_HOUR_ENDING	4000.06	VARCHAR2(40)
EPT Interval Ending	EPT_INTERVAL_ENDING	4001.40	VARCHAR2(40)
GMT Interval Ending	GMT_INTERVAL_ENDING	4001.41	VARCHAR2(40)
Registration ID	REGISTRATION_ID	4000.93	NUMBER
Registration Type	REGISTRATION_TYPE	3001.93	VARCHAR2(50)
EDC Account Number	EDC_ACCOUNT_NUMBER	4000.94	VARCHAR2(25)
End Use Customer	END_USE_CUSTOMER	4000.95	VARCHAR2(40)
Zone	ZONE	4000.32	VARCHAR2(50)
RT Load Response Distributed MW	RT_LR_DIST_MW	3001.91	NUMBER(22,6)
RT LMP (\$/MWh)	RT_LMP	3000.25	NUMBER(12,6)
Monthly Net Benefits Test Price (\$)	MON_NET_BEN_TEST_PRICE	3001.92	NUMBER(22,2)
RT Economic Load Response Credit (\$)	RT_ECON_LR_CR	2241.01	NUMBER(22,2)
Emergency Load Response Energy Credit (\$)	LR_EMER_ENRGY_CREDIT	2245.01	NUMBER(22,2)
Emergency Load Response Bid Price (\$/MWh)	DR_EMER_BID	2245.13	NUMBER(22,2)
Shutdown Cost (\$)	DR_EMER_SHUTDOWN	2245.14	NUMBER(22,2)
Emergency Load Response Make Whole Credit (\$)	EMERGENCY_LR_MKWH_CREDIT	2245.02	NUMBER(22,2)
RT Load Response Test Reduction Credit (\$)	RT_LR_TEST_REDUCE_CREDIT	2246.01	NUMBER(22,2)
Version	VERSION	4000.07	VARCHAR2(12)

RT Load Response Test Reduction
Credit = RT LMP * RT Load
Response Distributed MW * 1/12



Load Response Test Reduction Zonal Charge Allocations

- New MSRS report to support BLI 1246 – Load Response Test Reduction Charge. The following columns will appear in the body of the report:

Online and CSV Column Name	XML Column Name	Column Number	Data Type
Customer ID	CUSTOMER_ID	4000.01	INTEGER
Customer Code	CUSTOMER_CODE	4000.02	VARCHAR2(6)
Billing Month	BILLING_MONTH	4000.03	DATE
EPT Hour Ending	EPT_HOUR_ENDING	4000.05	VARCHAR2(40)
GMT Hour Ending	GMT_HOUR_ENDING	4000.06	DATE
Zone	ZONE	4000.32	VARCHAR2(50)
Total PJM RT Load Response Test Reduction Credits (\$)	TOTAL_PJM_RT_TEST_REDUCE_CR	1246.10	NUMBER
RT Load (MWh)	RT_LOAD	3001.12	NUMBER(22,3)
RT Exports (MWh)	RT_EXPORTS	3000.48	NUMBER(22,3)
Total Zones RT Load plus Exports (MWh)	TOTAL_ZONE_RT_LOAD_EXPORTS	1246.11	NUMBER(22,3)
RT Load Response Test Reduction Charge Allocation (\$)	RT_LR_TEST_REDUCE_CH_ALLOC	1246.01	NUMBER
Version	VERSION	4000.07	VARCHAR2(12)

- $$\text{RT Load Response Test Reduction Charge Allocation} = \frac{\text{Total PJM RT Load Response Test Reduction Credits} * (\text{RT Load} + \text{RT Exports})}{\text{Total Zones RT Load plus Exports}}$$

- New MSRS reports will be available with the July 2023 Monthly bill issued August 7, 2023
- New MSRS report documentation will be posted to the MSRS Reports Web Page (<https://www.pjm.com/markets-and-operations/billing-settlements-and-credit/msrs-reports-documentation>) under the Load Response category
 - Pardot communication will be distributed detailing availability of updated documentation
- Please direct any questions related to report updates to mss@pjm.com

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