**In the CMRI section, removed reports**

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| Fifteen Minute Market(FMM) Flexible Ramp Price Breakdown | Provide the flexible ramping total price (FRMP) and its BAA level price breakdown, resulting from the FMM/15-minute market outputs. |
| Real Time Dispatch(RTD) Flexible Ramp Price Breakdown | Provide the flexible ramping total price (FRMP) and its BAA level price breakdown, resulting from the RTD/5-minute market outputs. |
|  Flexibile Ramp Requirement Sufficiency Test Results | This report has been moved to OASIS under the Flexible Ramp Requirements Inputs and Output.  |
| Bid Range Capacity Test Results | This report has been moved to OASIS under the WEIM RSE Capacity Test. |
| Resource Operating Limits | Publish the operation range for Overlapping Resource Aggregation (ORA) resources. Overlapping resource aggregation are multiple aggregate market resources that are registered out of the same set of physical units in a Balancing Authority Area (BAA). |

**In the OASIS section….**

**Imbalance Energy Market**

**EIM BAA Hourly Base NSI-** This report will provide the hourly base net scheduled interchange (NSI) for each of the balancing authority areas at the T-40, T-55, and T-75 timeframes.

**EIM BAA Hourly Base Loss-** This report will provide the hourly base loss for each of the balancing authority areas at the T-40, T-55, and T-75 timeframes.

**EIM Transfer Limits-** Provides the WEIM Transfer low and high limits per WEIM Balancing Authority Area group, resulting from the real-time market runs (RTPD and RTD).

• Low limit indicates the minimum limit that can be transferred from a group

• High limit indicates the maximum limit that can be transferred from a group

Starting with the fall 2015 WEIM year 1 activation, this report will no longer be populated with the high and low limits per BAA group. WEIM transfer limits information will be available on the Tie level, via the new report “*EIM Transfer Limits by Tie*”.

**EIM Transfer -** Provides the Western Energy Imbalance Market (EIM) Transfer mw per WEIM Balancing Authority Area Group, resulting from the real-time market runs (RTPD and RTD).

**EIM BAA Dynamic NSI -** Provides the Net Scheduled Interchange (NSI) results based on real-time market runs (RTPD and RTD) per Balancing Authority Area.

**EIM BAA Base NSI -** Provides the Net Scheduled Interchange (NSI) results for the real-time binding intervals, based on the last T-40 snapshot base schedules per Balancing Authority Area.

**EIM Transfer Limits By Tie -** Provides the Western Energy Imbalance Market (EIM) effective energy transfer limit mw of the energy transfer across the tie, resulting from the real-time market runs (FMM/RTPD and RTD).

**EIM Transfer By Tie -** Provides the Western Energy Imbalance Market (EIM) transfer mw across the tie, resulting from the real-time market runs (FMM/RTPD and RTD).

**Flexible Ramping**

**RSE Flexible Ramp Test Requirements Input and Outputs –** This report contains balancing authority area level 15-minute interval data. Additional information about this report –

* Test Status
* Credit - Credits in the upward sufficiency test are net exports, while credits in the downward sufficiency test are net imports.
* Net Import Capability – Balancing area’s net import capability
* Net Export Capability - Balancing area’s net export capability
* Diversity Benefit - Diversity benefit reflects that system-level flexible ramping needs are typically smaller than the sum of the individual area needs.
* Requirement Amount - Flexible ramping sufficiency test requirement.
* Change in load forecast - Change in load forecast from the last binding 15-minute interval prior to the hour to each interval in the hour.
* Net Load Uncertainty - Uncertainty component from historical net load error. The 97.5th and 2.5th percentile of the mosaic quantile regression for net load error are used for the upward and downward uncertainty, respectively.
* Ramping Capacity - Ramping capacity from schedules in the last binding 15-minute interval prior to the hour. Includes both economic energy bids (constrained by unit limitations such as ramp rates) as well as fixed changes in schedules or renewable forecasts.

Insufficiency amount – This is a calculated amount which is computed as the difference of Requirement Amount and Ramping Capacity. **EIM RSE Capacity Test Data -** This report contains balancing authority area level 15-minute interval data. Additional information about this report –

* Test Status – information on capacity test status (pass or fail) for up and down direction
* Generation Base Schedule – generation base schedules
* Import Base Schedule – import base schedules
* Export Base Schedule – export base schedules
* Net Scheduled Interchange
* Net Base Schedule – difference between import and export base schedules
* Net-Load Uncertainty – This feature has been suspended due to suspension of the net load uncertainty adder from the capacity test.
* ~~Intertie Uncertainty - This feature has been suspended using net load uncertainty adder from the capacity test.~~
* BAA Load Forecast -
* Bid Range capacity – information on bid range capacity test imbalance requirement.
* Insufficiency amount – This is a calculated amount which is computed as = (Bid Range Capacity + Generation Base Schedule + Import Base Schedule – Export Base Schedule – BAA load forecast)\*-1
* Required Amount

**Assistance Energy Transfer Opt-In**

* Displays WEIM BAAs who opted in for Assistance transfer per given trade date.

**Flexible Ramp Test Result Groups** – This report publishes the RTD/RTPD flexible ramp sufficiency test results for each EIM entity, allowing participants to determine which EIM entities are part of the EIM area requirement.

**Flexible Ramping Forecasts** – This report includes the total RTD Binding and RTPD 1st interval advisory forecasts for resources grouped by EIM Entity and by technology type (solar, wind, demand)

**Flexible Ramp Requirement Thresholds:** The report contains the uncertainty threshold based on histograms and mosaic for both high and low requirement for flexible ramp requirements by EIM Entity for both 5 min and 15 minute.

**Flexible Ramp Requirement Input Polynomials:** The report contains the polynomial coefficients for both low and high for wind, solar and demand and mosaic by EIM entity for calculating the flexible ramp requirements.

**Flexible Ramp Requirements Input Uncertainty Histograms:** The report contains the uncertainty histogram values for both high and low percentile for wind, solar, demand and net demand used to calculate flexible ramp requirements.

**Flexible Ramp Surplus Demand Curves-** This report includes the Flex ramp up and Flex down surplus price curves by BAA broken up by FRP surplus zones from the RTD and RTPD 1st advisory interval.

**Flexible Ramp Aggregated Awards-** This report will provide the flexible ramping up/down aggregated award totals (MW) for each balancing authority areas (BAA) and the WEIM Area, resulting from RTPD/15minute and RTD/5-minute market runs.

**Uncertainty Movement by Category-** This report will provide the RTD/5min Uncertainty Movement (mw) for each resource category (Supply, Intertie, and Load) by BAA and WEIM Area (each defined as a BAA Group)

**Flexible Ramp Requirements-** This reportcontains balancing authority area-level 15-minute interval data starting on trade date 12/23/2015. Additional information about this report:

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| Flexible Ramp Constraint Requirement is the minimum 15-minute capacity required to meet the flexible ramp constraint for a particular balancing authority area.  |
| Flexible Ramp SufficiencyTest Requirement is an unadjusted amount comprised of two components: uncertainty and net demand movement. The total flexible ramp sufficiency test requirement for a given 15-minute interval is equal to the cumulative sum of the net demand movement for the subject hour up to the corresponding 15-minute interval plus the uncertainty component for the given 15-minute interval. The sum requirement is before diversity benefits, export credits, and net import capability are considered. Net Demand Movement Component is the movement of the forecasted load minus the movement of the forecasted solar and wind power generated minus the change in the net scheduled interchange. Uncertainty Component is equal to the unadjusted Flexible Ramp Constraint Requirement. It represents the 95th percentile range of upward movement in the 5-minute market compared to the 15-minute market. |

Flexible Ramping Product initiative will be active on 11/1/2016, the following report columns will be null:

* Flexible Ramp Constraint Requirement (mw)
* Flexible Ramp Sufficiency Test Requirement‘s Net Demand Movement Component

The Flexible Ramp Product Uncertainty Component value will continue to be published, for both “UP” and “DOWN” Ramp Types based on the Histogram for RTD & FMM.

**Public Bids**

**Market Bid Caps Report**

This is the report that shall publish the Real Time market Bid Cap (e.g. $1000/MWh or $2000/MWh) on an hourly basis.