Housekeeping

Keep yourself muted to minimize background noise

Unmute to ask verbal questions or write questions in the chat pod

Raise your hand using WebEx interactivity tools

The information contained in these materials is provided for general information only and does not constitute legal or regulatory advice. The ultimate responsibility for complying with the ISO FERC Tariff and other applicable laws, rules or regulations lies with you. In no event shall the ISO or its employees be liable to you or anyone else for any decision made or action taken in reliance on the information in these materials.
Agenda

This training will cover a high-level review of changes to how participants receive ISO Emergency Notifications through:

- ISO Today Mobile App
- CAISO.com *(Emergency Notification & Today’s Outlook)*
- Emergency Notification Email
Operations Notification System (ONS) Tool

BACKGROUND ON THE INITIATIVE
What is Changing?

AWE Tool
Alert, Warning, and Emergency tool is retiring.

Additional Platforms
GMS, MNS/MDS, ADS, and Everbridge.

ONS Tool
Operations Notification System Tool allows for all in one approach for communication.

Acronyms:
- Grid Messaging System (GMS)
- Market Notification System/Market Definitions Service (MNS/MDS)
- Automated Dispatch System (ADS)
CHANGES TO THE ISO TODAY MOBILE APP – ALL TECHNOLOGY PLATFORMS

Added: The example screenshots throughout this training utilizes fake data (e.g., emergency notifications issued).
ISO Today Mobile App – Current

Clicking the bell icon will bring users to the Alerts page.

Display shows what is currently in effect.

Alerts display a running list of emergency notifications issued.
ISO Today Mobile App – Future

New Labeling System

TODAY
- What is happening today (it may not be in effect yet).

IN EFFECT
- What is currently taking place.

UPCOMING
- Has not occurred yet.
- This tab will collapse by default to save screen space for users.
Clicking bell icon will now bring users to Notifications page.

Notifications will display a running list of emergency notifications issued.

*Once a user clicks the bell, the notification alert goes away
Questions
CHANGES TO TODAY’S OUTLOOK ON CAISO.COM
Today’s Outlook – Before

Provides high level status of the grid.
Ex. Looking at the RMO, it provides the areas impacted and a link to view all alerts.
Today’s Outlook – After

Grid status will now mirror what users will see on the ISO Today mobile app.
This will contain historical details around the specific emergency notification (e.g., issued, updates).
CHANGES TO THE EMERGENCY NOTIFICATION PAGE ON CAISO.COM
Emergency Notifications Archive Section – Before

Emergency notifications are issued when operating reserves or transmission capacity limitations threaten the ability of the California ISO to safely and reliably operate the grid.

Click here to sign up for Flex Alerts and other ISO communications. Receive notifications of grid emergencies via the ISO Today app or SMS.

Grid resources
- California ISO Peak Load History - 1998 to Present
- Grid Emergency History Report - 1998 to Present
- Summer Heat Event - Process and Communications

Click here for all notifications issued over the past 90 days.

Current Active Notice(s)
No Current Notice

Pending Notices
CAISO Grid Restricted Maintenance Operations [202302778]
The California ISO is declaring CAISO Grid RESTRICTED MAINTENANCE OPERATION for the period from 08/15/2023 12:00 through 08/15/2023 22:00.
Reason:
The ISO is anticipating high loads and temperatures across the CAISO Grid.

Restricted Maintenance Operations, as detailed in CAISO Operating Procedure 4420, will be in effect.
Market Participants are cautioned to avoid actions, which may jeopardize generator and/or transmission availability.
Monitor system conditions on Today's Outlook (http://www.caiso.com/TodaysOutlook/Pages/default.aspx) and check with local electric utilities for additional information.

Notice issued at: 08/11/2023 11:30

Notifications displayed in reverse chronological order

NOTICE: 202302780 POSTED: 2023-08-11 11:30:00

CAISO Grid Restricted Maintenance Operations [202302780]
The California ISO is declaring CAISO Grid RESTRICTED MAINTENANCE OPERATION for the period from 08/17/2023 12:00 through 08/17/2023 22:00.
Reason:
The ISO is anticipating high loads and temperatures across the CAISO Grid.

Restricted Maintenance Operations, as detailed in CAISO Operating Procedure 4420, will be in effect.
Market Participants are cautioned to avoid actions, which may jeopardize generator and/or transmission availability.
Monitor system conditions on Today's Outlook (http://www.caiso.com/TodaysOutlook/Pages/default.aspx) and check with local electric utilities for additional information.

Notice issued at: 08/11/2023 11:30

DISCLAIMER
This CAISO notice is based on the current conditions of the transmission grid system. While this CAISO notice reflects the most current information available to the CAISO, because transmission grid system conditions are subject to sudden and rapid change without warning, the accuracy of this notice cannot be assured. This CAISO notice is provided solely for informational purposes. Reliance by any party on the contents of this CAISO notice, regardless of any errors, omissions, inaccuracies, and/or subsequent changed conditions shall not be made the basis for any claim, demand or cause for action against the CAISO. Any recipient's decisions or actions that may be based in any way whatsoever on the contents of this CAISO notice shall be the sole responsibility of the recipient.

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Emergency Notifications Page on CAISO.com – After

This section will mirror what is on the ISO Today Mobile App.
Emergency notifications

Emergency notifications are issued when operating reserves or transmission capacity limitations threaten the ability of the California ISO to safely and reliably operate the grid.

Click here to sign up for Flex Alerts and other ISO communications. Receive notifications of grid emergencies via the ISO Today app or RIS.b.

Grid history and facts
- System Alerts, Warnings and Emergencies Fact Sheet
- California ISO Peak Load History - 1998 through 2018
- Grid History - 1998 to Present

Click here for all notifications issued over the past 90 days

Grid status

**2 TODAY** 2 IN EFFECT

- EEA Watch
  - Northern CA Region
  - 08/15/2023 21:04 - 23:04 PT  IN EFFECT

- Restricted Maintenance Operations
  - CAISO Grid
  - 08/15/2023 19:56 - 23:56 PT  IN EFFECT

**1 UPCOMING**

- Restricted Maintenance Operations
  - CAISO Grid
  - 08/16/2023 00:00 - 19:05 PT

Emergency notifications archive

View current and past events and notices, view the emergency notifications page.

For in-effect and issued events and notices, view the emergency notifications page.

Emergency notifications (last 90 days)

<table>
<thead>
<tr>
<th>Post-datetime</th>
<th>ID</th>
<th>Event type</th>
<th>Message type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/15/2023, 15:20</td>
<td>20231578061-08</td>
<td>Flex Alert</td>
<td>End</td>
<td>Flex Alert issued for 08/15/2023 13:36 to 08/16/2023 15:20 Central Standard Time (CST)</td>
</tr>
<tr>
<td>08/15/2023, 14:48</td>
<td>20231578061-77</td>
<td>Flex Alert</td>
<td>Update</td>
<td>UPDATE - Flex Alert for Northern CA Region - 202351</td>
</tr>
<tr>
<td>08/15/2023, 13:36</td>
<td>20231578061-83</td>
<td>Flex Alert</td>
<td>Issue</td>
<td>Flex Alert for Northern CA Region effective 08/15/2023 13:36 Central Standard Time (CST)</td>
</tr>
<tr>
<td>08/15/2023, 12:36</td>
<td>20231578061-83</td>
<td>Restricted Maintenance Operations</td>
<td>End</td>
<td>GENERATED Restricted Maintenance Operation - 20231578061-83</td>
</tr>
<tr>
<td>08/15/2023, 12:36</td>
<td>20231578061-83</td>
<td>Flex Alert</td>
<td>Issue</td>
<td>Flex Alert for Northern CA Region effective 08/15/2023 12:36 Central Standard Time (CST)</td>
</tr>
<tr>
<td>08/15/2023, 12:36</td>
<td>20231578061-83</td>
<td>System Emergency</td>
<td>End</td>
<td>System Emergency End update</td>
</tr>
<tr>
<td>08/15/2023, 12:36</td>
<td>20231578061-83</td>
<td>Transmission Emergency</td>
<td>End</td>
<td>DNS Reminder - Event - 202312017328 terminating</td>
</tr>
<tr>
<td>08/14/2023, 16:10</td>
<td>20231578061-83</td>
<td>Transmission Emergency</td>
<td>Issue</td>
<td>System Emergency Notice</td>
</tr>
<tr>
<td>08/14/2023, 15:40</td>
<td>20231578061-83</td>
<td>Transmission Emergency</td>
<td>End</td>
<td>CAISO Grid TRANSMISSION EMERGENCY ENDED</td>
</tr>
<tr>
<td>08/14/2023, 15:05</td>
<td>20231578061-83</td>
<td>Restricted Maintenance Operations</td>
<td>Issue</td>
<td>GENERATION Restricted Maintenance Operation N 20231578061-83</td>
</tr>
<tr>
<td>08/14/2023, 15:03</td>
<td>20231578061-83</td>
<td>Flex Alert</td>
<td>Issue</td>
<td>Flex Alert for South Central CA San Diego Region effective 08/15/2023 15:03 Central Standard Time (CST)</td>
</tr>
<tr>
<td>08/14/2023, 14:51</td>
<td>20231578061-83</td>
<td>Transmission Emergency</td>
<td>Issue</td>
<td>CAISO Grid TRANSMISSION EMERGENCY Notice</td>
</tr>
<tr>
<td>08/14/2023, 14:51</td>
<td>20231578061-83</td>
<td>Transmission Emergency</td>
<td>Issue</td>
<td>CAISO Grid TRANSMISSION EMERGENCY Notice</td>
</tr>
<tr>
<td>08/12/2023, 15:15</td>
<td>20231578061-83</td>
<td>Test</td>
<td>End</td>
<td>CAISO Grid TEST ENDED NOTICE - 202349995005</td>
</tr>
<tr>
<td>08/11/2023, 15:13</td>
<td>20231578061-83</td>
<td>EEA 1</td>
<td>End</td>
<td>CAISO EEA 1 - ENDED - 202330757513</td>
</tr>
<tr>
<td>08/11/2023, 14:16</td>
<td>20231578061-83</td>
<td>Test</td>
<td>Issue</td>
<td>CAISO Grid TEST NOTICE - 202349995005</td>
</tr>
<tr>
<td>08/11/2023, 14:14</td>
<td>20231578061-83</td>
<td>EEA 1</td>
<td>Issue</td>
<td>CAISO EEA 1 NOTICE - 202330757513</td>
</tr>
<tr>
<td>08/10/2023, 17:39</td>
<td>20231578061-83</td>
<td>Test</td>
<td>End</td>
<td>CAISO Grid TEST ENDED NOTICE - 202349995005</td>
</tr>
<tr>
<td>08/10/2023, 15:36</td>
<td>20231578061-83</td>
<td>EEA 1</td>
<td>End</td>
<td>CAISO EEA 1 - ENDED - 202347249319</td>
</tr>
</tbody>
</table>
Emergency Notifications Archive Section – After

Different Ways to Filter

➢ Post Date & Time
### Emergency Notifications Archive Section – After

#### Different Ways to Filter

- Post Date & Time
- ID name

---

<table>
<thead>
<tr>
<th>Event Date</th>
<th>ID</th>
<th>Event Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>06/15/2023 15:20</td>
<td>2023578611.08</td>
<td>Flex Alert</td>
<td>Flex Alert issued for 06/15/2023 13:30 to 06/15/2023 15:20.</td>
</tr>
<tr>
<td>06/15/2023 14:46</td>
<td>2023578611.77</td>
<td>Flex Alert</td>
<td>Flex Alert issued for 06/15/2023 11:46 to 06/15/2023 14:46.</td>
</tr>
<tr>
<td>06/15/2023 13:36</td>
<td>2023578611.83</td>
<td>Flex Alert</td>
<td>Flex Alert issued for 06/15/2023 12:36 to 06/15/2023 13:36.</td>
</tr>
</tbody>
</table>

*Note: More notifications listed*
Emergency Notifications Archive Section – After

Different Ways to Filter

- Post Date & Time
- ID name
- Event Type
  - Flex Alert, Restricted Maintenance Operations, Transmission Emergency, EEA levels
Different Ways to Filter

- **Post Date & Time**
- **ID name**
- **Event Type**
  - Flex Alert, Restricted Maintenance Operations, Transmission Emergency, EEA levels
- **Message Type**
  - Issue, Update, End
**Different Ways to Filter**

- **Post Date & Time**
- **ID name**
- **Event Type**
  - Flex Alert, Restricted Maintenance Operations, Transmission Emergency, EEA levels
- **Message Type**
  - Issue, Update, End
- **Description**
  - Subject line of email sent out
Here is an example of the page being filtered under the Event Type as “Transmission Emergency.”
Questions
CHANGES TO THE EMERGENCY NOTIFICATION EMAILS & SUBSCRIBING
Emergency Notification Email Changes – Before

Previously, emergency notifications were sent from EmergencyNotifications@caiso.com

The context in the email will remain the same "with some new additions"
Emergency Notification Email Changes – After

Emergency Notifications will now be sent from the email: emergencynotifications@caisocommunications.com

New section titled, “Planned Events.” Provide context to participants of upcoming events and context to what is happening next.

Link at the bottom of email to manage Emergency Notification subscription preferences.
READINESS ACTIVITIES AND WRAP UP
### Timing of Changes

<table>
<thead>
<tr>
<th>ISO Today Mobile App</th>
<th>A few weeks after the ONS Tool launch</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAISO.com (Emergency Notification &amp; Today’s Outlook)</td>
<td>With the ONS tool Launch \nweather conditions permitting</td>
</tr>
<tr>
<td>Emergency Notification Email</td>
<td>With the ONS tool Launch \nweather conditions permitting</td>
</tr>
</tbody>
</table>

Customer Readiness will be sending out communications when ISO Today App & CAISO.com changes occur.
Wrap Up

We covered a high-level review of changes to how participants receive ISO Emergency Notifications through:

- ISO Today Mobile App
- CAISO.com (Emergency Notification & Today’s Outlook)
- Emergency Notification Email
What Questions Do You Have?

- Keep yourself muted to minimize background noise until you are ready to speak
- Unmute to ask verbal questions or write questions in the chat pod
- Raise your hand using WebEx interactivity tools to be put in verbal queue
Thank you for your participation!

For clarification on anything presented in this training, send an email to: CustomerReadiness@caiso.com

For any other questions or stakeholder specific questions or concerns, please submit a ticket.

www.caiso.com