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		Version No.	3.0
		Effective Date	7/10/26
Market Operator Logging		Distribution Restriction: None	

1. Purpose

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

Most logs will be in the nature of the notes, and in general will reflect actions taken (manual) in the **Real-Time and Day-Ahead Energy** Markets by the Market Operator.

2. Market Operator Logging Types

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


2.1 Real-Time Market

1. RT Market Notes->Isolation/Disruption/Separation/Suspension
2. RT Market Notes->**System** Maintenance (DB Promotion, **Application Patch**, Fall **Forward/Back**)
3. RT Market Notes->BA Contingency (includes CAISO RTCD/**RTDD**)
4. RT Market Notes->RT **Other** Market Info
5. RT Market Notes->Use Advisory / Previous Solution
6. RT Market Notes->Threshold Exceedance (ETSR/Gen/Intertie)

2.2 EIM Day-Ahead Market

1. Day-Ahead Desk->RUC Energy Net Short Adjustments
2. Day-Ahead Desk->Bypass Ancillary Services
3. Day-Ahead Desk->DAM Flow Limit Bias
4. Day-Ahead Desk->DAM AS Procurement Deviation
5. Day-Ahead Desk->DAM Late Closing
6. Day-Ahead Desk->DAM Final Results Expected Publishing
7. Day-Ahead Desk->DAM Final Results Actual Publishing
8. Day-Ahead Desk->Extra Long Start Commitments (ELC)
9. Day-Ahead Desk->DAM Other Market Info
10. Day-Ahead Desk->DAM Disruption


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2.3 Shift Turnover

1. RT Market Notes-> MO Shift Change

Event	Event Description	Utilize Existing Main Fields	Text Field Contents:	IGOR?
RTMO Shift Coverage for the Day	RTMO Desk assignments for the day, including role and location	Turnover Template 1. RTMO - Name 2. RTMO - Role 3. RTMO - Location	N/A	No

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2.4 Log Entry Detail

#	Event	Event Description	Utilize Existing Main Fields	Text Field Contents:	IGOR?
Real-Time Market					
1	Isolation/ Disruption/ Separation/ Suspension Utilize RT Market-> RT Market Notes Log Type	WEIM participants request the appropriate market disruption type (Isolation/Separation) from the Market Operator. The WEIM BAA may take actions as needed to limit WEIM transfers, including limiting ITCs and/or locking ETSRs.	<ul style="list-style-type: none"> 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 (Market Operator) Contact DTS (and time) Under Short Description type "(Event Type XXXXX)" including WEIM Entity 	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). Example: 1612: NEVP/John reports a disruption to their BA and is limiting their Net ITC to 0 MW import/export until further notice.	Yes
2	System Maintenance (DB Promotion, Application Patch, Fall Forward/Back) Utilize RT Market-> RT Market Notes Log Type	The Market Operator places the market in Manual in coordination with MES and returns the market back to Automatic after the installation is completed.	<ul style="list-style-type: none"> 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 (Market Operator) Contact DTS (and time) Under Short Description type "Event Type XXXXX" including application) 	Add time (e.g., 1423), The detail of when each market module is placed in Manual, and back in Automatic. Add time (e.g., 1445), also add RTPD/RTD intervals missed and narrative of any installation issues. Example: 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	Yes


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Market Operator Logging


Distribution Restriction: None

#	Event	Event Description	Utilize Existing Main Fields	Text Field Contents:	IGOR?
				STUC @ 14:32 RTBS @ 14:32 Missed Runs RTPD 5 and RTD IE 14:35, 14:40	
3	WEIM BA Contingency, Or CAISO BA RTCD/RTDD 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 CAISO, an RTCD/RTDD event is run, and contingency resources are dispatched through the market. WEIM Entities are sent Advisory dispatches when CAISO has flagged into contingency.	<ul style="list-style-type: none"> Resource Type (leave as "Not Found") BA ("Not Found") Resource Name (if due to a particular resource, add or otherwise leave as "Not Found") Event DTS (and time) Contact Name (Market Operator) Contact DTS (and time) Under Short Description type "Contingency - XXXX" For example: "Contingency - PACE"	Add time (e.g., 1445) of when the contingency was initiated. Note: If the Market Operator can determine the root cause of the Contingency, add it to the log. <u>Example:</u> 1243: PACE activated contingency. 1315: PACE no longer in contingency. PACE: Jim Bridger Tripped	Yes
4	"Any Real-Time System Trouble" reported by CAISO IT or a WEIM Entity Utilize RT Market-> RT Market Notes Log Type	In the event of a computer system issue at the CAISO, the Market Operator is on point to keep all WEIM Participants apprised of the progress and timely resolution. In the event of a computer system issue at the CAISO reported by a WEIM Entity, the Market Operator is on point to report the issue to CAISO IT. If a WEIM participant reports their own computer system issue,	<ul style="list-style-type: none"> Resource Type (leave as "Not Found") BA ("Not Found") Resource Name (leave as "Not Found") Event DTS (and time) Contact Name (Market Operator) 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	Add approximate time (e.g., 1445) of when the system issue occurred, add all the detailed reason narrative (including bridge timings, any Sev actions taken). 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. <u>Example:</u> 2148: RTPD Advisory Run (HASP) fails in N/A run. Market Operator called the Service Desk requesting MES on-call support.	Yes


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#	Event	Event Description	Utilize Existing Main Fields	Text Field Contents:	IGOR?
		the Market Operator confirms the issue and subsequent fix is on their side, assists as requested, and logs as required.	<i>Advisory Run</i> ” or “Market Used Previous Solution,” “Market Disruption,” “ALFS Issue,” etc. WEIM Participant Reported examples “SIBR/BSAP Submission Issues,” SIBR/BSAP UI Issues “VER Forecast Submission Issues,” “WEIM Portal is Down,” etc. <i>WEIM Participant examples:</i> “NVE Phone Issues” or “PSE Telemetry issues”	2200: MES/Xiaochen found: Bound infeasibility column 'PENE_0772_000'. ELSEGN_2_UN1011_D1 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. 2259: HASP run successful without error.	
5	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 Market Operator confirms the issue and escalates if necessary.	<ul style="list-style-type: none"> Resource Type (leave as “Not Found”) BA (“Not Found”) Resource Name (leave as “Not Found”) Event DTS (and time) Contact Name (Market Operator) Contact DTS (and time) Under Short Description type either RTD or RTPD and either Previous or Advisory Run. <u>Example:</u> “Advisory Run - RTD”	Add approximate time (e.g., 1345) 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. <u>Example:</u> RTD IE 1345 advisory run due to LCKHT1_2_LH1BT1 at TI: 6. 1332 RTMO/XXXX made resource non-participating in RTD. 1334 RTMO contacted CAISO Gen/XXXX to notify the resource was made non-participating in RTD. RTD IE 1350 interval ran without error. 1402 RTMO/XXXX made participating in RTD.	Yes

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#	Event	Event Description	Utilize Existing Main Fields	Text Field Contents:	IGOR?
				1402 RTMO contacted CAISO Gen/XXXX to notify the resource was made participating in RTD. RTD IE 1415 interval ran without error.	
6	Threshold Exceedance (ETSR/Gen/Intertie) 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.	<ul style="list-style-type: none"> Resource Type (leave as "Not Found") BA ("Not Found") Resource Name (leave as "Not Found") Event DTS (and time) Contact Name (Market Operator) Contact DTS (and time) Under Short Description type WEIM entity and market threshold exceeded. Example: "Threshold - AZPS"	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: RTD IE 0805 AZPS Exceeded their Net ETSR INC by 31 MW, for a Total Delta Sum of 12 MW. AZPS/Wayne was ok with the results and the dispatch was broadcast successfully.	Yes
Day-Ahead Market					
1	RUC Energy Net Short Adjustments	The Market Operator creates a log of any manual RUC Net short adder requested by an EDAM BAA and the reason (if available). Note: The Market Operator does not create a log for RUC Net Short requirements based on daily uncertainty.	<ul style="list-style-type: none"> Resource Type (leave as "Not Found") BA ("Not Found") Resource Name (leave as "Not Found") Event DTS (Today and current time) Contact Name (Manager, BA Operations) Contact DTS (Today and current time) 	Add Trade Date (tomorrow) in Attributes, the HE the manual adjustment starts, the HE the adjustment end, the adjustment reason from the drop-down list, under "Other Reason" put the zone (EDAM BAA, or zone: SCE, PGE, SDGE), the Adjustment Value (MW) and the adjustment value type (leave set as MW). Example: For 08/16/2017 from HE 8 to 22. Energy Net Short was adjusted to 500 MW for Load Forecast Error / System.	Yes


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#	Event	Event Description	Utilize Existing Main Fields	Text Field Contents:	IGOR?
2	Bypass Ancillary Services ("AS Block") 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 BA's request). 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 monthly.	<ul style="list-style-type: none"> Under Short Description type the "RUC Net Short for 8/16" 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 (DA AS Block for "Generator Name") <p><u>Example:</u> "DA AS Block for Bucks Blvd"</p>	Selected the Congested Area if it exists or Other. Copy and paste the Text and modify it to reflect what is sent via MNS. Operating date (tomorrow) and Start and End HE reflect the times of the blocked AS. <u>Example:</u> <i>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.</i> Sent by Market Operations. Inquiries, please contact the Market Operator.	No
3	DAM Flow Limit Bias This is a Day-Ahead Log Type	This log 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.	<ul style="list-style-type: none"> Resource Type (leave as "Not Found") BA ("Not Found") Resource Name (leave as "Not Found") Event DTS (Today and current time) Contact Name (None) 	Enter the Trade Date start and end for tomorrow, the constraint, the name, and the percentage. <u>Example:</u> <i>Based upon discussion SM McGowan and crew. This was outage based and conformance was applied to 7785196.</i>	No

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#	Event	Event Description	Utilize Existing Main Fields	Text Field Contents:	IGOR?
			<ul style="list-style-type: none"> Contact DTS (None) Short Description (“DAM Conformance for “Flowgate Name”) <p><u>Example:</u> DAM Conformance for 30060_MIDWAY_500_24156_VINCEN T_500_BR_2_3</p>	<i>Start Trade Date: 02/07/2020, End Trade Date: 03/12/2020</i> <i>Constraint Type: Flowgate</i> <i>Constraint Name: 30060_MIDWAY_500_24156_VINCENT_500_BR_2_3</i> <i>Percent Bias: 85</i>	
4	DAM AS Procurement Deviation	This log records requested changes to the CAISO BA AS requirements including regulation up and down minimums, region percentage changes, custom MSSC changes or load forecast percentage changes, for example.	<ul style="list-style-type: none"> Resource Type (leave as “Not Found”) BA (“Not Found”) Resource Name (leave as “Not Found”) Event DTS (Today and current time) Contact Name (Manager, BA Operations) Contact DTS (Today and time) Short Description of event, Example “DA REG Up/Dn adjustments ” 	Enter free text of the event <u>Example:</u> <i>For trade date 03/01/2020 to 03/01/2020, the following AS requirements were procured in the DA:</i> <i>Deviation:</i> <i>Regulation Up</i> <i>From HE 08 to HE 18</i> <i>650 MW.</i>	No
5	DAM Late Closing This is a Day-Ahead Log Type	This log records the event when the DAM is closed after 10:00 Note: For additional details on Holding the Day-Ahead Market open, refer to Desktop Procedure MO-104.	<ul style="list-style-type: none"> 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 Late Reason, Trade Date (tomorrow), the expected close time, and the actual close time. <u>Example:</u> <i>The following message(s) was (were) sent:</i> <i>Messages:</i> <i>DAY-AHEAD DELAYED MESSAGE:</i>	No


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#	Event	Event Description	Utilize Existing Main Fields	Text Field Contents:	IGOR?
			<ul style="list-style-type: none"> Short Description (None) 	<p><i>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 Market Operator.</i></p> <p>=====</p> <p>=====</p> <p><i>DAY-AHEAD CLOSED MESSAGE: The Day-Ahead Market for Trade Date 03/07/2017 is now closed. Time market closed: 11:18</i></p>	
6	DAM Final Results Expected Publishing This is a Day-Ahead Log Type	This log records the event when the DAM was expected to be Published and the MNS sent	<ul style="list-style-type: none"> 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 "DA late Publish for 7/6/2019" 	Enter the Trade Date (tomorrow) and Expected Publish Time. <u>Example:</u> <i>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.</i> <i>The Final Day-Ahead Results for trade date 07/16/2019 are expected to be published by 13:30 for 07/16/2019.</i> <i>CAISO estimates that this variation in the publishing time to apply only to the results for the 07/16/2019 trade date.</i>	No

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#	Event	Event Description	Utilize Existing Main Fields	Text Field Contents:	IGOR?
				<i>Delay Reasons:</i> <i>The reason for the delay is: Data Processing Problems</i> <i>Sent by Market Operations. Inquiries, please contact the Market Operator.</i>	
7	DAM Final Results Actual Publishing This is a Day-Ahead Log Type	This log records the event when the DAM was Published and the MNS sent	<ul style="list-style-type: none"> 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. <i>Example:</i> <i>The Final Day-Ahead Results were published at 13:06 for 06/25/2017.</i> <i>Note that Final Day-Ahead Results for 06/25/2017 are expected to be published by 13:00 as outlined in the CAISO Tariff.</i> <i>Sent by Market Operations. Inquiries, please contact the Market Operator.</i>	No
8	Extra Long Start Commitment (ELC) This is a Day-Ahead Log Type	This log records when CAISO BA requests a manual ELC or Day-Ahead ED (created by use of a single-resource MOC).	<ul style="list-style-type: none"> Resource Type (leave as "Not Found") BA ("Not Found") Resource Name (leave as "Not Found") Event DTS (Today and current time) Contact Name (Manager, BA Operations) Contact DTS (Today and time) Short Description of event <i>Example: "ELC for High Dessert"</i>	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> <i>Example:</i> <i>Operating Date: 09/12/2019, the CAISO sent an Exceptional Dispatch as follows:</i> <i>EDE Instruction:</i> <i>Resource: ALAMITOS GEN STA. UNIT 6</i> <i>Instruction type: OTHER, Reason: N/A, _____</i>	No


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#	Event	Event Description	Utilize Existing Main Fields	Text Field Contents:	IGOR?
				<i>GOTO MW: 70 Verbal Dispatch? Yes Start Verbal Dispatch: _____, End Verbal Dispatch: _____ Constraint Type: Start Up - Minimum EDE Market Type: DA HE: 02</i>	
9	DAM Other Market Info This is a Day-Ahead Log Type	This log records unique DAM events such as DAM System issues, ELC blocking, infeasible Day-Ahead results, or Gas Curtailment messaging.	<ul style="list-style-type: none"> Resource Type (leave as "Not Found") BA ("Not Found") Resource Name (leave as "Not Found") Event DTS (Today and current time) Contact Name (Manager, BA Operations) Contact DTS (Today and time) Short Description of event, Example "Day-Ahead Nodal Constraint Change" 	Enter free text of the event <u>Example:</u> <i>Adjusted a nodal constraint on Helms for Trade date.</i>	Use judgement to identify log entries to be flagged for inclusion in the IGOR.
10	DAM Disruption	This log records if the DAM is disrupted (unable to complete or other severe issues), This is a rare event.	<ul style="list-style-type: none"> Resource Type (leave as "Not Found") BA ("Not Found") Resource Name (leave as "Not Found") Event DTS (Today and current time) Contact Name (Manager, BA Operations) Contact DTS (Today and time) 	Enter Trade data and Market Module that did not finish (e.g., RUC) <u>Example:</u> <i>RUC could not complete. MES published RUC awards from payload.</i>	Yes

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			<ul style="list-style-type: none"> Short Description of event Example: "Day-Ahead Market Disruption"		
Shift Turnover					
	Shift Turnover Compliance Documentation Utilize RT Market-> RT Market Notes Log Type	This log records the location and role of each Market Operator performing either Real-Time Market Operator or Day-Ahead Market Operator roles for Day Shift and Night shift for that day.	<ul style="list-style-type: none"> Resource Type (leave as "Not Found") BA ("Not Found") Resource Name (leave as "Not Found") Event DTS (Today and 06:00) Contact Name (Manager, BA Operations) Contact DTS (Today and time) Short Description of event, Example "RTMO Shift Change"	As of XX/XX/XXXX 06:00, the following functions are being performed at the corresponding locations: RTMO / (control room Folsom/Lincoln)/Last Name DAMO / (control room Folsom/Lincoln)/Last Name At 18:00 the following function is being performed at the corresponding location: RTMO / (control room Folsom/Lincoln)/Last Name	Yes

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3. Supporting Information

Operationally Affected Parties

Shared with the Public.

References

Resources studied in the development of this procedure and that may influence 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
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
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

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Version	Change	Date
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
3.0	Periodic Review: Converted to Market Operator Procedure MO5210E and updated to reflect the latest version of 2720 and bring up to speed with current Real-Time Market Operations logging requirements. Added the new to RTMO Shift Turnover Log. Replaced Manager, Real-Time Operations with Manager, BA Operations. Minor formatting and grammar edits and removed history prior to five years.	7/10/26