

Non-Performance Assessment MSRS Report Updates

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- 4 MSRS reports will be updated to support Non-Performance Charge and Bonus Performance Credit settlements and billing with additional details needed for market rule changes implemented since October 2019 PAI event and additional supporting information relevant for Winter Storm Elliott settlement distributions.
- Non-Performance Assessment Unit Performance Details
 - Additional column will be added to detail Secondary Reserve MW contributions to actual performance.
- Non-Performance Assessment DSR Registration Performance Details
 - Additional column will be added to detail Secondary Reserve MW contributions to actual performance.
 - Report will also detail PRD Registration data. No explicit format updates required for PRD details.
- Non-Performance Assessment DSR Resource Charge Details
 - Report will also detail PRD Resource data. No explicit format updates required for PRD details.
- Non-Performance Assessment Billing Month Summary
 - Additional columns to support organization level Net Import MW and RTO wide holdback of Bonus dollar allocation from initial billing.



Non-Performance Assessment Unit Performance Details

- Added column Secondary Reserve Adjustment MW

| 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) |
| Date | DATE | 4000.04 | DATE (MM/DD/YYYY in online and CSV formats, YYYY-MM-DD in XML format) |
| Performance Assessment Interval Ending (EPT) | PA_INTERVAL_END_EPT | 4001.13 | VARCHAR2(40) mm/dd/yyyy HH24:MM format |
| Performance Assessment Interval Ending (GMT) | PA_INTERVAL_END_GMT | 4001.14 | VARCHAR2(40) mm/dd/yyyy HH24:MM format |
| Unit ID | UNIT_ID | 4000.63 | NUMBER |
| Unit Name | UNIT_NAME | 4000.64 | VARCHAR2(80) |
| Resource ID | RESOURCE_ID | 4001.21 | NUMBER |
| Resource Name | RESOURCE_NAME | 4001.22 | VARCHAR2(80) |
| Owned MW | OWNED_MW | 1667.13 | NUMBER |
| Allocated Outage Adjustment MW | ALLOC_OUTAGE_ADJ_MW | 1667.30 | NUMBER |
| Owned MW Adjusted by Outage | OWNED_MW_ADJ_BY_OUTAGE | 1667.33 | NUMBER |
| Total Owned MW Adjusted by Outage | TOT_OWNED_MW_ADJ_BY_OUTAGE | 1667.34 | NUMBER |
| RT Generation MW | RT_GENERATION | 3000.33 | NUMBER(22,3) |
| Regulation Adjustment MW | REG_ADJUSTMENT_MW | 1667.35 | NUMBER |
| Synchronized Reserve Adjustment MW | SYNC_RES_ADJUSTMENT_MW | 1667.36 | NUMBER |
| Non-synchronized Reserve Adjustment MW | NON_SYNC_ADJUSTMENT_MW | 1667.37 | NUMBER |
| Secondary Reserve Adjustment MW | SEC_RES_ADJUSTMENT_MW | 1667.38 | NUMBER |
| RT Export Adjustment MW | RT_EXPORT_ADJUSTMENT_MW | 1667.39 | NUMBER |
| Actual Performance MW | ACTUAL_PERFORMANCE_MW | 1667.40 | NUMBER |
| Allocated Actual Performance MW | ALLOCATED_ACTUAL_PERFORMANCE_MW | 1667.41 | NUMBER |
| Resource Max MW | RESOURCE_MAX_MW | 1667.42 | NUMBER |
| Allocated Resource Max MW | ALLOCATED_RESOURCE_MAX_MW | 1667.43 | NUMBER |
| Scheduled MW for Penalty | SCHEDULED_MW_PEN | 1667.44 | NUMBER |
| Allocated Scheduled MW for Penalty | ALLOCATED_SCHEDULED_MW_PEN | 1667.45 | NUMBER |
| Scheduled MW for Bonus | SCHEDULED_MW_BON | 1667.46 | NUMBER |
| Allocated Scheduled MW for Bonus | ALLOCATED_SCHEDULED_MW_BON | 1667.47 | NUMBER |
| Version | VERSION | 4000.07 | VARCHAR2(12) |

- Updated Supporting calculation for Actual Performance MW:
 - Actual Performance MW = RT Generation + Regulation Adjustment MW + Synchronized Reserve Adjustment MW + Non-synchronized Reserve Adjustment MW + **Secondary Reserve Adjustment MW** - RT Export Adjustment MW



Non-Performance Assessment DSR Registration Performance Details

- Added column Secondary Reserve Adjustment MW

| 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) |
| Date | DATE | 4000.04 | DATE (MM/DD/YYYY in online and CSV formats, YYYY-MM-DD in XML format) |
| Performance Assessment Interval Ending (EPT) | PA_INTERVAL_END_EPT | 4001.13 | VARCHAR2(40) mm/dd/yyyy HH24:MM format |
| Performance Assessment Interval Ending (GMT) | PA_INTERVAL_END_GMT | 4001.14 | VARCHAR2(40) mm/dd/yyyy HH24:MM format |
| Registration ID | REGISTRATION_ID | 4000.93 | NUMBER |
| Registration Name | REGISTRATION_NAME | 4000.95 | VARCHAR2(80 byte) |
| Resource ID | RESOURCE_ID | 4001.21 | NUMBER |
| Resource Name | RESOURCE_NAME | 4001.22 | VARCHAR2(80 byte) |
| Registration Nominated ICAP MW | REG_NOM_ICAP_MW | 1667.60 | NUMBER |
| Total Resource Nominated ICAP MW | TOT_RES_NOM_ICAP_MW | 1667.61 | NUMBER |
| RT Reduction MW | RT_REDUCTION_MW | 1667.62 | NUMBER |
| Regulation Adjustment MW | REG_ADJUSTMENT_MW | 1667.35 | NUMBER |
| Synchronized Reserve Adjustment MW | SYNC_RES_ADJUSTMENT_MW | 1667.36 | NUMBER |
| Secondary Reserve Adjustment MW | SEC_RES_ADJUSTMENT_MW | 1667.38 | NUMBER |
| Actual Performance MW | ACTUAL_PERFORMANCE_MW | 1667.40 | NUMBER |
| Version | VERSION | 4000.07 | VARCHAR2(12) |

- Updated Supporting Calculation for Actual Performance MW:
 - Actual Performance MW = RT Reduction MW + Regulation Adjustment MW + Synchronized Reserve Adjustment MW + **Secondary Reserve Adjustment MW**



Non-Performance Assessment Billing Month Summary

- Added columns Total Import MW, Total Export MW, and Net Import MW to detail contribution to organization's Bonus MW. Net Import MW are only applicable during RTO wide events.
- Added column Total PJM Monthly Bonus Holdback to detail total value of Bonus credit dollars that will be held out of initial month's billing.
- Renamed column Total Available Bonus Performance Credits to Total Potential Bonus Performance Credits.

| 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) |
| Performance Assessment Interval Ending (EPT) | PA_INTERVAL_END_EPT | 4001.13 | VARCHAR2(40) mm/dd/yyyy HH24:MM format |
| Performance Assessment Interval Ending (GMT) | PA_INTERVAL_END_GMT | 4001.14 | VARCHAR2(40) mm/dd/yyyy HH24:MM format |
| Billing Month | BILLING_MONTH | 4000.03 | Date (Mon, YYYY) |
| Performance Assessment Area | PERFORMANCE_ASSESSMENT_AREA | 1667.12 | VARCHAR2(4000) |
| Total Non-Performance Charge (\$) | TOT_NON_PERF_CH | 1667.54 | NUMBER(22,9) |
| Non-Performance Monthly Charge (\$) | NON_PERF_MONTHLY_CH | 1667.01 | NUMBER(22,9) |
| Total Elapsed Non-Performance Monthly Charge (\$) | TOT_ELAPSE_NON_PERF_CH | 1667.55 | NUMBER(22,9) |
| Total Import MW | TOTAL_IMPORT_MW | 2667.16 | NUMBER(22,9) |
| Total Export MW | TOTAL_EXPORT_MW | 2667.17 | NUMBER(22,9) |
| Net Import MW | NET_IMPORT_MW | 2667.18 | NUMBER(22,9) |
| Total Bonus Performance MW | TOT_BONUS_PERFORMANCE_MW | 2667.11 | NUMBER(22,9) |
| Total PJM Bonus Performance MW | TOT_PJM_BONUS_PERFORMANCE_MW | 2667.12 | NUMBER(22,9) |
| Total PJM Non-Performance Monthly Charge (\$) | TOT_PJM_NON_PERF_MONTHLY_CH | 2667.13 | NUMBER(22,9) |
| Total PJM Monthly Bonus Holdback (\$) | TOT_PJM_MONTHLY_BONUS_HOLD | 2667.19 | NUMBER(22,9) |
| Total Potential Bonus Performance Credits (\$) | TOT_POT_BONUS_PERF_CR | 2667.14 | NUMBER(22,9) |
| Bonus Performance Monthly Credit (\$) | BONUS_PERFORMANCE_MONTHLY_CR | 2667.01 | NUMBER(22,9) |
| Total Elapsed Bonus Performance Monthly Credit (\$) | TOT_ELAPSE_BONUS_PERF_CR | 2667.15 | NUMBER(22,9) |
| Version | VERSION | 4000.07 | VARCHAR2(12) |

- Updated Supporting Calculations:
 - Net Import MW = $\text{Max}(\text{Total Import MW} - \text{Total Export MW}, 0)$
 - Total Bonus Performance MW value will be inclusive of Net Import MW and resource level bonus MW
 - Bonus Performance Monthly Credit = $(\text{Total Bonus Performance MW} / \text{Total PJM Bonus Performance MW}) * (\text{Total PJM Non-Performance Monthly Charge} - \text{Total PJM Monthly Bonus Holdback})$

- Detailed MSRS reports presenting resource information combine data sources from multiple PJM tools and market areas with potentially different resource ownership (e.g. capacity resource ownership, energy market ownership and outage tool ownership).
- Because of concerns in exposing market sensitive information, PJM will limit the data displayed on Non-Performance Assessment reports to data owned by the market participant.
- In cases where the data on a report belongs to different owners, only the data belonging to the account logged into MSRS will be displayed. In cases where the logged in account is not the owner of a particular data element, that field will contain a null value.

- Updated 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 RPM 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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**Non-Performance Assessment MSRS
Report Updates**



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