



# **MSRS Report Format Documentation**

## **Unit Tracking Ramp Details**

**Version 1**

## Revision History

DATE	REVISION	DESCRIPTION
4/29/2026	1	Initial Distribution

## 1 Report

**MSRS Report Name:** Unit Tracking Ramp Details

**Report short name for User Interface:** Unit Tracking Ramp Details

**Download File Name Abbreviation:** TRLD RmpDtl

**Data Granularity:** Sub-Hourly

**Frequency:** Updated Daily

**Range Displayed on Report:** Start Date through End Date

## 2 Supported Billing Line Items

- This report does not specifically support any Billing Line Items.

## 3 Report Content Summary

This report displays the customer account's unit tracking ramp details for each generation unit that they own or jointly own. The generator unit's segment-based Ramp MW values on this report can be used to calculate the unit's Ramp MW values on the tracking ramp limited desired MW (TRLD MW) report. The details in this report do not reflect the customer account's share of jointly owned units. All owners will see the full values associated with the unit.

## 4 Summary of Changes and Special Cases

Segment ID, Segment MW, and Ramp Rate are as specified in Markets Gateway for the Schedule the unit is running on.

## 5 Report Columns

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

Online and CSV Column Name	XML Column Name	Column Number	Data Type
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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)
EPT Interval Ending	EPT_INTERVAL_ENDING	4001.40	VARCHAR2(40) mm/dd/yyyy HH24:MM format (Displays first interval of the day as hour 0 minute 05 and last interval of the day as hour 24 minute 00)
GMT Interval Ending	GMT_INTERVAL_ENDING	4001.41	VARCHAR2(40) mm/dd/yyyy HH24:MM format Displays first interval of the day in relation to EPT interval as hour 04 minute 05 or hour 05 minute 05 (EDT/EST depending) and last interval of the day as hour 04 minute 00 of the next day or hour 05 minute 00 of the next day (EDT/EST depending)
Unit ID	UNIT_ID	4000.63	NUMBER(15,0)
Unit Name	UNIT_NAME	4000.64	VARCHAR2(75)
Ramp Type	RAMP_TYPE	3004.55	VARCHAR2(25) See possible values below
Segment ID	SEGMENT_ID	4001.33	NUMBER
Segment MW	SEGMENT_MW	3004.56	NUMBER
Ramp Rate	RAMP_RATE	3004.57	NUMBER
Previous Power TRLD MW	PREV_POWER_TRLD_MW	3004.36	NUMBER
Dispatch LMP Desired MW	DISPATCH_LMP_DESIRED_MW	3002.42	NUMBER
Ramp Duration	RAMP_DURATION	3004.58	NUMBER
Ramp MW	RAMP_MW	3004.35	NUMBER
Regulation Ramp Share MW	REG_RAMP_SHARE_MW	3004.43	NUMBER
Version	VERSION	4000.07	VARCHAR2(12)

Possible values for Ramp Type: "TRLD" or "Adjusted TRLD"

## 6 CSV Report Example

See Excel file titled "Unit Tracking Ramp Details CSV Format.csv"

## 7 XML Report Example

See XML file titled “Unit Tracking Ramp Details XML Format.xml”

## 8 Supporting Information/Calculations

### Markets Gateway Input Parameters:

- Segment MW is the maximum MW level to which the segment’s ramp rate applies.
  - Note: Min MW values are not specified. Instead, each segment’s Min MW = the previous segment’s specified MW level (and equals 0 MW when Segment ID = 1)
- Ramp rate is the unit’s segment-based ramp rate MW per minute applied to the Ramp MW calculation.

### Ramp Duration and Ramp MW Calculation:

The amount of ramp available within a 5-minute interval will vary if the difference between the Previous Power TRLD MW and Dispatch LMP Desired spans the unit’s segmented ramp MW points. As a result, the ramp able to be achieved in an interval may be split between ramp segments (designated by multiple rows for the same interval, differentiated for each Ramp Segment ID).

If Dispatch LMP Desired MW > Previous Power TRLD MW (i.e. the unit is desired to ramp up), then for each applicable ramp segment (in increasing order) :

- Ramp Duration =  $\text{MIN} ((\text{MIN} (\text{Dispatch LMP Desired MW}, \text{Current Segment MW}) - \text{MAX} (\text{Previous Power TRLD MW}, \text{Previous Segment MW})) / \text{Ramp Rate}, 5 - \text{sum of Lower Ramp Rate Segment Ramp Durations})$
- When the calculation is performed for the first applicable ramp interval, the Previous Ramp Segment Ramp Duration is 0 MW.
  - Ramp MW (3004.35) = Ramp Rate (3004.57) \* Ramp Duration (3004.58)

Else if Dispatch LMP Desired MW < Previous Power TRLD MW (i.e. the unit is desired to ramp down), then for each applicable ramp segment (in decreasing order), then:

- Ramp Duration =  $\text{MIN} ((\text{MIN} (\text{Previous Power TRLD MW}, \text{Current Segment}) - \text{MAX} (\text{Dispatch LMP Desired MW}, \text{Previous Segment MW})) / \text{Ramp Rate}, 5 - \text{sum of Higher Ramp Rate Segment Ramp Durations})$
- Ramp MW (3004.35) = Ramp Rate (3004.57) \* Ramp Duration (3004.58) \* -1

Regulation Ramp Share details will be shared in a future update.