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		Version No. 20.0
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Day-Ahead Market		Distribution Restriction: None

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Responsibilities

CAISO Generation Dispatcher

CAISO Transmission Dispatcher

CAISO Manager, Balancing Authority (BA) Operations

CAISO Director, BA Operations

Market Operator

CAISO Operations Planning


CAISO Operations Planning Engineer

CAISO Day-Ahead Operations Engineer

CAISO Power Systems Technology Operations (PSTO)

CAISO Critical Systems Support (CSS)

Scheduling Coordinator (SC)

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A.1 Purpose

This procedure provides guidelines for and describes CAISO BA functions related to:

- Preparing for Day-Ahead Market (DAM) activities.
- Manual Commitment of units to meet reliability needs, manage Congestion on competitive paths, provide Ancillary Services (AS), and provide Voltage Support, if necessary
- Procurement and availability of Ancillary Services.
- Day-Ahead Resource Sufficiency Evaluation Activities
- Declare a Market Isolation for the CAISO BA
- Review Day-Ahead Market Results
- Post Day-Ahead capacity review, Issuing Exceptional Dispatches (ED), making notifications and logging of ED in the Post-Day-Ahead period (prior to Real-Time)
- Actions to take in case of a Day-Ahead Market Disruption

A.2 Scope/Applicability

A.2.1. Background


The policy for the Day-Ahead Market can be found in the Business Practice Manual for Market Operations as well as the Extended Day-Ahead Market Business Practice Manual. The CAISO procures Regulation, Spinning Reserve, and Non-Spinning Reserve in the DAM and Real-Time Market (RTM), so that the total procurement meets or exceeds the WECC Operating Reserve Requirements and NERC Control Performance Standards. Ancillary Services are procured at the lowest overall cost, while maintaining the competitiveness of the markets.

RMR Units may be manually committed and dispatched by the CAISO to meet certain local area operating constraints, address local reliability issues, mitigate Congestion on non-competitive paths, meet shortfalls in the AS market, provide Voltage Support, or Supply needs that cannot be met solely by the available market resources.

The CAISO will make every effort to use ED only as necessary for conditions described in [Section C.3.1.2 Day-Ahead Exceptional Dispatch](#). During emergency operations, or when the CAISO is unable to maintain System Reliability by using resources available to the CAISO market, the CAISO is authorized by the CAISO Tariff to arrange ED for Energy transactions with Scheduling Coordinators and Non-Scheduling Coordinators. This may include, but is not limited to, forced shut-downs, or forced start-ups of Generation, Dynamic System Resources, and Participating Load. The CAISO may also enter agreed-upon transactions with Interchange Resources (Imports and Exports).

Note: A Day-Ahead RMR dispatch is not considered an Exceptional Dispatch; however, the ED tool is utilized. See [Section B.3 Day-Ahead Reliability Must Run Unit Commitment and Dispatch](#) for more details.

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The CAISO may declare a Market Isolation if there has been a total or major collapse of all or part of the CAISO Controlled Grid.

Through a progressive process over a rolling three-day period the Validation and Review Team attempts to validate the quality of market solutions for each day, as necessary.

A.2.2. Scope/ Applicability

This procedure is applicable to

- The Day-Ahead Market activities,
- The commitment and Dispatch of RMR units in both the Day-Ahead and Real-Time,
- Cases where an Exceptional Dispatch is necessary prior to running the Day-Ahead Market,
- Procurement and availability of Ancillary Services,
- Declaring a CAISO BA Market Isolation, and
- Validation of the quality of market solutions for each day.

A.3 Day-Ahead Market Procedure Detail


A.3.1. Prior to DAM Close

A.3.1.1. Four (4) Days Out Results Review

Take the following actions to review the results of the four (4) days out power flow that was run the night before:

CAISO Generation Dispatcher / CAISO Day-Ahead Operations Engineer
Between 1800 Four (4) Days Prior to the Operating Day & 0830 PPT One (1) Day Prior to the Operating Day
<ol style="list-style-type: none"> 1. Review the results of yesterday's D+4, D+2, and Day-Ahead (DA) for binding constraints that require resolution. 2. If any extremely Long-Start Commitment (ELC) is required, confirm that Bids are available: <ul style="list-style-type: none"> • If Bids are necessary, notify the SC to submit appropriate Bids. 3. Review grid events that have taken place overnight that may require re-runs of power flows. 4. If necessary, request a D2 Rerun from the Market Operator by 0730 PPT with the associated details in the DA Setup Template. Refer to Market Operator procedure MO1210 Day-Ahead Market for details.


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A.3.1.2. MOC Constraint

The following describes the Minimum On-line Commitment (MOC) constraint set-up process:

CAISO Generation Dispatcher / CAISO Manager, BA Operations
<p>1. Determine if any MOC constraints need to be enforced for the current DAM (D+1), Prior to 08:30 PPT:</p> <ul style="list-style-type: none"> • If there are at least two (2) market resources defined in the MOC constraint, and there is enough RA, SR, RMR or previous CPM capacity to meet the MOC requirement, the MOC constraint may be created and utilized. • If there are less than two (2) market resources defined in the MOC constraint, the MOC constraint may not be created and utilized. • If there is not enough RA, SR, RMR, or previous CPM capacity to meet the MOC requirement, the MOC constraint may not be created and utilized unless additional capacity is made available through a change in unit status or an Exceptional Dispatch CPM is made for adequate capacity. <p><i>Note: RA substitutions must meet 06:00 DAM substitution requirements to count towards MOC capacity requirements.</i></p> <p>2. If there are MOC requirements that need to be enforced,</p> <ul style="list-style-type: none"> • Use the applicable procedure to determine the requirement(s). • Enter requirements into the applicable outage card and DA Setup Template by 08:30 PPT. • Notify the Market Operator of any changes to the requested activation.

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A.3.1.3. Manual ELC Process

The following describes the Extremely Long Start Commitment (ELC) determination process. This is a backstop manual process to the automated D+2 RUC commitment process:


CAISO Generation Dispatcher / Market Operator
<p><u>Two (2) days prior to the Operating Day</u></p> <ol style="list-style-type: none"> After the power flow study run: <ul style="list-style-type: none"> If an ELC unit is needed and the identified unit was offline: <ul style="list-style-type: none"> Place a phone call to the SC <u>and</u> Inform the SC that the unit needs to be started and available at its minimum Load for the indicated period. If an ELC unit is needed and the identified unit is online or offline: <ul style="list-style-type: none"> Inform the SC to place a Bid in SIBR for the indicated amount to at least cover the minimum up time. <p><u>Prior to 0900 PPT One (1) day prior to the Operating Day</u></p> <ol style="list-style-type: none"> Verify the following for the ELC units that were required to Start-Up yesterday for tomorrow: <ul style="list-style-type: none"> They have Bids submitted in the DAM for the next day. The unit has been manually placed in the ELC determination section of IFM for the indicated date/time and minimum Load MW. <p>See Section C.3 Day-Ahead Exceptional Dispatch for detail.</p>

A.3.1.4. Ancillary Services Determination

Take the following actions to determine the DAM Ancillary Services (AS) requirements and limitations:

CAISO Generation Dispatcher / CAISO Manager, BA Operations
<ol style="list-style-type: none"> Determine the Regulation Up and Regulation Down requirement <u>and update</u> the DA Setup Template <u>by 0830 PPT.</u> Identify any possible outage or transmission based MSSC scenarios <u>and update</u> the DA Setup Template accordingly. If there is a change to the default single largest resource MSSC for the D+1 timeframe, notify the Market Operator directly to ensure setting adjustment. Check for forecasted internal path transmission constraints, transmission Outages, or Generation limitations that render the AS undeliverable.

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CAISO Generation Dispatcher / CAISO Manager, BA Operations
<p>5. Determine if transmission constraints or Generation limitations exist:</p> <ul style="list-style-type: none"> • Identify the applicable Unit(s) associated with the constraint. • Determine the limit for each applicable Unit(s) AS product availability. • Log the event in SLIC. • Notify the Market Operator and update the DA Setup Template by 08:30 PPT. • If there is a Generation limitation (that is not due to congestion), including air emissions, or Start-Up limitations: <ul style="list-style-type: none"> ○ If the limitation is provided by the Scheduling Coordinator, verify if an approved outage card is on file: <ul style="list-style-type: none"> ▪ If not, refer the SC to create an Outage for proper recordation of the limitation. ○ If the limitation is brought by CAISO Operations Engineering Services, verify if an approved outage card is on file: <ul style="list-style-type: none"> ▪ If not, refer to CAISO Operations Engineering Services to create an Outage for proper recordation of the limitation. ○ If the limitation is brought by the CAISO Manager of BA Operations, from the CAISO Generation Dispatcher, verify if the approved outage card was provided by the CAISO Generation Dispatcher: <ul style="list-style-type: none"> ▪ If not, ensure the CAISO System Operator/CAISO Manager of BA Operations obtains, and approves, a valid outage card. ○ The Market Operator will not incorporate a generation limitation into a Day-Ahead run unless the limitation has been accurately reflected in an approved outage card. <ul style="list-style-type: none"> ▪ Outage card approval serves as notification to the Scheduling Coordinator of their unit's limitation. <p>See Section D.3 Ancillary Service Procurement and Availability Validation for details.</p>

A.3.1.5. Constraint Enforcement

The following describes the steps to determine if constraint enforcement is necessary:


CAISO BA OE
<ol style="list-style-type: none"> 1. Determine if any constraint enforcement is necessary, based on D+2 or D+4 studies. 2. Verify enforced contingency, flowgate and nomogram constraints in the market software. <p>See Section E.3 Pre-Market Validation for details.</p>

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A.3.1.5.1. Return of Transmission prior to DAM Run

The following process describes the event where a transmission outage returns early to service prior to the DAM Run and after the D+2 power flow study:

CAISO Transmission Dispatcher
<p>1. If a transmission outage returns to service earlier than the scheduled outage end date, <u>and</u> there is <u>sufficient</u> time to make any necessary ETC updates and notifications per CAISO Operating Procedure 3640 Existing Transmission Contract Calculator Update, Section 2.2 Scope/Applicability:</p> <ul style="list-style-type: none"> • Update the activation status of any associated Market elements (i.e., Nomogram, MOC, Contingency, Flowgate, Conformances) via OMS. • Update the ETC limits. <p style="margin-left: 40px;"><i>Note: This is performed automatically via the ETC Calculator.</i></p> <ul style="list-style-type: none"> • Send out an MNS message (CAISO Transmission Dispatcher). <p>2. If a transmission outage returns to service earlier than the scheduled outage end date, <u>and</u> there is <u>insufficient</u> time to make any necessary ETC updates and notifications, per CAISO Operating Procedure 3640 Existing Transmission Contract Calculator Update, Section 2.2 Scope/Applicability:</p> <ul style="list-style-type: none"> • Update the activation status of any associated Market elements (i.e., Nomogram, MOC, Contingency, Flowgate, Conformances) via OMS. <p style="margin-left: 40px;"><i>Note: The ETC Limits that will be utilized for the next Day-Ahead trade date are available in the OASIS Current Transmission Usage Report at 09:00. Note that any Real-Time changes to ETC limits to this report between the timeframe of 09:00 and Day-Ahead Market close (10:00) will not be utilized in Day-Ahead, per Operating Procedure 3640 Existing Transmission Contract Calculator Update. After the Day-Ahead is published, the ETC limits used in Day-Ahead will be available in the OASIS Transmission Usage Interface report.</i></p> <ul style="list-style-type: none"> • Send out an MNS message (CAISO Transmission Dispatcher). <p style="margin-left: 40px;"><i>Note: While an ETC Limit may be changed between 09:00 and 10:00, it will not be included in the Day-Ahead market.</i></p> <ul style="list-style-type: none"> • Execute the D1 run as normal.

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A.3.1.6. Suspending Convergence Bidding prior to closing the DAM

The CAISO has the authority to suspend Convergence Bidding when necessary, per Tariff Section 7.9.3. This can be performed to bids already submitted or to bids that will be submitted in the future either at the PNode, Aggregated PNode, or all PNodes level(s).

Suspending Convergence Bidding is considered a rare, last-resort action, only performed where the inclusion of such Convergence Bidding risks:


- Sufficient Energy or Ancillary Service bids
- Process failure of bids
- Achieving alternating current (AC) solutions over an extended period
- Enforcement of natural gas constraint(s)
- Where not taking such action may affect System Reliability or grid operations

CAISO Director of BA Operations, CAISO Manager of BA Operations
<ol style="list-style-type: none"> 1. Confirm decision to limit or suspend Convergence Bidding by PNode, Aggregate PNode, or all PNode levels. 2. Request that the Market Operator suspend Convergence Bidding for the CAISO BA and send appropriate MNS notification. <p><i>Note: Per Tariff requirements, within two (2) business days, the CAISO will provide information justifying the decision to suspend or limit Convergence Bidding.</i></p>

A.3.1.7. DA RSE Advisory Run

The DA RSE is a feature of the EDAM to verify that EDAM BAAs have sufficient supply and reserves to meet forecasted demand, ancillary services, and uncertainty that may materialize between day-ahead and real-time horizons. The Advisory DA RSE runs are completed every 30 minutes from 0600 to 0930 to allow the EDAM BAA to assess if their bid and scheduled resources are adequate to pass the binding RSE run at 1000.

CAISO Generation Dispatcher / CAISO Manager, BA Operations
<ol style="list-style-type: none"> 1. Review the advisory RSE results available on CMRI as well as the Stressed Hour Report. 2. Consider options to address any RSE failures by increasing the resources available to the EDAM for the required commodity. This may include considering utilizing RDRR resources in the DA timeframe, manual dispatches, and requesting additional bids from participating Scheduling Coordinators. 3. Determine if there is a need to utilize RDRR in the Day-Ahead Market. 4. Notify the Market Operator <u>and submit</u> requested RDRR deployment <u>prior to 0930</u>.

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CAISO Generation Dispatcher / CAISO Manager, BA Operations
5. Determine if more bids are needed from participating Scheduling Coordinators. If necessary, request the Market Operator to send an MNS notification requesting additional bids.


A.3.1.8. Reliability Margin Determination

The Net Export Transfer Constraint is used to limit the amount of capacity that can be optimized in support of transfers from one EDAM Balancing Authority Area to another EDAM Balancing Authority. The Reliability Margin is a configurable parameter submitted by each EDAM BAA to establish an additional limit on the amount of capacity held within the balancing area.

The CAISO will determine Reliability Margin based upon the following criterion:

- For summer months: net-load peak hours; defined as hour-ending 17 through hour-ending 21 (i.e., 4pm-9pm)
- Operational RA capacity + RA credits < demand forecast + contingency reserve requirement + regulation reserve + imbalance reserve upward requirement.
- Operational net RA capacity + RA credits < net demand forecast + contingency reserve requirement + regulation reserve + imbalance reserve upward requirement.
- Advisory RSE upward failure quantity – expected day-ahead offers not yet submitted by available RA resources with day-ahead must offer obligations > 0
- Restricted Maintenance Operations
- Wide-area Transmission Emergency
- D+2 RUC infeasibility
- EEA Watch, if called before the day-ahead market closes at 10am
- Flex Alert, if called before the day-ahead market closes at 10am

During periods of supply insufficiency, EDAM transfers are afforded a priority equal to CAISO BAA load, as compared to LPT exports that are curtailed prior to CAISO load. The equal priority of EDAM transfers that may have been awarded due to economic import offers exposes the CAISO BAA demand to increased reliability risk during occurrences of non-delivery.

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Stressed hours: hourly default values calculated by taking, at a minimum, the max of:

1. Replacement reserves based on forecasted most severe single contingency: the day-ahead market does not have an explicit product to reserve unloaded flexible capacity to ensure the ISO BAA is able to replace its contingency reserves within NERC required timelines.
2. Protection for a non-credible contingency: : Intraday conditions may change, rendering nominally non-credible contingencies as credible. Reservation of RA capacity allows for activation of the non-credible contingency within the real-time market's security constrained dispatch, ensuring the real-time market dispatch is security constrained.

The CAISO BAA will utilize a Confidence Factor of 0% during all system conditions to address this concern. This will ensure that the CAISO BAA is not assuming any incremental risk associated with the non-delivery of economy energy intertie supply.

CAISO BA Implementation Summary:


From the first day of EDAM implementation and until further Policy and BPM updates require changes, the following are default settings for the CAISO BA:

- Net Export Constraint is Activated all hours
- Stressed Hours are Checked (Active) for HE17 through HE21
- Confidence Factor = 0%

The Reliability Margin is updated daily and set equal to the CAISO BA MSSC for HE17 through HE21 as defined in the Day Ahead.

Take the following actions to request DAM Reliability Margin requirements for CAISO BA in the Day-Ahead Market:

CAISO Generation Dispatcher / CAISO Manager, BA Operations
<ol style="list-style-type: none"> 1. Review the advisory RSE results available on CMRI as well as the Stressed Hour Report. 2. Consider a Reliability Margin above the default settings or in a non-stressed hour. 3. Notify the Market Operator <u>and</u> submit requested Reliability Margin <u>prior to 0930</u>.


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A.3.1.9. RUC Net Short Determination

Take the following actions to make the necessary adjustments in the RUC process:

CAISO Generation Dispatcher / CAISO Manager, BA Operations												
<p>1. As described in Tariff Section 31.5.3.1.1, consider adjusting the RUC target adjustment as necessary, taking the following into consideration:</p> <ul style="list-style-type: none"> • Demand Response • Load Forecast errors – Risk Predictor • Fire dangers – Cal Fire and PTO updates • Weather changes – updated weather forecasts and PTO updates • Reliability Coordinator next-day analysis – from the RC • Potential loss of resources – test energy, update from PTOs, subsequent Outages • Stranded Capacity – potential for transmission Outages or overloads • Address reliability concerns or need for additional capacity “insurance” to cover the following operational risks: <ul style="list-style-type: none"> ○ Tighter Resource Adequacy (RA) supply margins, as identified by the Assistance Energy Transfer (AET) Yellow System Conditions Alert email,¹ including days where the CAISO opts-in to AET. ○ Weather forecasts where additional Regulation is procured to cover cloudy and other weather-related volatility. <ul style="list-style-type: none"> ▪ West-wide grid impacts where the WEIM footprint is experiencing weather, as designated by a Peak Outlook alert as extreme conditions within the 95-98th percentile of normal ranges. ▪ Adjustments for reducing uncertainty during times of less operational uncertainty and increasing during times of more operational uncertainty. The following conditions-based values allow for generally lower percentile adjustments, based upon net load uncertainty and the described conditions above: 												
<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr style="background-color: #333; color: white;"> <th style="padding: 5px;">Peak Load</th> <th style="padding: 5px;">Percent of Max IR requirement</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;"><29,999</td> <td style="text-align: center; padding: 5px;">0%</td> </tr> <tr> <td style="text-align: center; padding: 5px;">30,000 to 31,999</td> <td style="text-align: center; padding: 5px;">4%</td> </tr> <tr> <td style="text-align: center; padding: 5px;">32,000 to 36,999</td> <td style="text-align: center; padding: 5px;">4%</td> </tr> <tr> <td style="text-align: center; padding: 5px;">37,000 to 41,999</td> <td style="text-align: center; padding: 5px;">50%</td> </tr> <tr> <td style="text-align: center; padding: 5px;">>42,000</td> <td style="text-align: center; padding: 5px;">100%</td> </tr> </tbody> </table>	Peak Load	Percent of Max IR requirement	<29,999	0%	30,000 to 31,999	4%	32,000 to 36,999	4%	37,000 to 41,999	50%	>42,000	100%
Peak Load	Percent of Max IR requirement											
<29,999	0%											
30,000 to 31,999	4%											
32,000 to 36,999	4%											
37,000 to 41,999	50%											
>42,000	100%											

¹ See [Energy Imbalance Market BPM](#), under Section 11.3.2 Resource Sufficiency Evaluation for details on the AET opt-in / opt-out criteria for the CAISO BAA.

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CAISO Generation Dispatcher / CAISO Manager, BA Operations


Note: During lower uncertainty and forecast deviations time periods (such as peak solar hours), dispatchable resources in the market (including WEIM transfer) and regulating resources can effectively manage the determined uncertainty. **The two ranges with the same percentages is used for implementation in different hours.**

- The inputs are the percentage of the full Imbalance Reserve that will be added to the RUC load adjustment based on peak load level bands less the Imbalance Reserves procured in IFM. The full imbalance reserves used in this RUC adjustment process are based on the dynamic threshold set at the 97.5th percentile.
- **Consider** RUC adjustments to only morning and evening peak hours (e.g., Morning HE07-HE09 and Evening HE19-HE21) where the exact hours may be adjusted due to seasonal shifts.

2. If a **manual** RUC modification is required for any reason (*Example: The net short to reflect Demand Curtailment available pursuant to a Demand Response Program*):

- **Determine** the appropriate values in MW for each interval of tomorrow's trade date, and the Reason from the list above into the RUC Net Short screen.
- **Submit** the required RUC Net Short adder as part of the DA Setup Template **by 1000 PPT.**

Note: The RUC Adjustment values, and reason are automatically published to OASIS **with DAM results.**

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A.3.2. Evaluate DAM Results

CAISO Generation Dispatcher / CAISO Transmission Dispatcher / CAISO BA Operations Engineer / CAISO Manager, BA Operations
<ol style="list-style-type: none"> Evaluate DAM results <u>and plan and set-up</u> future market runs. Attend the 1530 Grid Ops meeting to discuss the results of the DAM and potential Exceptional Dispatches for RTM. Consider the need to issue Exceptional Dispatches. <p><i>Note: This may be due to system, zonal, or local reasons including, but not limited to, any of the following:</i></p> <ul style="list-style-type: none"> <i>Load Forecast errors – Risk Predictor</i> <i>Fire dangers – Cal Fire and PTO updates</i> <i>Weather changes – updated weather forecasts and PTO updates</i> <i>Reliability Coordinator next-day analysis – from the RC</i> <i>Potential loss of resources – test energy, update from PTOs, subsequent Generation Outages</i> <i>Actual or potential forced transmission Outages after the DAM closed</i> <i>Stranded Capacity – potential for transmission Outages or overloads</i> <i>Address reliability concerns</i>


CAISO Generation Dispatcher
<ol style="list-style-type: none"> Evaluate the DAM results for Overgeneration conditions: <ul style="list-style-type: none"> If the possibility for Overgeneration exists, <u>at the 1530 meeting,</u> <ul style="list-style-type: none"> Discuss the potential for, and the estimated magnitude of, the Overgeneration in the CAISO Balancing Authority relevant to particular hour(s) of the Trading Day.

A.3.2.1. D+2 & D+4 Determination

The following describes reviewing the results of the two (2) days out power flow and the **four (4)** days out power flow:

CAISO Generation Dispatcher / CAISO Operations Engineering Services / CAISO Manager, BA Operations
<ol style="list-style-type: none"> If ELC units are selected by MPM, <ul style="list-style-type: none"> Determine the Long-Start requirement commitment of necessary unit(s), depending on anticipated system conditions. <p><i>Note: DAM Bids from ELC resources are deemed as Bids for the day after the DAM.</i></p>


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CAISO Generation Dispatcher / CAISO Operations Engineering Services / CAISO Manager, BA Operations
<p><i>Refer to CAISO Operating Procedure 2330 Real-Time Exceptional Dispatch for a description of ELC units that require Start-Up steam from another unit and the combined estimated Start-Up time.</i></p> <p>2. If an ELC unit is needed, but the identified unit was not selected,</p> <ul style="list-style-type: none"> • Determine the Long-Start requirement commitment of necessary unit(s), depending on anticipated system conditions <u>and</u> • Create an Exceptional Dispatch, if necessary.

CAISO Generation Dispatcher
<p>1. If Operator identifies the ELC unit as necessary, the CAISO Manager of BA Operations will have the Generation Dispatcher notify the SC, within the Start-Up period for the ELC resource, that the resource is committed for Operating Day two (2) days out.</p> <p>2. If Operator does <u>not</u> commit the ELC unit,</p> <ul style="list-style-type: none"> • Take no action. <p><i>Note: If an ELC unit is committed, the CAISO Tariff requires the ELC resource to submit the same Bid in the DAM for the next day.</i></p> <p>3. Enter the required manual commitment in the DAM.</p> <p>4. Log this activity in SLIC.</p>

Scheduling Coordinator (SC)
<p>1. If the CAISO dispatched your ELC unit,</p> <ul style="list-style-type: none"> • Submit the same Bid in the DAM for the target day. <p><i>Note: If a subsequent Bid for the ELC unit is not submitted in the DAM then the unit will not be paid. If the unit is not started then it must have an Outage card submitted.</i></p>


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A.3.2.2. Generator Decommitment

The following describes the actions for post IFM shutdown issues:

Scheduling Coordinator (SC)
<p>After reviewing the post IFM/RUC Advisory Schedules, if there is a concern that a resource will <u>not</u> be able to meet its DA Schedule:</p> <ul style="list-style-type: none"> • Contact the CAISO Generation Dispatcher. • Request if the resource is required for system stability or reliability. • Advise the CAISO of the SC's intent to continue to Bid the resource in RT or not submit Bids.

CAISO Generation Dispatcher
<ol style="list-style-type: none"> 1. If an SC has requested to shut down or reduce a resource due to a concern that the resource will <u>not</u> be able to meet its DA Schedule: <ul style="list-style-type: none"> • Inform the SC if the resource is needed for system stability and/or reliability: <ul style="list-style-type: none"> ○ If the resource is required for reliability, <ul style="list-style-type: none"> ▪ Refer to CAISO Operating Procedure 2330 Real-Time Exceptional Dispatch to determine if the units should be Dispatched under that method. ○ If the resource is required for stability, and as long as Bids will be provided, <ul style="list-style-type: none"> ▪ No operator action is required. 2. If IFM/RUC has issued an advisory Schedule that will shut down or limit the resource from meeting its minimum Start-Up/shut-down requirements: <ul style="list-style-type: none"> • Consider issuing an Exceptional Dispatch. • Refer to CAISO Operating Procedure 2330 Real-Time Exceptional Dispatch.

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B.3 Day-Ahead Reliability Must Run Unit Commitment and Dispatch Procedure Detail


B.3.1. Energy Dispatching

B.3.1.1. Dispatch Philosophy

Manual RMR dispatch in the Day-Ahead is determined based upon next day power flow studies and two-day forward (D2) market results. RMR dispatch may be determined where:

1. Minimum Online Capacity (MOC) results in D2 indicate a local shortage of MWs required for voltage/thermal support,
2. D2 Power Flow results indicate an infeasibility based upon a shortage of available local market resources, or
3. Non-competitive congestion is determined locally, where the given Legacy RMR location and based upon its shift factors, the RMR resource can provide congestion relief.

CAISO Manager, BA Operations
<p>1. Review the power-flow results, including dispatch of RMR.</p> <p>Note: <i>Per the CAISO Tariff, an RMR resource can receive a manual RMR Dispatch in Day-Ahead.</i></p> <ul style="list-style-type: none"> • If a manual RMR is required in Day-Ahead, <ul style="list-style-type: none"> ○ Create a Day-Ahead manual RMR dispatch. Refer to CAISO Desktop Procedure RTM-004 Day-Ahead ED Guide and Logging Instructions.

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C.3 Day-Ahead Exceptional Dispatch Procedure Detail

C.3.1. Day-Ahead Exceptional Dispatch (ED)

The following provides guidance for issuing a Day-Ahead ED:


C.3.1.1. Description of an Exceptional Dispatch

An ED is a commitment or Dispatch Instruction by CAISO Operators, which is not a result of the market optimization in the IFM, RUC or RTM. To the extent possible, the CAISO utilizes market solutions before issuing an ED.

C.3.1.2. Day-Ahead Exceptional Dispatch

Take the following actions to issue an Exceptional Dispatch prior to running the Day-Ahead Market:

CAISO Generation Dispatcher
<p>1. Prior to running the DAM, determine the need to Day-Ahead ED a resource for a reliability purpose.</p> <ul style="list-style-type: none"> • Valid reasons for creating a Day-Ahead ED may include: <ul style="list-style-type: none"> ○ Where a Day-Ahead ED provides a more accurate Gas-Burn report, especially during gas limitations. ○ In support of a multi-day transmission outage, requiring a single-resource online for congestion and reliability purposes. ○ A large resource may be given a Day-Ahead ED for capacity purposes, to ensure the resource is online and stable before a series of high-load summer days. • After the above considerations, if it is still determined that a resource should be required in the Day-Ahead solution, a Day-Ahead ED may be created. <p><i>Note: Any unit that was exceptionally dispatched in the Day-Ahead Market must be added to the RT ED Tool for the duration of the Exceptional Dispatch period (in some cases it may require adding it daily).</i></p> <p>2. Confirm with the Manager of BA Operations and the Market Operator, any Day-Ahead ED required for reliability.</p> <p>3. Confirm RA status and available RA MWs.</p> <p><i>Note: If the exceptionally dispatched resource is a non-RA resource, an ED may trigger a CPM offer at PMin. If the CPM is accepted, then there will be a must offer obligation for the CPM amount.</i></p> <p>4. Inform the SC about the Exceptional Dispatch commitment and duration.</p>


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CAISO Generation Dispatcher
<p>5. Utilizing the ED Tool,</p> <ul style="list-style-type: none"> • Confirm RA status and available RA MWs. • Create an Exceptional Dispatch <u>and</u> • Commit those resources that are required to meet the reliability requirements of the Balancing Authority Area. <p>6. Determine the code in CAISO Operating procedure 2330C Exceptional Dispatch Instruction Type Codes.</p> <p>7. To ensure proper settlement Start-up cost and Bid Cost Recovery (BCR), for all Exceptional Dispatches in either the Day-Ahead or Real-Time period, the ED time shall be entered as the maximum of either:</p> <ul style="list-style-type: none"> • ED time length required for Operations and reliability needs. • The length of Minimum Online registered in the MasterFile.

C.3.1.3. Energy, Reserves and Congestion Mitigation

The following describes dispatching of Energy, reserves, and Congestion management.


Reason	Dispatch Description
Energy	<ul style="list-style-type: none"> • RA, partial RA, non-RA, or CPM unit Capacity dispatched as Energy in RT is done through the market application RTM. Other dispatches should be done with the Exceptional Dispatch Tool, and when possible, dispatched economically. The Long Start Economic Consideration Tool should be used to evaluate the most economical options.
Congestion Mitigation	<ul style="list-style-type: none"> • All resources can be dispatched through the market application, as required for Congestion Mitigation. • Capacity with an effectiveness factor or determined effective by Operating Engineer (OE) study can be dispatched, as needed, through Exceptional Dispatch for Congestion Mitigation outside of the market applications, economically utilizing the Exceptional Dispatch tool.

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C.3.1.4. Economic Considerations

The following describes the economic considerations that should be considered before issuing an ED:

- Units that have been awarded a Day-Ahead RUC or a Spin/Non-Spin Schedule.
- For a unit getting the standard CPM rate of \$55,000/MW-year, each MW of CPM designation will cost \$4,583 per month.
- A unit electing Supplemental Revenues (SR) and bidding \$1,000/MWh can earn its revenue cap in approximately 7-10 hours, depending on its Default Energy Bid (DEB). However, the revenue cap is set by the CPM rate and the available MWs of the unit. Hence, an SR unit can, in principle, earn no more than an equally sized CPM resource.
- A unit's SR cap is set by its PMax. So, an SR unit that is twice the size of a unit electing the CPM compensation can earn approximately double in Supplemental Revenues (SR), that the CPM unit can earn in CPM payments. This requires the SR unit to be Exceptionally Dispatched above PMin for sufficient hours, to earn that additional revenue (7-10 hrs.).
- An SR unit's Bids can be updated hourly. Therefore, the Bid for one hour may not be an indication of what the cost of the SR unit will be in the next hour. Assume that any SR unit that is subject to ED will increase its Bid in the subsequent hour, where possible.
- All ED to non-RA units with CPM election should be reviewed for upcoming Scheduled Outages during the 30-day period.
- Units with RA < PMin are treated as RA = PMin.
- Units electing SR and Committed at PMin receive no Supplemental Revenues until dispatched above PMin. Units electing CPM get paid a Capacity payment.
- Generally, commitment of SR resources is cost effective for smaller units and resources required near their PMin for most hours during the 30-day period.

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D.3 Ancillary Service Procurement and Availability Validation Procedure Detail

D.3.1. Contingency Reserve (Operating Reserve - Spinning & Operating Reserve - Supplemental)

The following describes the steps that are taken to meet the NERC Contingency reserve requirements and Control Performance Standards:


Sufficient Contingency reserves are procured in the Day-Ahead Market (DAM) to meet 100% of the Contingency reserve Ancillary Service (AS) requirement associated with the CFCD to satisfy Current NERC Standards. If additional Contingency reserves are necessary after the DAM, then the additional contingency reserves are purchased through the RTM. The Contingency reserve requirement is calculated by taking the greater of the:

- Most Severe Single Contingency (MSSC)
 - This requirement refers to the hourly MSSC determination, which may include loss of the largest online generator (e.g., Diablo), loss of import schedules across one transmission service (e.g., PDCI, Sunzia, Windhub), or the loss of numerous generating resources connected via a RAS scheme or single transmission line. In the Day-Ahead timeframe, transmission-based MSSC based upon the sudden loss of an import due to a forced outage of transmission equipment is estimated with the best-information available including forecasts, past-usage patterns and adjustments based upon operator experience.
- The sum of three percent of hourly integrated Load (generation minus station service, minus Actual Net Interchange (NIA)), plus three percent of hourly integrated generation (generation minus station service).
 - For Day-Ahead procurement purposes, the three percent Load plus three percent Generation NERC requirement may be substituted with a larger percentage value, based upon the load forecast and greater than or equal to 6.0 percent of the Day-Ahead load forecast.
- Online Photovoltaic Solar
 - This requirement is based upon the loss of some solar resources with earlier-based inverters in certain voltage fluctuation situations. Based upon the occurrences studied and observed, this AS procurement target may be equal to or greater than 10% of the hourly sum of all the solar resources at-risk forecast.

Day-Ahead and D+2 AS requirements are posted on [OASIS](#), under Ancillary Services.

Note: *Dynamic imports and pseudo-tie imports are included with hourly integrated generation.*

Minimum and/or maximum AS limits may also be determined for each/any AS Region.

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Consider one or more of the following factors:


- Path Contingency de-ratings (example: loss of Path 26),
- Path OTCs,
- Largest single Contingency (on-line Generating Unit or in-service transmission),
- Forecasted path flows, and
- Other anticipated local operating conditions for Load and/or Generation.

CAISO Generation Dispatcher / CAISO Manager, BA Operations
<p>1. If it is necessary for the CAISO to establish a procurement limit or change a procurement limit for an AS Region:</p> <ul style="list-style-type: none"> • Submit any changes in regional procurement requirements to the Market Operator • Request the Market Operator provide a Market Notice by 6:00 pm two days ahead of the operating day, whenever practicable. <p><i>Note: Change will only be posted on OASIS, and no market notice will be sent if it is less than two days prior to Real-Time.</i></p>

D.3.2. Regulating Reserves

Sufficient Generating Units are required to immediately respond to Automatic Generation Control (AGC) in the CAISO Balancing Area for a continuous balance between resources and Demand. The following provides information for meeting the requirements for NERC Control Performance Standards:

Regulation procurement is Dynamic and may be adjusted daily or hourly, by the CAISO Manager of BA Operations or the CAISO Generation Dispatcher. Due to operating variances or system conditions, it may be necessary to adjust the procurement amount to be higher or lower.


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D.3.3. Ancillary Service Regions

AS may be procured regionally in the following regions:

AS regions are posted on OASIS. If the AS region is changed more than two days prior to Real-Time, then the CAISO will post a Market Notice clarifying the changes. If the change is made less than two days prior to Real-Time, then the change will only be posted on OASIS, and no Market Notice will be sent.

	AS Region Name	Description of AS Region (set of resources included in AS Region)		AS Region Status
		Internal CAISO Control Area	Intertie Resources (Current Scheduling Points)	
1	<i>Expanded System</i>	All internal Generators	All	Active
2	<i>System</i>	All internal Generators	None	Active
3	<i>South of Path 15</i>	All Generation residing South of Path 15	None	Active
4	<i>Expanded South of Path 15</i>	All Generators residing South of Path 15	NW3, SR3, NV3, NV4, AZ2, AZ3, AZ5, LC1, LC2, LC3, MX, LA1, LA2, LA3, LA4, LA7	Active
5	<i>South of Path 26</i>	All Generators residing South of Path 26	None	Active
6	<i>Expanded South of Path 26</i>	All Generators residing South of Path 26	NW3, SR3, NV3, NV4, AZ2, AZ3, AZ5, LC1, LC2, LC3, MX, LA1, LA2, LA3, LA4, LA7	Active
7	<i>North of Path 15</i>	All Generators residing North of Path 15	None	Active
8	<i>Expanded North of Path 15</i>	All Generators residing North of Path 15	NW1, NW2, SR5, SR2, SMUD, TID	Active
9	<i>North of Path 26</i>	All Generators residing North of Path 26	None	Active
10	<i>Expanded North of Path 26</i>	All Generators residing North of Path 26	NW1, NW2, SR5, SR2, SMUD, TID	Active

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D.3.4. Planned Outages

Planned resource Outages are tracked to help determine AS availability through the following methods:

Scheduling Coordinator (SC) / Participating Generator (PG)
<ol style="list-style-type: none"> Submit to the CAISO Operations Planning Department, each quarter, Schedules of planned Outages for each resource, for the next 12-month period. Contact the CAISO Operations Planning Department with any changes to the quarterly Schedule, to ensure correct timelines.


CAISO Operations Planning
<p><i>Note: Planned Outages are automatically updated in the Outage Scheduler, based on the quarterly Outage information, or recent updates to the annual planned Outage Schedule as recorded in the outage management system.</i></p> <ol style="list-style-type: none"> Conduct periodic verification of the submitted planned Outage timelines, with the SCs/Participating Generators.

D.3.5. Forced Outages


Forced resource Outages are tracked to help determine AS availability through the following methods:

Scheduling Coordinator (SC) / Participating Generator (PG)
<ol style="list-style-type: none"> If a resource is forced out-of-service, <ul style="list-style-type: none"> Inform the CAISO Generation Dispatcher by submitting an Outage Request, via the outage management system interface.

CAISO Generation Dispatcher
<ol style="list-style-type: none"> If monitoring indicates that a resource has separated from the system <u>and</u> an Outage Request or a phone call is <u>not</u> received from the SC or Participating Generator, <ul style="list-style-type: none"> Contact the responsible party to determine if the separation is due to a Forced Outage.

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CAISO Generation Dispatcher / Scheduling Coordinator (SC) / Participating Generator (PG)
<p>1. Create a record in the outage management system for resources that are forced out-of-service. The record includes the following information:</p> <ul style="list-style-type: none"> • Resource, • SC/Participating Generator, • Amount of resource unavailable, • Time the resource is unavailable, • Estimated time of return, • Time the resource was available, and • Reported cause. <p><i>Note: The Outage Scheduler is automatically updated to reflect the time duration of the Forced Outage whenever an outage management record is initiated. The Outage Scheduler is updated to reflect the return of the resource at such time when the SC declares the resource available when the outage management record is updated. Out-of-service Resources are blocked from Day-Ahead AS procurement. Outages submitted after the Day-Ahead Market Close will not be reflected in the next trade date.</i></p>

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E.3 Pre-Market Validation Procedure Detail

E.3.1. 08:00 Daily Meeting


The 08:00 Meeting includes the following:

CAISO Manager, BA Operations
<ol style="list-style-type: none"> Capture issues and constraints not previously identified from the previous Operating Day's actual results, including mitigation actions required, Exceptional Dispatches and Unit Commitments.

CAISO BA Operations Engineer
<ol style="list-style-type: none"> Review Outages added or removed since the previous day's reports <u>and</u> Provide reports of Outages, including updates to the outage management system, generation requirements, active Nomograms, contingencies, and transmission corridor or path de-rates for the next day.

CAISO Validation and Review Team								
<ol style="list-style-type: none"> Review unexplained binding constraints for today's Day-Ahead Market (DAM). Consider yesterday's D+2 and RUC Binding Commitments. Review historical and current unexplained binding constraints, including the following: <table border="1" data-bbox="295 1249 1404 1596"> <thead> <tr> <th style="background-color: #e0e0e0;">Concern</th> <th style="background-color: #e0e0e0;">Possible Actions</th> </tr> </thead> <tbody> <tr> <td>Market Activity</td> <td>Verify if constraints are consistent with expectations.</td> </tr> <tr> <td>Flowgates, Contingencies, Nomograms</td> <td>Get the list from CAISO Operations Planning Engineer for all Flowgates, Contingencies, and Nomograms to be un-enforced in the DAM run.</td> </tr> <tr> <td>Infeasible solutions</td> <td>Report any infeasible solution to the Validation and Review Lead for possible resolution <u>before</u> proceeding with the market run.</td> </tr> </tbody> </table> Flag out all listed items to be un-enforced, <u>before</u> running the DAM and <u>after</u> transferring the input. Take appropriate action, based on stated objectives in Section A.2.1 Background. Record all issues and actions in the SLIC Log. <p>Note: <i>Enforced Contingency restraints and binding restraints are posted on the CAISO website.</i></p>	Concern	Possible Actions	Market Activity	Verify if constraints are consistent with expectations.	Flowgates, Contingencies, Nomograms	Get the list from CAISO Operations Planning Engineer for all Flowgates, Contingencies, and Nomograms to be un-enforced in the DAM run.	Infeasible solutions	Report any infeasible solution to the Validation and Review Lead for possible resolution <u>before</u> proceeding with the market run.
Concern	Possible Actions							
Market Activity	Verify if constraints are consistent with expectations.							
Flowgates, Contingencies, Nomograms	Get the list from CAISO Operations Planning Engineer for all Flowgates, Contingencies, and Nomograms to be un-enforced in the DAM run.							
Infeasible solutions	Report any infeasible solution to the Validation and Review Lead for possible resolution <u>before</u> proceeding with the market run.							

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E.3.2. 15:30 Daily Meeting

The 15:30 meeting includes the following:

CAISO Manager, BA Operations
1. Identify ongoing mitigation issues, Unit Commitments, and Exceptional Dispatches.

CAISO BA Operations Engineer
1. Review the following <u>and provide</u> reports of Outages for the next 1-4 days (providing day-of-the-week information is available): <ul style="list-style-type: none"> • No Call Outages approved for the period under review, • Outages that have impact on market and State Estimator models, • Outages added or removed since previous days reports, • Updates to: <ul style="list-style-type: none"> • Outage management system, • Generation requirements, • Nomograms and contingencies required, and • Transmission Corridor or Path derates.

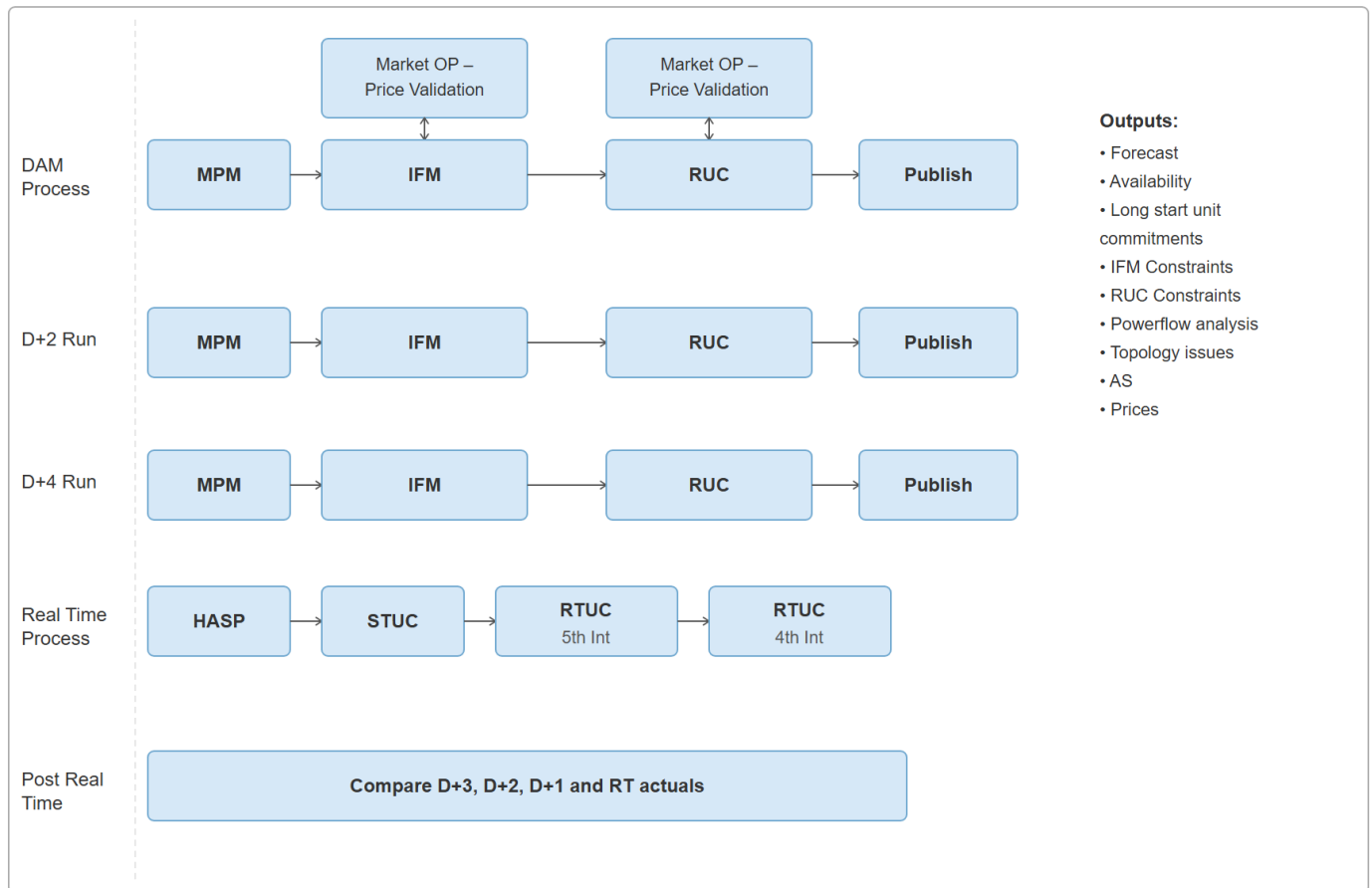
Market Operator
1. Discuss the following: <ul style="list-style-type: none"> • Binding constraints from of Day-Ahead (DA) results. • Any immediate issues from DA results just published. • Units committed in D+1 through the Market, based on different procedures (i.e., CAISO Operating Procedures 7820 San Diego Area, 7630 Orange County Area Requirements, 6510 SCIT, etc.). • Any possible additional Unit Commitments or Exceptional Dispatches due to reliability requirements. • Any possible ELC unit(s) needed.

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E.3.3. Flowchart

The following flowchart describes the validation process with respect to the DAM and RTM:

Validation Process - DAM & RTM Flowchart



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F.3 Day-Ahead Market Suspension and Intervention Procedure Detail

F.3.1. Day-Ahead Market Suspension or Intervention

In the case that the Day-Ahead Market is Suspended by the Market Operator or is unable to produce results take the following actions to notify Market Participants of the state of the Day-Ahead Market by 1800 PPT.

CAISO Director, BA Operations / CAISO Manager, BA Operations
<p>1. In the event the Market Operator has <u>not</u> published the Day-Ahead Market results by 1800:</p> <ul style="list-style-type: none"> • If the Market Operator determines that the CAISO will publish the previous day's Day-Ahead Market results: <ul style="list-style-type: none"> ▪ Notify Market Participants, via ADS, that the Day-Ahead Market has been suspended and the CAISO will publish the previous day's Day-Ahead Market results, pursuant to Tariff Section 7.7.9(b)(1)(A). • If the Market Operator determines that the CAISO is <u>unable</u> to publish any Day-Ahead Market results, the CAISO BA will instead request Market Participants to follow the previous day's Day-Ahead Market results, pursuant to Tariff Section 7.7.9(b)(1)(A): <ul style="list-style-type: none"> ▪ Notify Market Participants, via ADS, that the CAISO is unable to publish any Day-Ahead Market results, and request all Market Participants to follow the previous day's Day-Ahead Market results. • If the Market Operator determines that the CAISO will suspend the publication of any Day-Ahead Market results: <ul style="list-style-type: none"> ▪ Notify Market Participants, via ADS, that the CAISO has suspended the Day-Ahead Market, will <u>not</u> publish any Day-Ahead Market results, and the CAISO BA will rely on the use of Exceptional Dispatch and other manual instructions and on the Real-Time Market results, pursuant to Tariff Section 7.7.9(b)(1)(B).

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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 influence some steps taken herein include but are not limited to:


CAISO Tariff	Sections 7.7.1, 7.7.3 and 7.7.9
CAISO Operating Procedure(s)	2330 Real-Time Exceptional Dispatch 6510 SCIT 7630 Orange County Area Requirements 7820 San Diego Area
NERC Requirements	BAL-005-1 R6
WECC Criterion	BAL-004-WECC-4
Other References	Business Practice Manual: Market Operations

Definitions

Unless the context is otherwise indicated, 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:

AS	Ancillary Services
Availability	<p>Measured in MW, it is the maximum quantity of Energy or AS (measured at the point of delivery) the unit can produce at any given time (assuming adequate time to ramp to that maximum quantity).</p> <p>Sufficient availability of usable water is assumed when determining the availability of hydroelectric facilities.</p>
CFCD	Cal ISO Forecast Cal ISO Demand
CMRI	Customer Market Results Interface

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CPM	Capacity Procurement Mechanism. The CPM enables the CAISO to acquire Generation capacity through Exceptional Dispatches to: (1) Maintain grid reliability if Load Serving Entities fail to meet Resource Adequacy requirements. (2) Procured Resource Adequacy Resources are insufficient. (3) Unexpected conditions, i.e., significant events, create the need for additional capacity. The CPM replaces the Interim Capacity Procurement Mechanism
DA	Day-Ahead
DAM	Day-Ahead Market
Dynamic System Resource	A System Resource that has satisfied the CAISO's contractual and operational requirements for submitting a Dynamic Schedule, and for which a Dynamic Schedule has been submitted, including a Dynamic Resource-Specific System Resource.
ED	Exceptional Dispatch
EDE	Exceptional Dispatch Energy
ELC	Extremely Long-Start Commitment
Exceptional Dispatch	A Dispatch Instruction issued outside of the market applications for reliability purposes, specified in Section 34.9 of the CAISO Tariff. Energy from Exceptional Dispatches does not set the LMP at the applicable PNode.
HASP	Hour-Ahead Scheduling Process
IFM	Integrated Forward Market
MED	Manual Economic Dispatch
NQC	Net Qualified Capacity
OE	Operations Engineer
PPT	Pacific Prevailing Time (PST or PDT as applicable)
RA	Resource Adequacy – a resource that is designated in a Supply Plan to provide RA Capacity. The criteria for determining the types of resources that are eligible to provide Qualifying Capacity may be established by the CPUC or other applicable Local Regulatory Authority and provided to the CAISO.
Real-Time Operations Management Team	Grid Operations Manager; Manager, Market Operations Coordination; Director, BA Operations; and VP, System Operations (or their designated representative).
RR	Reliability Requirement (RR) capacity is the sum of RA and ICPM capacity and is required to be offered to the CAISO.
RT	Real-Time
RTM	Real-Time Market

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RUC	Residual Unit Commitment
SIBR	Scheduling Infrastructure Business Rules
Spinning Reserves	The portion of unloaded synchronized Generating Capacity, controlled by the CAISO, which is capable of being loaded in ten (10) minutes, and which can run for at least two hours.
SR	<p>Supplemental Revenue – Bid-based Energy payments that are not subject to the same Bid mitigation rules as other units dispatched under Exceptional Dispatch (or those dispatched through the CAISO markets), but subject to a cap on the supplemental revenues that can be earned by a resource.</p> <p>It equals the higher of: (1) the Energy Bid price minus the Default Energy Bid or (2) Resource Specific Settlement Interval Locational Marginal Price minus the Default Energy Bid for Exceptional Dispatches subject to bid mitigation, pursuant to CAISO Tariff Section 39.10.</p>
Synchronous Condenser	A Unit that is electrically connected to the CAISO Controlled Grid or Distribution Grid to provide AS in circumstances where the generator is not producing Energy.
System Unit	One or more individual Generating Units and/or Loads within a Metered Subsystem controlled to simulate a single resource with specified performance characteristics, as mutually determined and agreed to by the MSS Operator and the CAISO. The Generating Units and/or Loads making up a System Unit must be in close physical proximity to each other, such that the operation of the resources comprising the System Unit does not result in significant difference in flows on the CAISO Controlled Grid.
Voltage Support	<p>An Ancillary Service required for maintaining normal operating conditions to prevent transmission lines and transformers from overloading.</p> <p>Units not under contract as Synchronous Condensers may also be called to raise or lower their Energy output to fulfill Voltage Support needs.</p>

Version History


Version	Change	Date
18.5	<p>Updated references of ISO to CAISO.</p> <p>Section B.3.1.1: Clarified between Legacy and Non-Legacy RMR Manual Dispatch.</p> <p>Section B.3.1.2: Removed most content (Retired Day-Ahead EverBridge dispatch process for Condition 1 RMR with MOO, as it is no longer in use) and included with Section B.3.1.1.</p> <p>Section B.3.1.3: Removed this section of Real-Time activities from this Day-Ahead procedure (See 2310 for Real-Time activities).</p> <p>Minor format and grammar updates.</p>	2/12/21

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 California ISO	Operating Procedure	Procedure No. 1210
		Version No. 20.0
		Effective Date 5/01/26
Day-Ahead Market		Distribution Restriction: None

Version	Change	Date
18.6	Added Section A.3.1.9 on suspending Convergence Bidding. References: Updated NERC Standard BAL-005 reference. Removed history prior to five years.	12/10/21
18.7	Periodic Review: No changes.	2/10/22
18.8	Added details to the RUC Net Short process.	6/01/22
18.9	Removed 50% spin procurement requirement in Section E.3.1. Under the prior standards, at least 50% of contingency reserves had to be Spinning Reserves. WECC has eliminated the requirement that a Balancing Authority maintain at least 50% of its contingency reserves as Spinning Reserve. Minor edit to procedure reference in Section B.3.1.1.	4/01/23
19.0	Section G.3.1: Removed Step 1 for Emergency Response Coordinator notification.	6/09/23
19.1	Renamed RTMO and Day-Ahead Market Operator to Market Operator, Generation Desk to Generation Dispatcher, Transmission Desk to Transmission Dispatcher, and Shift Manger Desk to Shift Manager. Updated reference link for desktop procedure RTM-004 (Internal only).	9/05/23
19.2	Replaced Shift Manager with Manager, Real-Time Operations and Manager of Real-Time Operations.	9/14/23
19.3	Updates for RUC net short criterion, which includes Operation RA, uncertain weather, and west-wide grid impacts.	12/21/23
19.4	Removed Legacy RMR concepts and steps throughout and renumbered accordingly. Removed history prior to five years.	1/01/24
19.5	Section D.3.1: Changed Solar contribution to contingency reserves to 10% or greater. Minor edit in References section and removed history prior to five years.	4/23/24
19.6	Section A.3.2.3: Added philosophy and implementation considerations for RUC Adjustments.	5/07/24
19.7	Periodic Review: Updated language in Section C.3.1.4, replacing MED tool with Exceptional Dispatch tool under Dispatch Description for both Energy and Congestion Mitigation. Updated definition for Real-Time Operations Management Team due to role and title changes. Minor formatting and grammar edits throughout. Removed history prior to five years.	1/23/25
19.8	Updated from Manager of Real-Time Operations to Manager, Balancing Authority (BA) Operations or Manager of BA Operations in some instances. Updated from Director of Real-Time Operations to Director, BA Operations. Section D.3.1: Replaced net actual Interchange with Actual Net Interchange (NIA), per BAL-004-WECC-4 update for 10/01/25. Added BAL-004-WECC-4 to WECC Criterion in References. Added more information on the determination of contingency reserves based upon the sudden loss of transmission equipment.	10/01/25

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		Version No.	20.0
		Effective Date	5/01/26
Day-Ahead Market		Distribution Restriction: None	

Version	Change	Date
	Minor formatting and grammar edits throughout and removed history prior to five years.	
20.0	Updated with removal of various Market Operator tasks that have been moved to new MO1210 procedure to align with EDAM Go-Live. Minor formatting and grammar edits. Minor formatting and grammar edits and removed history prior to five years.	5/01/26

3. Periodic Review Procedure

Review Criteria & Incorporation of Changes

There are no specific criteria for reviewing or changing this document, follow instructions in CAISO Operating Procedure 5510.

Frequency

Every three (3) Years

See Appendix 1: Day-Ahead Market Flowchart on the following page.



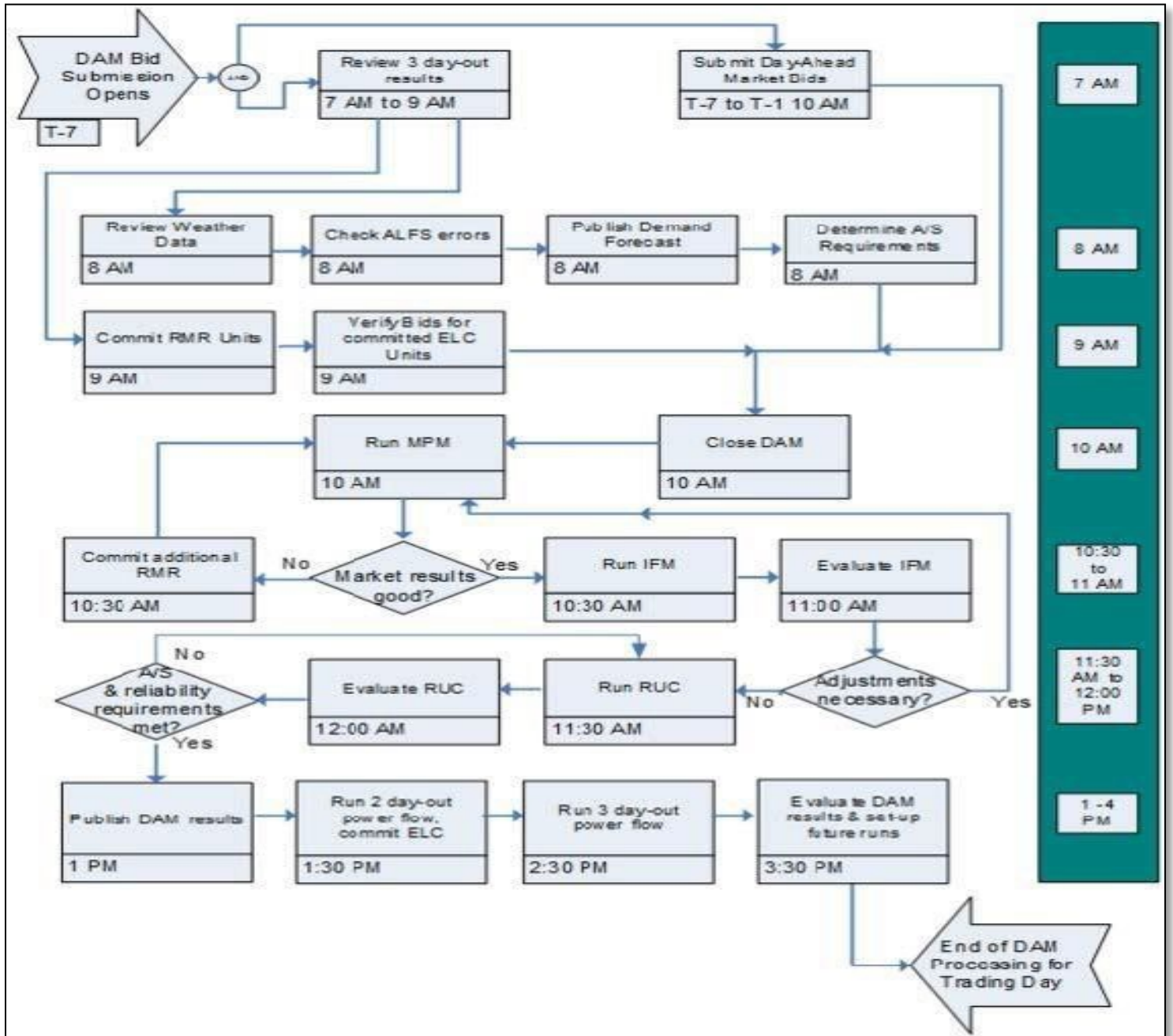
Procedure No.	1210
Version No.	20.0
Effective Date	5/01/26

Day-Ahead Market

Distribution Restriction: None

Appendix 1: Day-Ahead Market Flowchart

The following flowchart describes the Day-Ahead Market activities:



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