

# Highest Emergency Rating (HER)



Today's Trainer

**Cynthia Hinman**  
**Customer Readiness**  
**Trainer Lead**

# Housekeeping



## REMAIN MUTED

Keep yourself muted to  
minimize background noise



## ASKING QUESTIONS

Unmute to ask verbal  
questions or write  
in the chat pod



## RAISING HAND

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.

# Housekeeping



## TRAINING MATERIALS

This presentation and recording will be posted on the ISO website in the Training Center. The recording is for informational and convenience purposes only. Any related transcriptions should not be reprinted without the ISO's permission.

# Our Meeting Agenda

---

## Today we will cover...

- Scope of this project
- Changes to webOMS
- Market Simulation Activities

## Which entities are impacted?

- Transmission Owners (TOs) that have read-write access to webOMS
- Transmission Operators (TOPs) that have read-write access to webOMS

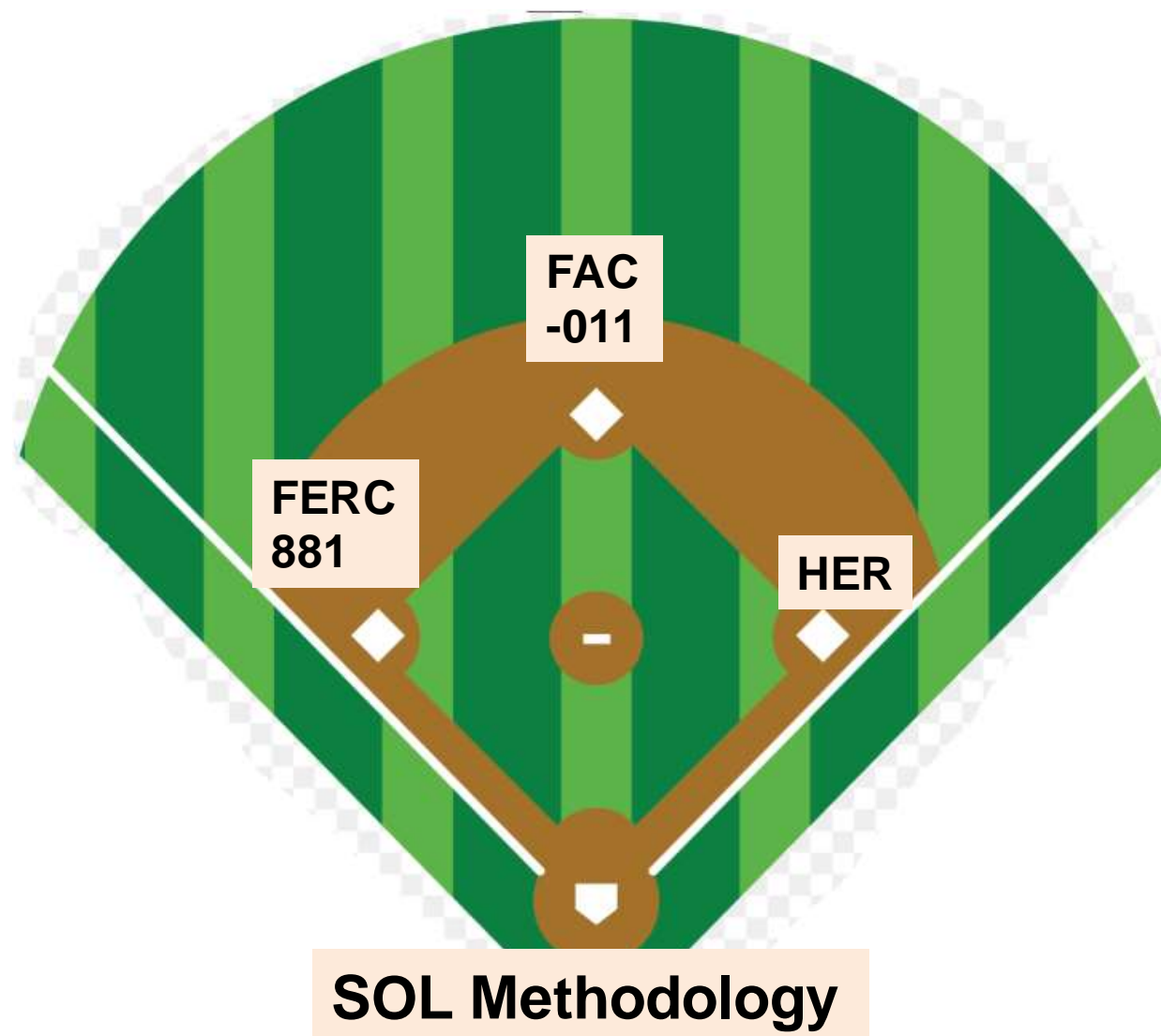
# Scope of the HER project

The background of the slide features a stylized data visualization. It includes a line chart with several data points, each labeled with a numerical value and a small upward or downward arrow indicating a trend. The values are: 6.8524, 2.9514, 7.3571, 5.8537, 8.6739, 3.1958, 0.1738, 7.5739, and 4.7452. Below the line chart is a bar chart with approximately 15 vertical bars of varying heights. The entire graphic is set against a dark blue background with a subtle grid pattern.

## Section Focus

- Compare FERC 881, FAC-011 and HER
- Goal of HER

# Who's on First



The goal of the Highest Emergency Rating (HER) project is to update functionality to streamline the reporting process.

**Issue:**

- No fields for Emergency Rating Duration, HER and HER Duration in WebOMS
  - This information must be manually entered/updated in EMNA

**Solution:**

- Add fields in WebOMS for these items
- Link these fields in WebOMS to EMNA and EMS



# What is meant by the highest emergency rating?

Line X-Y Rating	Rating Value	Rating Duration
Normal	100	Continuous
Emergency	120	240 min (4 hour)
HER	140	30 min

- In this scenario the flow must be reduced below 100 MW within 4 hours.
- If the flow is 130 MW, the mitigation time is 30 minutes (flow must be reduced below 100 MW within 30 minutes).
- If the flow exceeds 140 MW, it must be mitigated below 100 MW immediately.\*

\* unless the TOP provides a less stringent Facility Ratings methodology, which allows additional mitigation time once flows have been reduced below 140 MW.

## What Questions Do You Have?



Unmute yourself

or



Raise your hand

# Review Application Specific Details

---



# New fields added to webOMS (webOMS)

OMS

Equipment Picker

Notes

RIMS Data

Warnings

Groups

Version History

Equipment

	Station	Name	Voltage	Type	Switch Modeling Complete	Use Facility Model	ID
--	---------	------	---------	------	--------------------------	--------------------	----

Use Facility Model

Switches

	Station	Name	Voltage	Type	Status	Start Date/Time	End Date/Time	ID	Is Trumped
--	---------	------	---------	------	--------	-----------------	---------------	----	------------

Equipment Rating Changes

	Station	Name	Voltage	Normal Rating (MVA)	Seasonal Normal Rating	Emergency Rating (MVA)	Emergency Rating Duration (min)	Seasonal Emergency Rating	Highest Emergency Rating	Highest Emergency Rating Duration (min)	Start Date/Time
--	---------	------	---------	---------------------	------------------------	------------------------	---------------------------------	---------------------------	--------------------------	---	-----------------

An integer, set in minutes

A numeric input

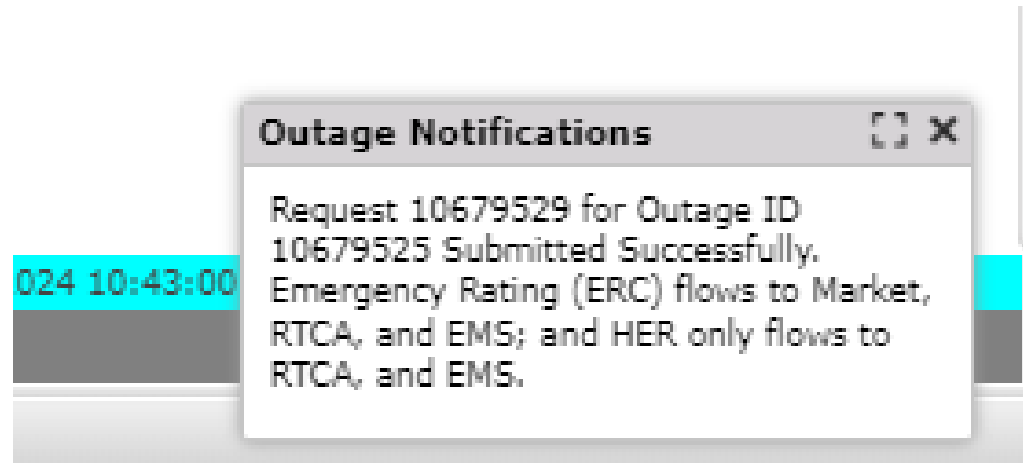
An integer, set in minutes

Users will have capability to adjust the values through the UI and API

# WebOMS Equipment Rating Change Validation Rules

- Normal Rating Limit must be defined (cannot be left blank)
- Emergency Rating Limit and Duration must be defined (cannot be left blank)
- Emergency Rating Limit cannot be less than its associated Normal Rating Limit
- If HER Limit and Duration are not defined, the system will auto-fill the HER Limit and Duration values to match their associated Emergency Rating Limit and Duration Values
- HER Limit cannot be less than the associated Emergency Rating Limit
- HER Duration cannot be greater than its associated Emergency Rating Duration

- When creating or modifying an Equipment Derate card, there is a popup in the bottom right of the screen to remind the user of where the data flows.
  - Emergency Rating flows to Market, RTCA, and EMS
  - HER only flows to RTCA and EMS



# Highest Emergency Rating (webOMS) API

OMS

- There will be XSD updates on the following services :
  - SubmitTransmissionOutage\_v3-Regular and DocAttach
  - SubmitTransmissionOutageChangeRequest\_v3-Regular and DocAttach
  - RetrieveTransmissionOutage\_v3 - Regular and DocAttach
  - RetrieveTransmissionOutageChangeRequest\_v3 - Regular and DocAttach.

# What Questions Do You Have?



Unmute yourself

or



Raise your hand



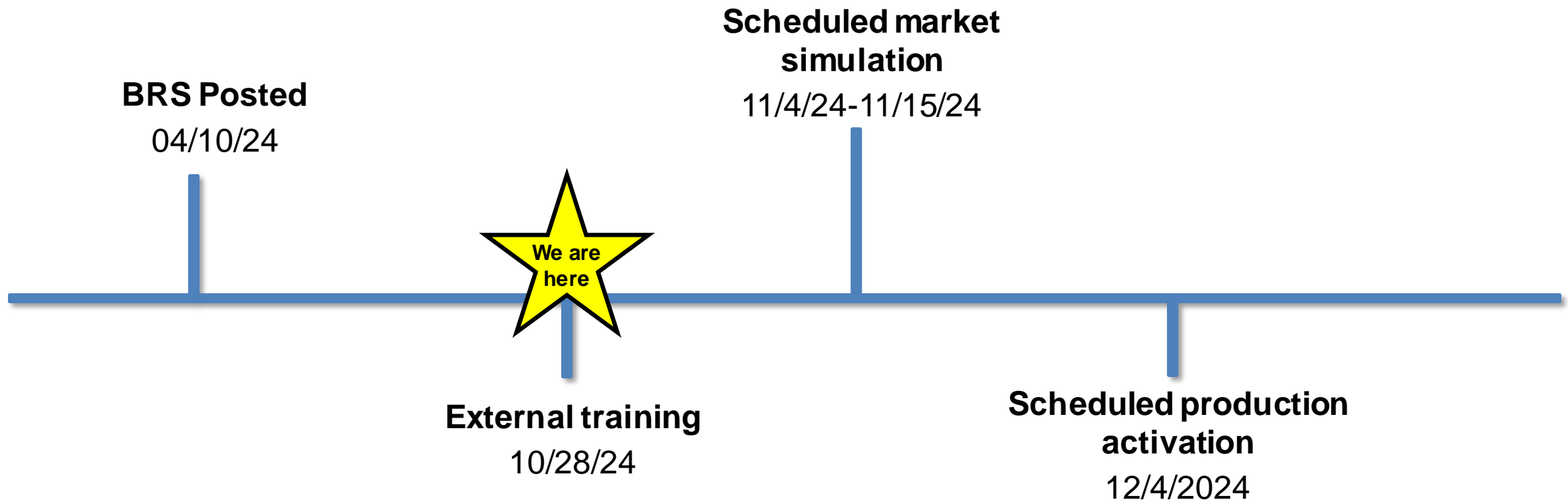
# What do I need to do?



## Section Focus

- Schedule Review changes
- Participate in Market Simulation

# Implementation timeline



## Suggested to do list for TO and TOPs:

- For market simulation:
  - Sign up to participate as soon as possible
    - Test new fields in webOMS
    - Adjust Emergency Rating Duration, HER, and HER Duration
  - Submit questions and concerns via CIDI
  - Participate in market simulation forum calls
- After go-live:
  - Check the new fields in webOMS to ensure they are correct
  - Update these data elements as necessary, through webOMS

# Functional Environment Options for CIDI Cases

CONTACT CUSTOMER SUPPORT  
TELL US HOW WE CAN HELP

\*SCID  
[Dropdown]

\*Functional Environment  
[Dropdown menu open with options: --None--, --None--, Production, Market Simulation, Release, RC Integration, RC Shadow Operations, Parallel Operations. 'Release' is highlighted.]

1 Review for Price Correction [Radio]

1 Manual Reference Level Change Request [Radio]

\*Subject  
[Text Field]

- Inquiries are not directly related to Market Simulation issues & when there is no environment impact
  - Ex. Business Requirements Specifications (BRS) comments, implementation questions, feedback, etc.
- Contact: [release@caiso.com](mailto:release@caiso.com)

CONTACT CUSTOMER SUPPORT  
TELL US HOW WE CAN HELP

\*SCID  
[Dropdown]

\*Functional Environment  
[Dropdown menu open with options: --None--, --None--, Production, Market Simulation, Release, RC Integration, RC Shadow Operations, Parallel Operations. 'Market Simulation' is highlighted.]

1 Review for Price Correction [Radio]

1 Manual Reference Level Change Request [Radio]

\*Subject  
[Text Field]

- Inquires that are related to the MAP-Stage Environments (non-production)
  - Ex. Connectivity, unanticipated simulation results, etc.
- Contact: [MarketSim@caiso.com](mailto:MarketSim@caiso.com)

# What Questions Do You Have?



Unmute yourself

or



Raise your hand

# Thank you for your participation!

---



For clarification on anything presented in this training, send an email to:  
[CustomerReadiness@caiso.com](mailto:CustomerReadiness@caiso.com)

For other questions or stakeholder specific questions or concerns use one of these methods:

- Submit a [CIDI ticket](#)
- Contact your Scheduling Coordinator
- Use the “[Contact us](#)” page on caiso.com to submit questions



# Reference Links

System Operating Limits Methodology for the Operations Horizon:

<https://www.caiso.com/documents/rc0610.pdf>

Business Requirements Specification (BRS):

<https://www.caiso.com/documents/business-requirements-specification-highest-emergency-rating.pdf>



## Tell us how we did

Takes 3-5 minutes to complete

Helps us improve future training

Link: <https://www.surveymonkey.com/r/caisocoursesurvey>