# 1. Procedure Detail

## 1.1. Purpose

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

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

## 1.2. Market Operator Logging Types

The following represents the Market Operator specific logging types and their descriptions:

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

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## 1.3. Log Entry Detail

| # | Event | Event Description | Utilize Existing Main Fields | Text Field Contents: | IGOR? |
|---|-------|-------------------|------------------------------|----------------------|-------|
| 2 | ETSR Status Change (Lock/Unlock)<br><br>Utilize RT Market-> RT Market Notes Log Type | 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.<br><br>*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.* | • Resource Type (leave as "Not Found" as ETSRs are not in SLIC<br>• BA (PAC1, PSE1/PSE2, NVE1/MEIM), APS5)<br>• Resource Name (leave as "Not Found")<br>• Event DTS and time)<br>• Contact Name (Market Operator)<br>• Contact DTS (and time)<br>• Under Short Description type "ETSR Lock " with a pipe symbol (e.g., \| ) and the ETSR Name(s) (e.g., "PACE")  For example: ETSR Lock \| AZPS_PINT_PACE_I_EIMDYN | 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.<br><br>Example:<br><br>*1612: PAC/Wes reports line outage that requires ETSR lock (limit the supplemental awards to 0 MW but Base Schedule and 15-min awards will still be honored) on their import & export to AZPS for the Pinto ETSR.  No ETA on the line outage - PAC will contact the Market Operator as soon as they have one.  Market Operator performed the ETSR lock in RTD, RTPD & STUC.*<br><br>*Market Operator called AZPS/Michael and sent an Everbridge to all WEIM participants.* | Yes |
| 3 | IFM/RTM System Maintenance, DB Promotion, Fall & Spring Releases<br><br>Utilize RT Market-> RT Market Notes Log Type | When notified by Operations Readiness, the Market Operator places the market in manual at the direction of MES, and returns the market back to automatic after the installation is completed. | • Resource Type (leave as "Not Found" as ETSRs are not in SLIC<br>• BA ("Not Found")<br>• Resource Name (leave as "Not Found")<br>• Event DTS and time)<br>• Contact Name (Market Operator)<br>• Contact DTS (and time)<br>Under Short Description type "IFM/RTN Maintenance") | 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.<br><br>Example: | No, unless the IFM/RTM Maintenance results in an unplanned outage and misses the next HASP run. |

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| # | Event | Event Description | Utilize Existing Main Fields | Text Field Contents: | IGOR? |
|---|-------|------------------|------------------------------|---------------------|-------|
| | | | | *1216: Market Operator 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.* | |
| 4 | BA Contingency, Or CAISO RTCD Utilize RT Market-> RT Market Notes Log Type | In the event a WEIM participant experiences an event that 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. | • Resource Type (leave as "Not Found" <br> • BA (PAC1, PSE1/PSE2, NVE1/MEIM), APS5) <br> • Resource Name (if due to a particular resource, add or otherwise leave as "Not Found" <br> • Event DTS and time) <br> • Contact Name (Market Operator) <br> • Contact DTS (and time) | Add time (e.g., 1445) of when the contingency was initiated, the reason provided by the BA and 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. <br><br> Example: <br><br> *1243: PACW activated contingency flag in RTN due to Merwin generation unit trip.* | Yes |

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| | California ISO | **Operating Procedure** | Procedure No. | 5210E |
|---|---|---|---|---|
| | | | Version No. | 2.4 |
| | | | Effective Date | 11/01/23 |

| **Market Operator Logging** | **Distribution Restriction: None** |
|---|---|

| # | Event | Event Description | Utilize Existing Main Fields | Text Field Contents: | IGOR? |
|---|---|---|---|---|---|
| | | | Under Short Description type "BA XXX Commitment" For example: "PACE Contingency" | *Market Operator notified all WEIM entities via Everbridge notification.*<br><br>*1315: PACW no longer in contingency.*<br><br>*Market Operator notified all WEIM entities via Everbridge notification.* | |
| 5 | "Any Real-Time System Trouble"<br><br>Utilize RT Market-> RT Market Notes Log Type<br><br>***Note:** Do not use for Day-Ahead (IFM Issues).* | In the event a computer system issue at the CAISO, the Market Operator 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 Market Operator confirms the issue and subsequent fix is on their side, assists as requested, and logs as required. | • Resource Type (leave as "Not Found"<br>• BA ("Not Found")<br>• Resource Name (leave as "Not Found")<br>• Event DTS and time)<br>• Contact Name (Market Operator)<br>• Contact DTS (and time)<br>Under Short Description type the name of the system and the failure<br><br>CAISO Examples: *"RTPD Failure" or "SIBR/BSAP Issues" or "RTPD Advisory Run" or "Market Used Previous Solution," "Market Disruption" or "ALFS Issue")*<br><br>WEIM Participant examples: *"NVE Phone Issues" or "PSE Telemetry issues"* | 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.<br><br>Example:<br><br>*2148: RTPD Advisory Run (HASP). Market Operator called the Service Desk requesting MES on-call support. Market Operator notified WEIM entities via Everbridge notification.*<br><br>*2200: MES/Xiaochen found:*<br>*Bound infeasibility column 'PENE_0772_000'.*<br>*ELSEGN_2_UN1011_D1*<br>*Subsequent RTPD runs were successful. MES and Market Operator stayed connected via conference call until the following HASP run to ensure issue did not repeat.* | Yes, for core Computer Systems Trouble (e.g., EMS, ADS, ITS, IFM/RTM).<br><br>For other systems, use judgement to identify log entries to be flagged for inclusion in the IGOR. |

| # | Event | Event Description | Utilize Existing Main Fields | Text Field Contents: | IGOR? |
| --- | --- | --- | --- | --- | --- |
| | | | | *2259: HASP run successful without error.*<br><br>*2300: Market Operator notified all WEIM entities via Everbridge notification.* | |
| 6 | Use Advisory /Previous Solution<br><br>Utilize RT Market-> RT Market Notes Log Type | In the event of an Advisory or Previous Solution not related to a threshold exceedance, the Market Operator confirms the issue and escalates if necessary. | • Resource Type (leave as "Not Found"<br>• BA ("Not Found")<br>• Resource Name (leave as "Not Found")<br>• Event DTS and time)<br>• Contact Name (Market Operator)<br>• Contact DTS (and time)<br>• Under Short Description type either RTD or RTPD and either Previous or Advisory Run.<br><br>Example:  *"RTPD 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.<br><br>Example:<br><br>*For binding interval ending 0915 the RTPD process failed in SCUC producing an Advisory run. SCUC process noted error FRTR_0450_004 METEC_2_PL1X3_1X1 at TI: 4. Tony Feng MES investigating.*<br><br>*Next interval ran without error.* | Use judgement to identify significant events to be flagged for inclusion in the IGOR. |
| 7 | Threshold Exceedance (ETSR/Gen/ Intertie)<br><br>Utilize RT Market-> RT Market Notes Log Type | In the event of a threshold exceedance, the Market Operator 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"<br>• BA ("Not Found")<br>• Resource Name (leave as "Not Found")<br>• Event DTS and time)<br>• Contact Name (Market Operator)<br>• Contact DTS (and time)<br>• Under Short Description type WEIM entity and market 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.<br><br>Example:<br><br>*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* | Use judgement to identify significant events to be flagged for inclusion in the IGOR. |

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| # | Event | Event Description | Utilize Existing Main Fields | Text Field Contents: | IGOR? |
|---|---|---|---|---|---|
| | | | Example: *"RTD AZPS WEIM Threshold Exceeded"* | *+32. Wayne at AZPS was ok with the results and the dispatch was unblocked and sent.* | |
| 8 | Monthly ONS Test | The Market Operator tests the ONS monthly as prescribed in our Business Continuity Plan. *Note: At present, the ONS monthly test is not specifically a Market Operator task. Who performs and logs the monthly ONS test is at the discretion of the Manager of Real-Time Operations.* | • Resource Type (leave as "Not Found" <br> • BA ("Not Found") <br> • Resource Name (leave as "Not Found") <br> • Event DTS and time) <br> • Contact Name (Market Operator) <br> • Contact DTS (and time) <br> • Under Short Description type the "Monthly ONS Test Message" | Add time (e.g., 1445) of when the monthly test message was sent. The entire ONS message may be included in the log. Example: *0806 Monthly ONS test message sent* *This is the monthly test of the California ISO Operations Notification System (ONS).* *This is only a test - NO ACTION REQUIRED. Notice issued at: 05/03/2017 08:06.* | No |
| 9 | RUC Energy Net Short Adjustments | The Market Operator creates a log of any RUC Net short and the reason. *Note: The Market Operator creates a log only if there was a RUC Net Short run.* | • Resource Type (leave as "Not Found" <br> • BA ("Not Found") <br> • Resource Name (leave as "Not Found") <br> • Event DTS (Today and current time) <br> • Contact Name (Manager, Real-Time Operations) <br> • Contact DTS (Today and current time) <br> • Under Short Description type the "RUC Net Short for 8/16" | 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, 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.* | Yes |

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| # | Event | Event Description | Utilize Existing Main Fields | Text Field Contents: | IGOR? |
|---|---|---|---|---|---|
| 10 | Bypass Ancillary Services ("AS Block")<br><br>This is a Day-Ahead Log Type | The Market Operator 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.<br><br>**Note:** *For long-term AS blocking events, the MNS notification and SLIC log is performed on a monthly basis.* | • Resource Type (leave as "Not Found"<br>• BA ("Not Found")<br>• Resource Name (leave as "Not Found")<br>• Event DTS (Today and current time)<br>• Contact Name (None)<br>• Contact DTS (None)<br>• Short Description (DA AS Block for "Generator Name")<br><br><u>Example:</u> *"DA AS Block for Bucks Blvd"* | Selected the Congested Area if it exists or Other. Copy and paste the Text and modify it to reflect what is sent via MNS.<br><br>Operating date (tomorrow) and Start and End HE reflect the times of the blocked AS.<br><br><u>Example:</u><br><br>*Based on historic patterns of power flows and transmission and generation availability, the CAISO is forecasting congestion at the Tesla area. As a result, the CAISO will not be awarding Ancillary Services to resources that, if called upon to deliver energy from the Ancillary Services, would increase power flow to the affected area. This restriction will be in effect for Operating date 08/10/2017 from HE1 through HE18 for the DA/RT markets.*<br><br>*Sent by Market Operations. Inquiries please contact the* <mark>Market Operator</mark>. | No |
| 11 | DAM Flow Limit Bias<br><br>This is a Day-Ahead Log Type | 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"<br>• BA ("Not Found")<br>• Resource Name (leave as "Not Found")<br>• Event DTS (Today and current time)<br>• Contact Name (None)<br>• Contact DTS (None) | Enter the Trade Date start and end for tomorrow, the constraint, the name and the percentage.<br><br><u>Example:</u><br><br>*Based upon discussion SM McGowan and crew. This was outage based and conformance was applied to 7785196.* | No |

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| # | Event | Event Description | Utilize Existing Main Fields | Text Field Contents: | IGOR? |
|---|---|---|---|---|---|
| | | | • Short Description ("DAM Conformance for "Flowgate Name") <br><br> Example: *DAM Conformance for 30060_MIDWAY_500_24156_VINCENT_500_BR_2_3* | *Start Trade Date: 02/07/2020, End Trade Date: 03/12/2020* <br> *Constraint Type: Flowgate* <br> *Constraint Name:* <br> *30060_MIDWAY_500_24156_VINCENT_500_BR_2_3* <br> *Percent Bias: 85* | |
| 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" <br> • BA ("Not Found") <br> • Resource Name (leave as "Not Found") <br> • Event DTS (Today and current time) <br> • Contact Name (Manager, Real-Time Operations) <br> • Contact DTS (Today and time) <br> • Short Description of event, Example "DA REG Up/Dn adjustments " | Enter free text of the event <br><br> Example: <br><br> *For trade date 03/01/2020 to 03/01/2020, the following AS requirements were procured in the DA:* <br> *Deviation:* <br> *Regulation Up* <br> *From HE 08 to HE 18* <br> *650 MWs.* | No |
| 13 | DAM Late Closing <br><br> This is a Day-Ahead Log Type | This logs records the event when the DAM is closed after 10:00 <br><br> ***Note:*** *For additional details on Holding the Day-Ahead Market open, refer to Desktop Procedure MO-104.* | • Resource Type (leave as "Not Found" <br> • BA ("Not Found") <br> • Resource Name (leave as "Not Found") <br> • Event DTS (Today and current time) <br> • Contact Name (None) <br> • Contact DTS (None) <br> • Short Description (None) | Enter the Late Reason, Trade Date (tomorrow), the expected close time and the actual close time. <br><br> Example: <br><br> *The following message(s) was (were) sent:* <br><br> *Messages:* <br><br> *DAY-AHEAD DELAYED MESSAGE:* | No |

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| # | Event | Event Description | Utilize Existing Main Fields | Text Field Contents: | IGOR? |
|---|---|---|---|---|---|
| | | | | *Due to CAISO System Issues, the Day-Ahead Market for trade date 03/07/2017 will be delayed. CAISO will notify the market as soon as the Day-Ahead market is closed. The expecting closing time is: 11:15 Inquiries please contact the* <mark>Market Operator</mark>. <br><br> ============================================= <br><br> *DAY-AHEAD CLOSED MESSAGE:* <br> *The Day-Ahead Market for Trade Date 03/07/2017 is now closed. Time market closed: 11:18* | |
| 14 | DAM Final Results Expected Publishing <br><br> 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" <br> • BA ("Not Found") <br> • Resource Name (leave as "Not Found") <br> • Event DTS (Today and current time) <br> • Contact Name (None) <br> • Contact DTS (None) <br> • Short Description Example "DA late Publish for 7/6/2019" | Enter the Trade Date (tomorrow), and Expected Publish Time. <br><br> <u>Example:</u> <br><br> *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.* <br><br> *The Final Day-Ahead Results for trade date 07/16/2019 are expected to be published by 13:30 for 07/16/2019.* <br><br> *CAISO estimates that this variation in the publishing time to apply only to the results for the 07/16/2019 trade date.* | No |

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| # | Event | Event Description | Utilize Existing Main Fields | Text Field Contents: | IGOR? |
|---|---|---|---|---|---|
| | | | | *Delay Reasons:* <br><br> *The reason for the delay is: Data Processing Problems* <br> *Sent by Market Operations. Inquiries please contact the* <mark>Market Operator</mark>. | |
| 15 | DAM Final Results Actual Publishing <br><br> This is a Day-Ahead Log Type | This logs records the event when the DAM was Published and the MNS sent | • Resource Type (leave as "Not Found" <br> • BA ("Not Found") <br> • Resource Name (leave as "Not Found") <br> • Event DTS (Today and current time) <br> • Contact Name (None) <br> • Contact DTS (None) <br> • Short Description Example "Final DA Published" | Enter the Trade Date (tomorrow), and Actual Publish Time. <br><br> Example: <br><br> *The Final Day-Ahead Results were published at 13:06 for 06/25/2017.* <br><br> *Note that Final Day-Ahead Results for 06/25/2017 are expected to be publish by 13:00 as outlined in the CAISO Tariff.* <br><br> *Sent by Market Operations. Inquiries please contact the* <mark>Market Operator</mark>. | No |
| 16 | Extra Long Start Commitment (ELC) <br><br> This is a Day-Ahead Log Type | 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" <br> • BA ("Not Found") <br> • Resource Name (leave as "Not Found") <br> • Event DTS (Today and current time) <br> • Contact Name (Manager, Real-Time Operations) <br> • Contact DTS (Today and time) <br> • Short Description of event | Enter the details of the ELC. Refer to Desktop Procedure <u>RTM-004 Extremely Long Start Commitment (ELC) and Day-Ahead ED Guide and Logging Instructions</u> <br><br> Example: <br><br> *Operating Date: 09/12/2019, the CAISO sent an Exceptional Dispatch as follows:* <br><br> *EDE Instruction:* <br><br> *Resource: ALAMITOS GEN STA. UNIT 6* | No |

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| California ISO | Operating Procedure | Procedure No. | 5210E |
|---|---|---|---|
| | | Version No. | 2.4 |
| | | Effective Date | 11/01/23 |

| Market Operator Logging | Distribution Restriction: None |
|---|---|

| # | Event | Event Description | Utilize Existing Main Fields | Text Field Contents: | IGOR? |
|---|---|---|---|---|---|
| | | | Example: "ELC for High Dessert " | *Instruction type: OTHER, Reason: N/A, _____* <br> *GOTO MWs: 70* <br> *Verbal Dispatch? Yes* <br> *Start Verbal Dispatch: _____, End Verbal Dispatch: _____* <br> *Constraint Type: Start Up - Minimum* <br> *EDE Market Type: DA* <br> *HE: 02* | |
| 17 | DAM Other Market Info <br><br> This is a Day-Ahead Log Type | 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") <br> • BA ("Not Found") <br> • Resource Name (leave as "Not Found") <br> • Event DTS (Today and current time) <br> • Contact Name (Manager, Real-Time Operations) <br> • Contact DTS (Today and time) <br> • Short Description of event, Example "Day-Ahead Nodal Constraint Change" | Enter free text of the event <br><br> Example: <br><br> *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) <br><br> This is a rare event | • Resource Type (leave as "Not Found") <br> • BA ("Not Found") <br> • Resource Name (leave as "Not Found") <br> • Event DTS (Today and current time) <br> • Contact Name (Manager, Real-Time Operations) | Enter Trade data and Market Module that did not finish (e.g., RUC) <br><br> Example: <br><br> *RUC could not complete.  MES published RUC awards from payload.* | Yes |

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| # | Event | Event Description | Utilize Existing Main Fields | Text Field Contents: | IGOR? |
|---|---|---|---|---|---|
| | | | • Contact DTS (Today and time)<br>• Short Description of event<br><br>Example: "Day-Ahead Market Disruption" | | |

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# 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:

| CAISO Tariff | |
|---|---|
| CAISO Operating Procedure | |
| NERC Requirements | |
| WECC Criterion | |
| Other References | |

**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**

| Version | Change | Date |
|---|---|---|
| 1.2 | Updated to remove any and all related references of procedures being retired – 5210, 5210D, and 5220. | 8/24/17 |
| 2.0 | 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. | 5/07/20 |

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| Version | Change | Date |
|---|---|---|
| 2.1 | Section 1.3, Item #5: Removed reference to procedure 5230 from the "IGOR?" column, since the procedure was retired and no longer applicable. | 10/20/22 |
| 2.2 | 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. | 2/16/23 |
| 2.3 | Replaced Shift Manager with Manager, Real-Time Operations or Manager of Real-Time Operations, and replaced RTMO with Market Operator. Removed logging requirements for commitment overrides for log types and log detail. Minor formatting and grammar edits. | 9/11/23 |
| 2.4 | Updated Procedure title to Market Operator Logging. Section 1.2: Updated section title to Market Operator Logging Types. Replaced Real-Time Market Desk with Market Operator. Replaced DA Market Desk and Day-Ahead Market Desk with Market Operator. Replaced Alert, Warning & Emergency (AWE) Notification System and "AWE" with Operations Notification System and "ONS". | 11/01/23 |

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