



FERC Order No. 881 Compliance

Incorporation of Ambient Adjusted Line Ratings

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Proposed Effective Date: TBD

- On December 16, 2021, the Federal Energy Regulatory Commission (“Commission”) issued Order No. 881, its Final Rule on Managing Transmission Line Ratings
- The Final Rule was the result of November 19, 2020 NOPR examining both Ambient Adjusted Ratings (AARs) and Dynamic Line Ratings (DLRs)
 - DLRs deferred for further investigation in AD22-5, comments for which are due in April
- Compliance filings due July 12, 2022; implementation by July 12, 2025
 - Requires the calculation and use of AARs, for all transmission lines (minus certain exceptions), based on language in new *pro forma* “Attachment M” to the OATT
 - Requires ISO to be able to accept electronic updates to line ratings at least hourly
 - Includes transparency requirements
- At this meeting, ISO-NE will present Tariff revisions intended to comply with the Order

ORDER NO. 881 REQUIREMENTS

Line Rating Methodologies and Uses



Order No. 881 Requirements

- Transmission Line Ratings
 - Maximum transfer capability of a transmission line
 - Calculated by the Transmission Owner (TO) and provided to ISO for use
 - Includes Normal, Emergency, and Seasonal Ratings
- AARs
 - Referred to as “Normal” rating
 - Reflects continuous operation
 - Hourly (or more granular) AARs must be used by ISO in Day-Ahead and Real-Time
 - Exceptions allowed where the TO determines that the rating of a transmission line is not affected by ambient air temperatures
 - Exceptions must be posted by the TOs to OASIS
 - Required to be based on the underlying AARs



Order No. 881 Requirements, Contd.

- Emergency Ratings
 - Must be a uniquely determined rating (though not necessarily higher than the Normal rating) reflecting operation for a specified, finite period, rather than continuous operation
 - Must incorporate an adjustment for ambient air temperature and for daytime/nighttime solar heating consistent with AAR
- Seasonal Ratings
 - Must be calculated for no fewer than four seasons
 - Required to be based on the underlying AARs



Order No. 881 Requirements, Contd.

- ISO is required to allow TOs electronically update Transmission Line Ratings at least hourly, with such data submitted by transmission owners directly into the RTO's/ISO's EMS through SCADA or similar systems
- Transparency
 - Transmission Providers (TPs) are required to:
 - Share Transmission Line Ratings with other TPs, upon request
 - Maintain a ratings database on OASIS accessible by all parties with OASIS access
 - Share Transmission Line Ratings with the respective Market Monitor in RTO/ISO regions



COMPLIANCE AND IMPLEMENTATION



Compliance Proposal

- ISO Compliance Proposal
 - Inclusion of new Attachment Q, modified for New England Markets, posted in connection with this presentation with redlines from the *pro forma*
 - Application of AARs to Day-Ahead and Real-Time Markets
 - Division of responsibilities for 1) calculating ratings, 2) providing ratings to the ISO, 3) posting of ratings to OASIS, 4) explaining use of AARs vs. Seasonal Ratings
 - Details on rating methodologies and communication pathways to be contained in Operating Documents, i.e. Planning and Operating Procedures
 - Schedules 18, 20A, 21 for Cross Sound, Schedule 20A Providers and Local Service Providers are separately working to determine the scope of their respective compliance obligations with the target being a joint compliance filing between all New England parties to the extent practical



Next Steps

- ISO asks that feedback on the draft Attachment Q be provided no later than May 4, 2022 in order to allow for sufficient time to incorporate revisions prior to the May Transmission Committee meeting
- Provide any additional feedback to gjesmer@iso-ne.com
- Parties involved with the joint filing will continue to coordinate offline on the package to be reviewed and acted upon at the next TC
- Parties will coordinate technicalities of the joint filing following the May TC meeting



Stakeholder Schedule

Stakeholder Committee and Date	Scheduled Project Milestone
Transmission Committee March 23, 2022	ISO summarized requirements and responsibilities, and delivers high level plans for compliance and implementation
Transmission Committee April 14, 2022	Additional review of Order requirements and responsibilities; first review of proposed ISO Tariff language
Transmission Committee May 31, 2022	Second review of proposed ISO Tariff language and vote; initial discussions regarding implementation
Participants Committee June 2, 2022	Vote

Questions

