FERC Order 881: Managing Transmission Line Ratings – Phase 2

Quarterly Initiative Updates

January 18, 2024

Raja Thappetaobula, Director, Operations Engineering Services

Housekeeping reminders

- This call is being recorded for informational and convenience purposes only. Any related transcriptions should not be reprinted without ISO's permission.

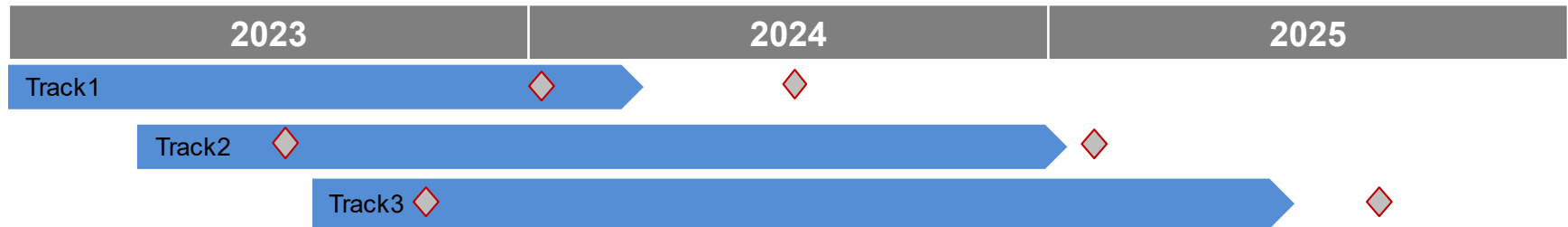- If you need technical assistance during the meeting, please send a chat to the event producer.

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Instructions for raising your hand to ask a question

- If you are connected to audio through your computer or used the "call me" option, select the raise hand icon 🖐 located on the top right above the chat window. **Note**: #2 only works if you dialed into the meeting.

  - Please remember to state your name and affiliation before making your comment.

- You may also send your question via chat to all panelists.

Agenda

Topic	Presenter
Welcome & introduction	Nicosia, Isabella
Project Status and OATI webLINER	Raja Thappetaobula
2024 Goals	Raja Thappetaobula

FERC 881 Project Timelines by Tracks

2023	2024	2025

- **Track 1 – Real Time Reliability Applications**
  - Minor delays in application deliver timeline with FAC-11 additions to the project
  - Estimated - Target Capability to be ready by Q2 2024

- **Track 2 – Operational/EMS Model Data and Applications**
  - July 2023 - Complete Business Requirements
  - OATI WeblineR product will be utilized for receiving Look ahead ratings.
  - Estimated - Target Capability to be ready in 2024

- **Track 3 – Market Application and Look Ahead Applications**
  - Requirements phase will be started in Jan 2024.
  - Based on requirements gathering and vendor/internal resources constraints potential for delay in some aspects of implementation.
  - Estimated - Target Capability to be ready in Q2 2025.

Track 1: Real Time ratings through ICCP work progress.

- ISO uploaded template filled with TOP/BAA model data from DB125 model delivered on production November 14th 2023.

- Please review the ***FERC881_Dynamic_MVA_ICCP_Template_TOPName_DB125***, for your entity found on ***RC Portal > Working Groups > Data Exchange*** > FERC 881 Templates by Entity. Example below:

  FERC881_Dynamic_MVA_ICCP_Template_AEPC_DB125.xlsx
  FERC881_Dynamic_MVA_ICCP_Template_APS_DB125.xlsx
  FERC881_Dynamic_MVA_ICCP_Template_AVA_DB125.xlsx
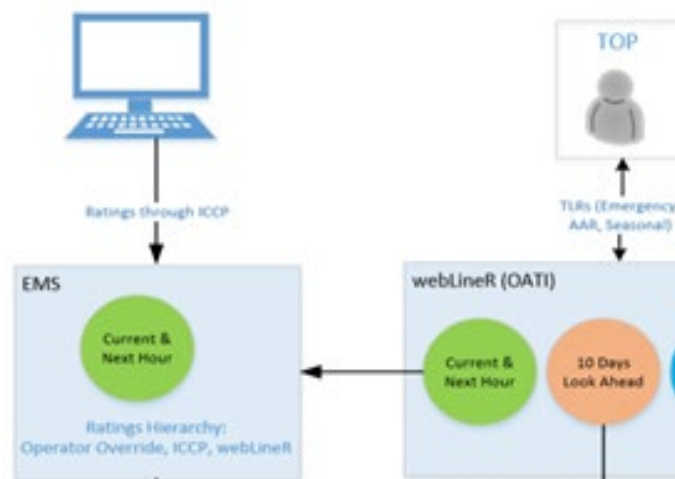 FERC881_Dynamic_MVA_ICCP_Template_CEN_DB125.xlsx
  FERC881_Dynamic_MVA_ICCP_Template_CHPD_DB125.xlsx

- So far multiple BAA/IOU had one on one meetings with ISO SME and resolved most of the clarifying questions regarding how to fill out the template.

- Few entities are close to filling out ICCP ID based on their model by Q2 2024

- ISO will update template twice this year

- Last update in 2024 will be from DB-132(M12). Model will go live week of 12/16/2024

- ISO will start to update template after each model build next year in preparation of go live on July 12, 2025. Data submission process will align with normal model update process via RIMS.

- ISO EMS software upgrade will be done by Q2 2024

Priority scheme in EMS to process AAR

- ISO EMS will implement following priority scheme to derive active ratings for downstream reliability applications to use in real time.

  Priority 1: Operator manual update incase telemetered ratings are not accurate

  Priority 2: Real time telemetry via ICCP data link as long as telemetry is valid

  Priority 3: Current hour and next hour ratings from webLineR application(Q4)

  Priority 4: Static seasonal ratings used pre FERC 881.

- EMS will use AAR from webLineR for current hour if entity does not provide telemetered AAR via ICCP.

- Rolling 10 days forecasted ratings from webLineR will be used by look ahead applications.

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Discussion items on webLineR look ahead rating application

- This tool will be utilized to interface with all RCWEST TOP to acquire 240 hours of look ahead AAR ratings.

- Schema for submission of look ahead ratings will be shared with TOP as soon as we finalize with OATI.

- The tool will acquire all network modeling data from WebOMS. No new mapping for TOP is expected.

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Discussion items on webLineR look ahead rating application

- Basic validation of incoming ratings will be performed and errors will be notified to TOP.

- Availability of API for TOP's to query their submitted ratings.

- Tool will provide a method for allowing a TOP to denote exceptions for AAR.

- Tool will provide a storage for TOP Transmission line rating methodologies.

2024 goals :

- Work with WECC System Review Subcommittee (SRS) and collaborate on seasonal model development that reflect 4 seasons.

- Collaborate and develop a process with TOP and other RC in western interconnection on Tie line AAR rating management.

- Discuss and develop process to calculate updated TTC for inter area paths that are impacted by AAR ratings.

Questions?

- Initiative-related materials are available on the initiative webpage: https://stakeholdercenter.caiso.com/StakeholderInitiatives/FERC-order-no-881-managing-transmission-line-ratings

- Please contact Isabella Nicosia at inicosia@caiso.com or ISOStakeholderAffairs@caiso.com if you have any questions.