1. Procedure Detail

1.1. Purpose

Provides guidelines for the different logging scenarios used by the Real-Time Market Operator.

Most logs will be in the nature of the notes. And in general will reflect actions taken (manual) in the Market by the RTMO.

Instances of Western Energy Imbalance Market (WEIM) transfer curtailments will not be logged unless unusual or not tracked by another process.

1.2. Real-Time Market Desk Logging Types

The following represents the Real-Time Market Desk-specific logging types and their descriptions:

1. RT Market Notes->Commitment Override
2. RT Market Notes->ETSR Status Change (Lock/Unlock)
3. RT Market Notes->IFM/RTM Maintenance (DB Promotion, Fall/Spring Releases)
4. RT Market Notes->BA Contingency (includes CAISO RTCD).
5. RT Market Notes->RT Market Info
6. RT Market Notes-> Use Advisory / Previous Solution
7. RT Market Notes-> Threshold Exceedance (ETSR/Gen/Intertie)
8. GRC->Monthly AWE Test (Performed at the discretion of the Shift Manager)
9. Day Ahead Desk->RUC Energy Net Short Adjustments
10. Day Ahead Desk->Bypass Ancillary Services
11. Day Ahead Desk->DAM Flow Limit Bias
12. Day Ahead Desk->DAM AS Procurement Deviation
13. Day Ahead Desk->DAM Late Closing
14. Day Ahead Desk->DAM Final Results Expected Publishing
15. Day Ahead Desk->DAM Final Results Actual Publishing
16. Day Ahead Desk->Extra Long Start Commitments (ELC)
17. Day Ahead Desk->DAM Other Market Info
18. Day Ahead Desk->DAM Disruption
1.3. Log Entry Detail

<table>
<thead>
<tr>
<th>#</th>
<th>Event</th>
<th>Event Description</th>
<th>Utilize Existing Main Fields</th>
<th>Text Field Contents:</th>
<th>IGOR?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Commitment Override</td>
<td>Performed at the request of any WEIM participant, the RTMO can change the initial condition of a resource to better match the resource's subsequent market dispatches to its current operations. Note: Create a single SLIC log for any overrides performed per trade day.</td>
<td>• Event DTS and time&lt;br&gt;• Contact Name (RTMO)&lt;br&gt;• Under Short Description type “Commitment Override”</td>
<td>Utilize template in SLIC log 10493953 for consistency. Repeat the template in the same SLIC log per shift.</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Utilize RT Market</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>Notes Log Type</td>
<td></td>
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<tr>
<td>2</td>
<td>ETSR Status Change (Lock/Unlock)</td>
<td>Preferably performed at the request of WEIM participants but can be performed unilaterally, the ETSR lock (entered on both the import and export on the ETSR Block UI) locks the ETSR to zero or its non-zero base schedule. Note: A separate unlock SLIC log is recommended if the ETSR is locked for a long duration, otherwise for short duration locking, the lock and unlock actions may reside in one log.</td>
<td>• Resource Type (leave as “Not Found” as ETSRs are not in SLIC&lt;br&gt;• BA (PAC1, PSE1/PSE2, NVE1/MEIM), APSS5&lt;br&gt;• Resource Name (leave as “Not Found”)&lt;br&gt;• Event DTS and time&lt;br&gt;• Contact Name (RTMO)&lt;br&gt;• Contact DTS (and time)&lt;br&gt;• Under Short Description type “ETSR Lock” with a pipe symbol (e.g.,</td>
<td>) and the ETSR Name(s) (e.g., “PACE”) For example: ETSR Lock</td>
<td>Add time (e.g., 1445), BA, WEIM Operator name, reason narrative (including expected ETA), and specific ETSR action taken (e.g., ETSR locked on all markets RTD/RTPD/STUC). Also add detail of the telephony and Everbridge notifications. Example:</td>
</tr>
<tr>
<td></td>
<td>Utilize RT Market</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Notes Log Type</td>
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</tr>
<tr>
<td>#</td>
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<td>3</td>
<td>IFM/RTM System Maintenance, DB Promotion, Fall &amp; Spring Releases Utilize RT Market- &gt; RT Market Notes Log Type</td>
<td>When notified by Operations Readiness, the RTMO places the market in manual at the direction of MES, and returns the market back to automatic after the installation is completed.</td>
<td>• Resource Type (leave as “Not Found” as ETSRs are not in SLIC • BA (“Not Found”) • Resource Name (leave as “Not Found”) • Event DTS and time) • Contact Name (RTMO) • Contact DTS (and time) Under Short Description type “IFM/RTN Maintenance”)</td>
<td>RTMO called AZPS/Michael and sent an Everbridge to all WEIM participants. Add time (e.g., 1445), of all telephony and Everbridge pre-installation notifications, the detail of when each market module is placed in Manual, and back in Automatic. Add time (e.g., 1445), of all telephony and Everbridge post-installation notifications. Also add any narrative of installation issues. Example: 1216: RTMO notified WEIM entities via Everbridge notification that CAISO has scheduled maintenance (patch) for IFM/RTN @ 14:23 Market Processes Put in Manual: RTPD @ 14:18 RTD @ 14:21 STUC @ 14:22 RTBS @ 14:23 Market Processes Put in Automatic: RTPD @ 14:32 RTD @ 14:32 STUC @ 14:32 RTBS @ 14:32 1433: Notified WEIM entities via Everbridge notification that IFM/RTN patch complete and available for login.</td>
<td>No, unless the IFM/RTM Maintenance results in an unplanned outage and misses the next HASP run.</td>
</tr>
<tr>
<td>4</td>
<td>BA Contingency, Or</td>
<td>In the event a WEIM participant experiences an event that</td>
<td>• Resource Type (leave as “Not Found”)</td>
<td>Add time (e.g., 1445) of when the contingency was initiated, the reason provided by the BA and</td>
<td>Yes</td>
</tr>
<tr>
<td>#</td>
<td>Event</td>
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</tbody>
</table>
| CAISO RTCD | Utilize RT Market- > RT Market Notes Log Type | impacts their BA, the market contingency option tells the market hold the net ETSR transfers at their existing levels. If the WEIM participant is CISO, an RTCD event is run and contingency resources are dispatched through the market. | • BA (PAC1, PSE1/PSE2, NVE1/MEIM, APS5)  
• Resource Name (if due to a particular resource, add or otherwise leave as “Not Found”)  
• Event DTS and time)  
• Contact Name (RTMO)  
• Contact DTS (and time)  
Under Short Description type “BA XXX Commitment” For example: “PACE Contingency” | the telephony and Everbridge notifications. In the same log add the time when the BA was no longer in a contingency, and of all post telephony and Everbridge notifications. |  |
| | | | | Example: |  |
| | | | | 1243: PACW activated contingency flag in RTN due to Merwin generation unit trip. |  |
| | | | | RTMO notified all WEIM entities via Everbridge notification. |  |
| | | | | 1315: PACW no longer in contingency. |  |
| | | | | RTMO notified all WEIM entities via Everbridge notification. |  |
| 5 | “Any Real Time System Trouble” | In the event a computer system issue at the CAISO, the RTMO is on point to engage IT Teams and keep all WEIM Participants appraised of the progress and timely resolution. If a WEIM participant reports their own computer system issue, the RTMO confirms the issue and subsequent fix is on their side, assists as requested, and logs as required. | • Resource Type (leave as “Not Found”)  
• BA (“Not Found”)  
• Resource Name (leave as “Not Found”)  
• Event DTS and time)  
• Contact Name (RTMO)  
• Contact DTS (and time)  
Under Short Description type the name of the system and the failure  
CAISO Examples: “RTPD Failure” or “SIBR/BSAP Issues” or “RTPD Advisory Run” or “Market Used | Add approximate time (e.g., 1445) of when the system issue occurred, add all the detailed reason narrative (including any Sev actions taken) and the telephony and Everbridge notifications (if necessary, unless the issue is isolated to a single WEIM participant like “NVE phone issues”) In the same log add the time when the system returns to normal, any note any cause(s) identified and any post telephony and Everbridge notifications. | Yes, for core Computer Systems Trouble (e.g., EMS, ADS, ITS, IFM/RTM).  
For other systems, use judgement to identify log entries to be flagged for inclusion in the IGOR. |
<table>
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</thead>
</table>
| 6 | Use Advisory /Previous Solution Utilize RT Market- > RT Market Notes Log Type | In the event of an Advisory or Previous Solution not related to a threshold exceedance, the RTMO confirms the issue and escalates if necessary. | - Resource Type (leave as “Not Found”)  
- BA (“Not Found”)  
- Resource Name (leave as “Not Found”)  
- Event DTS and time  
- Contact Name (RTMO)  
- Contact DTS (and time)  
- Under Short Description type either RTD or RTPD and either Previous or Advisory Run. | Add approximate time (e.g., 1445) of when the event occurred, add all the detailed reason narrative (including any Sev actions taken) and when the system returned to normal. Also note any cause(s) identified or notifications made. | Use judgement to identify significant events to be flagged for inclusion in the IGOR. |
|   |   | Example: “RTPD Advisory Run” | Example:  
2148: RTPD Advisory Run (HASP). RTMO called the Service Desk requesting MES on-call support. RTMO notified WEIM entities via Everbridge notification.  
2200: MES/Xiaochen found:  
Bound infeasibility column ‘PENE_0772_000’. ELSEGN_2_UN1011_D1  
Subsequent RTPD runs were successful. MES and RTMO stayed connected via conference call until the following HASP run to ensure issue did not repeat.  
2259: HASP run successful without error.  
2300: RTMO notified all WEIM entities via Everbridge notification. |   |

Use Advisory /Previous Solution Utilize RT Market Notes Log Type
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</table>
| 7 | Threshold Exceedance (ETSR/Gen/Intertie) Utilize RT Market > RT Market Notes Log Type | In the event of a threshold exceedance, the RTMO confirms to validity of the dispatch, investigates the cause and logs the event for Root Cause analysis team review. | • Resource Type (leave as “Not Found”)  
• BA (“Not Found”)  
• Resource Name (leave as “Not Found”)  
• Event DTS and time)  
• Contact Name (RTMO)  
• Contact DTS (and time)  
• Under Short Description type **WEIM** entity and market threshold exceeded.  

Example: “RTD AZPS WEIM Threshold Exceeded” | Add the type (ETSR/Gen/Intertie), approximate time (e.g., 1445) of when the event occurred, add all the detailed reason narrative (including any Sev actions taken) and when the system returned to normal. Also note any cause(s) identified or notifications made.  

Example:  
0801 RTD for IE 0810 had AZPS Exceeding ETSR INC of 500 by 31 at 531, and Gen DEC of -500 by -2 at -502. Total Delta Sum for the dispatch was +32. Wayne at AZPS was ok with the results and the dispatch was unblocked and sent. | Use judgement to identify significant events to be flagged for inclusion in the IGOR. |
| 8 | Monthly AWE Test | The RTMO tests the AWE monthly as prescribed in our Business Continuity Plan.  
Note: At present, the AWE monthly test is not specifically an RTMO task. Who performs and logs the monthly AWE test is at the discretion of the Shift Manager. | • Resource Type (leave as “Not Found”)  
• BA (“Not Found”)  
• Resource Name (leave as “Not Found”)  
• Event DTS and time)  
• Contact Name (RTMO)  
• Contact DTS (and time)  
• Under Short Description type the “Monthly AWE Test Message”  

Example: “Monthly AWE Test Message” | Add time (e.g., 1445) of when the monthly test message was sent. The entire AWE message may be included in the log.  

Example:  
0806 Monthly AWE test message sent  

This is the monthly test of the California ISO Alert, Warning & Emergency (AWE) Notification System.  

This is only a test - NO ACTION REQUIRED.  
Notice issued at: 05/03/2017 08:06. | No |
| 9 | RUC Energy Net Short Adjustments | The RTMO creates a log of any RUC Net short and the reason. | • Resource Type (leave as “Not Found”)  
• BA (“Not Found”) | Add Trade Date (tomorrow) in Attributes, the HE the adjustment starts, the HE the adjustment end, the adjustment reason from the drop down list, under “Other Reason” put the zone (System, Yes |
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</table>
| 10 | Bypass Ancillary Services (“AS Block”) | The RTMO creates a log of resources that were AS blocked due to potential congestion (at the CAISO’s choice). A log is not created for every resource that blocks their own AS. Note: For long-term AS blocking events, the MNS notification and SLIC log is performed on a monthly basis. | • Resource Name (leave as “Not Found”)  
• Event DTS (Today and current time)  
• Contact Name (Shift Manager)  
• Contact DTS (Today and current time)  
• Under Short Description type the “RUC Net Short for 8/16” | SCE, PGE, SDGE, the Adjustment Value (MWs) and the adjustment value type (leave set as MWs). Example: For 08/16/2017 from HE 8 to 22. Energy Net Short was adjusted to 500 MWs for Load Forecast Error / System. | No |

This document is controlled when viewed electronically.
When downloaded or printed, this document becomes UNCONTROLLED.
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</table>
| 11 | DAM Flow Limit Bias    | This logs records when any Flowgate, Nomogram, Branch Group (Intertie), or Contingency is biased either via an OMS card or manually as a result of the 08:00 meeting or other real-time decision for the Day-Ahead market.                                                                                   | • Resource Type (leave as “Not Found”)  
• BA (“Not Found”)  
• Resource Name (leave as “Not Found”)  
• Event DTS (Today and current time)  
• Contact Name (None)  
• Contact DTS (None)  
• Short Description (“DAM Conformance for “Flowgate Name”)  
Example: DAM Conformance for 30060_MIDWAY_500_24156_VINCENT_500_BR_2_3 | Enter the Trade Date start and end for tomorrow, the constraint, the name and the percentage.  
Example:  
Based upon discussion SM McGowan and crew. This was outage based and conformance was applied to 7785196.  
Start Trade Date: 02/07/2020, End Trade Date: 03/12/2020  
Constraint Type: Flowgate  
Constraint Name: 30060_MIDWAY_500_24156_VINCENT_500_BR_2_3  
Percent Bias: 85 | No     |
| 12 | DAM AS Procurement Deviation | This logs records changes to the AS requirements including regulation up and down minimums, region percentage changes, custom MSSC changes or load forecast percentage changes, for example.                                                                                                                                                           | • Resource Type (leave as “Not Found”)  
• BA (“Not Found”)  
• Resource Name (leave as “Not Found”)  
• Event DTS (Today and current time)  
• Contact Name (Shift Manager)  
• Contact DTS (Today and time)  
• Short Description of event, Example “DA REG Up/Dn adjustments”  
For trade date 03/01/2020 to 03/01/2020, the following AS requirements were procured in the DA:  
Deviations:  
Regulation Up  
From HE 08 to HE 18  
650 MWs. | Enter free text of the event  
Example:  
For trade date 03/01/2020 to 03/01/2020, the following AS requirements were procured in the DA:  
Deviations:  
Regulation Up  
From HE 08 to HE 18  
650 MWs. | No     |
| 13 | DAM Late Closing       | This logs records the event when the DAM is closed after 10:00                                                                                                                                                                                                                                                                                          | • Resource Type (leave as “Not Found”)  
• BA (“Not Found”)  
• Resource Name (leave as “Not Found”)  
• Event DTS (Today and current time)  
• Contact Name (None)  
• Contact DTS (None)  
• Short Description of event, Example “Late Reason, Trade Date (tomorrow), the expected close time and the actual close time.” | Enter the Late Reason, Trade Date (tomorrow), the expected close time and the actual close time. | No     |
<table>
<thead>
<tr>
<th>#</th>
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<th>Utilize Existing Main Fields</th>
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<th>IGOR?</th>
</tr>
</thead>
</table>
| This is a Day-Ahead Log Type | This logs records the event when the DAM was expected to be Published and the MNS sent | • Resource Type (leave as “Not Found”)  
• BA (“Not Found”)  
• Resource Name (leave as “Not Found”)  
• Event DTS (Today and current time)  
• Contact Name (None)  
• Contact DTS (None) | Enter the Trade Date (tomorrow), and Expected Publish Time.  
Example:  
Final Day-Ahead Results for trade date 07/16/2019 that are normally published before 13:00 PPT today 07/15/2019 will be delayed. | No |
| 14 | DAM Final Results Expected Publishing | This is a Day-Ahead Log Type | | | |
# Event | Event Description | Utilize Existing Main Fields | Text Field Contents: | IGOR?
--- | --- | --- | --- | ---
15 | DAM Final Results Actual Publishing | This logs records the event when the DAM was Published and the MNS sent | • Resource Type (leave as “Not Found”)
• BA (“Not Found”)
• Resource Name (leave as “Not Found”)
• Event DTS (Today and current time)
• Contact Name (None)
• Contact DTS (None)
• Short Description Example “Final DA Published” | Enter the Trade Date (tomorrow), and Actual Publish Time.

Example:

*The Final Day Ahead Results were published at 13:06 for 06/25/2017.*

*Note that Final Day Ahead Results for 06/25/2017 are expected to be publish by 13:00 as outlined in the CAISO Tariff.*

*Sent by Market Operations. Inquiries please contact the Day Ahead Desk.* | No

16 | Extra Long Start Commitment (ELC) | This log records when a manual ELC or Day Ahead ED was created by use of a single-resource MOC. | • Resource Type (leave as “Not Found”)
• BA (“Not Found”)
| Enter the details of the ELC. Refer to desktop Operating Procedure RTM-004 Extremely Long Start Commitment (ELC) and Day Ahead ED Guide and Logging Instructions | No
### Real-Time Market Desk Logging

#### Procedure No.
5210E

#### Version No.
2.2

#### Effective Date
2/16/2023

### Distribution Restriction:
None

<table>
<thead>
<tr>
<th>#</th>
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</tr>
</thead>
</table>
| 17 | DAM Other Market Info | This logs records unique DAM events such as DAM System issues, ELC blocking, infeasible Day-Ahead results or Gas Curtailment messaging. | • Resource Type (leave as “Not Found”)  
• BA (“Not Found”)  
• Resource Name (leave as “Not Found”)  
• Event DTS (Today and current time)  
• Contact Name (Shift Manager)  
• Contact DTS (Today and time)  
• Short Description of event  
Example “Day-Ahead Nodal Constraint Change” | Enter free text of the event  
Example:  
*Adjusted a nodal constraint on Helms for Trade date.* | Use judgement to identify log entries to be flagged for inclusion in the IGOR. |
| 18 | DAM Disruption | This logs records if the DAM is disrupted (unable to complete or other severe issues) | • Resource Type (leave as “Not Found”)  
• BA (“Not Found”) | Enter Trade data and Market Module that did not finish (e.g., RUC) | Yes |

---

# Event  
This is a Day-Ahead Log Type

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### Example:

**Operating Date:** 09/12/2019, the CAISO sent an Exceptional Dispatch as follows:

**EDE Instruction:**

*Resource: ALAMITOS GEN STA. UNIT 6*

*Instruction type: OTHER, Reason: N/A, ______ GOTO MWs: 70*

*Verbal Dispatch? Yes*

*Start Verbal Dispatch: ______, End Verbal Dispatch: ______*

*Constraint Type: Start Up - Minimum EDE Market Type: DA HE: 02*
<table>
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<tr>
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</tr>
</thead>
</table>
|   | This is a rare event | | • Resource Name (leave as “Not Found”)  
• Event DTS (Today and current time)  
• Contact Name (Shift Manager)  
• Contact DTS (Today and time)  
• Short Description of event | Example:  
*RUC could not complete. MES published RUC awards from payload.* | |

Example “Day-Ahead Market Disruption”
2. Supporting Information

Operationally Affected Parties

Shared with the Public.

References

Resources studied in the development of this procedure and that may have an effect upon some steps taken herein include but are not limited to:

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<th>CAISO Tariff</th>
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<tr>
<td>CAISO Operating Procedure</td>
</tr>
<tr>
<td>NERC Requirements</td>
</tr>
<tr>
<td>WECC Criterion</td>
</tr>
<tr>
<td>Other References</td>
</tr>
</tbody>
</table>

Definitions

Unless the context otherwise indicates, any word or expression defined in the Master Definitions Supplement to the CAISO Tariff shall have that meaning when capitalized in this Operating Procedure.

The following additional terms are capitalized in this Operating Procedure when used as defined below:

None.

Version History

<table>
<thead>
<tr>
<th>Version</th>
<th>Change</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td>Updated to remove any and all related references of procedures being retired – 5210, 5210D, and 5220.</td>
<td>8/24/17</td>
</tr>
<tr>
<td>2.0</td>
<td>Periodic Review: Section 1.1: Removed reference to OP 5210 since it was retired. Added Section 1.3 SLIC Log Contingency Recommendations for the RTMO Desk. Minor format and grammar updates.</td>
<td>5/07/20</td>
</tr>
<tr>
<td>Version</td>
<td>Change</td>
<td>Date</td>
</tr>
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<td>---------</td>
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<td>---------</td>
</tr>
<tr>
<td>2.1</td>
<td>Section 1.3, Item #5: Removed reference to procedure 5230 from the “IGOR?” column, since the procedure was retired and no longer applicable.</td>
<td>10/20/22</td>
</tr>
<tr>
<td>2.2</td>
<td>Periodic Review: Updated all instances of EIM to WEIM, spelling out the first instance. Updated remaining instances of ISO to CAISO, “Real Time” to “Real-Time”, “Day Ahead” to “Day-Ahead”, and “A/S” to “AS”. Removed history prior to five years.</td>
<td>2/16/23</td>
</tr>
</tbody>
</table>