

FERC Order 881: Ambient Adjusted Ratings

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Order No. 881 Areas of Reform



Revises
FERC regulations
and pro forma
Tariff to incorporate
new pro forma OATT
Attachment M

AREAS OF REFORM:

- 1 | Definition of Transmission Line Ratings
- 2 | Ambient-Adjusted Ratings (AAR)
- 3 | Seasonal Line Ratings
- 4 | Exceptions and Alternate Ratings
- 5 | Emergency Ratings
- 6 | Transparency Requirements
- 7 | Dynamic Line Ratings (DLR)

Compliance Filing Due July 12, 2022

Full Compliance By July 12, 2025

Ratings Approaches & Min Requirements



Centralized

Traditional temp set approach

Distributed

DLR approach for AAR

Potential
Approaches for
Consideration

Hybrid

- Centralized approach for some facilities
- Distributed approach for other facilities

Minimum Requirements

- Next 10 days hourly, minimum
- Seasonal, minimum of 4 periods
- Posted on PJM OASIS; TO methodology posted

Required End State

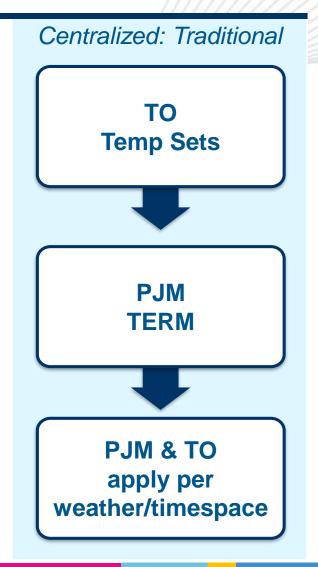
AAR Approach Options: Centralized

Centralized Temp Sets: Traditional

- PJM determines required temperature set framework.
- PJM equipment owners calculate and submit temperature set data per equipment to PJM.
- PJM sets active temperature set based on the weather conditions.
- Equipment owner queries ratings from their own temperature sets and forecasts.
- PJM and equipment owner compare ratings when evaluating trends and exceedances, and during mitigation for same.

Considerations/ Benefits

- Ensure TP obligations in Order 881 Attachment M do not conflict with TO requirements.
- Deference to DLR, where applicable.
- Familiar practice and minimal change to most facilities.
- PJM evaluation of existing temperature forecasts and alignment with members on application per zone/facility.
- Historic temp sets across the PJM footprint.



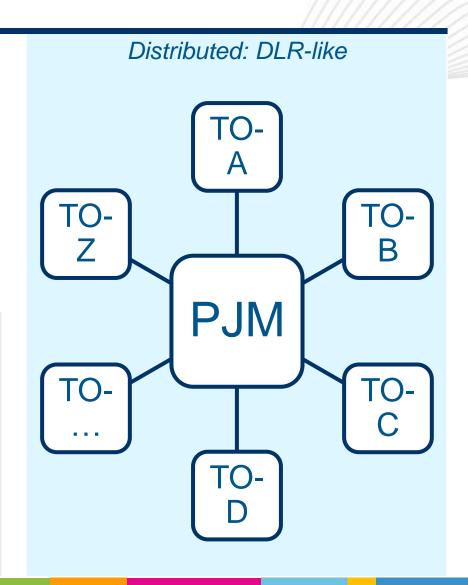
AAR Approach Options: Distributed

Distributed: DLR-like

- PJM equipment owner determines their applicable temp set range.
- PJM equipment owners calculate and submit seasonal ratings and rolling 10day hourly ratings.
- PJM uses ratings as appropriate per time horizon of end-use.
- Equipment owner uses ratings per hour where appropriate.
- Equipment owner must notify PJM if in-use rating is inaccurate.

Considerations/ Benefits

- Reduced ambiguity on rating alignment.
- Loss of ICCP strategies become more important.
- Increased volume of ICCP data exchange and more SCADA processing.
- Cut-in data submission timeline might change.
- 10-day requirement and historic temperature set ranges fall squarely upon equipment owner.



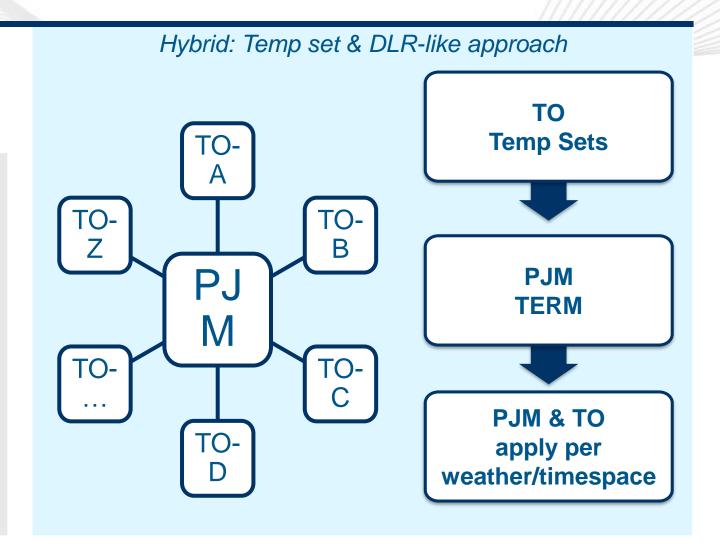
AAR Approach Options: Hybrid

Hybrid: Both Options

Mixed approach

Considerations/Benefits

- Will exist with traditional and DLR-like approach.
- Considerations/benefits of each apply.
- May allow for easier transition to DLR for a given company.
- Owner determines their approach per facility.
- Deadlines for notice of changes to approach.
- Tie line coordination issues might arise if companies use different strategies for each end.



PJM will be reaching out to our Transmission Owners to get alignment on compliance approach in regard to FERC Order 881. Potential questions below:

[Q1] Does your company seek to directly telemeter one or more real-time facility ratings to PJM? [YES/NO]

TO Comment:

For any facilities for which you will seek to directly telemeter real-time facility ratings to PJM, will your company provide rolling 10-day hourly forecasted ratings for each of these facilities to PJM? [YES/NO]

TO Comment:

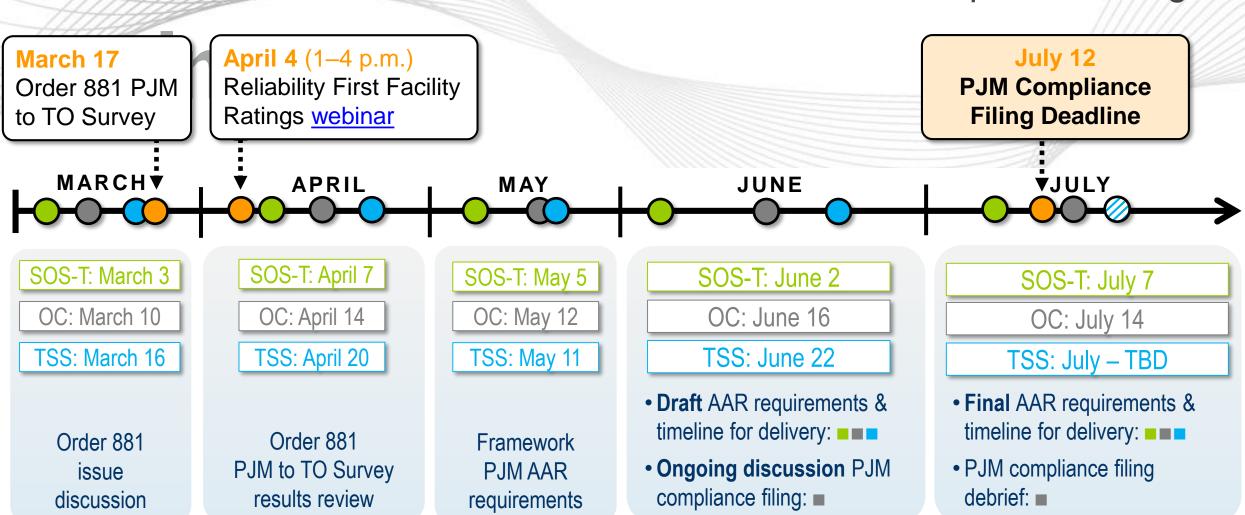
Excluding seasonal ratings, for any facilities for which you will seek to directly telemeter real-time facility ratings to PJM, will your company be requiring PJM-derived temperature set frameworks, such as those traditionally provided via TERM, for any facility? [YES/NO]

TO Comment:

For any facilities for which you will seek to directly telemeter real-time facility ratings, how will you coordinate your ratings with your neighboring TOs inside and outside of PJM?

TO Comment:

Timeline for PJM Compliance Filing



NOTE: Beyond the above, PJM will collaborate with additional stakeholder bodies such as TOPWG, RSCS, DTS and others as needed to work towards requirements and compliance objectives.

Contact



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FERC Order No. 881



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