

## PJM MOD-032 MODEL DATA REQUIREMENTS AND PROCEDURES:

### SUMMARY OF CHANGES FOR 2020 REVISION

1. Updated documentation to remove mention of responsibilities to Load-Serving Entity (LSE).
  - a. It should be noted that FERC approved removal of Load-Serving Entity (LSE) as a functional registration category on October 15<sup>th</sup>, 2015. Therefore, even though LSEs are still referred to in the standard they are no longer applicable.
2. Clarified the timeline that PJM will reach out to the Functional Entity for clarification or data revisions. For any technical concerns where the Functional Entity does not or cannot respond timely, PJM will initiate and follow the procedure in MOD-032 Requirement 3. The Functional Entity will then have 90 days to respond, from the initial PJM request for clarification or revision date, with model updates or a technical basis for maintaining the data as submitted.
3. Updated the Responsible Entities and Expectations Section (1.5) for both Generator and Transmission Owners.
  - a. Additional clarity is provided for Non-Incumbent Transmission Developer responsibilities for MOD-032.
  - b. TOs that meet the following criteria are required to submit all data contained in MOD-032-1 Attachment 1:
    - i. NERC registered Transmission Owners
    - ii. Signatory of the PJM Consolidated Transmission Owners Agreement (CTOA)
4. In Section 3, the Annual Schedules for Steady State, Dynamics, and Short Circuit Requests were updated to reflect the current windows.
5. In Section 5, Dynamics Data Requirements and Guidelines, Dynamics data is to be submitted via Gen Model in Siemens PTI PSS/E Dynamics Model Raw Data File (.dyr) format.
  - a. Any changes year to year would require an update uploaded via Gen Model. If a change from previously provided .dyr data is submitted, additional justification must be provided in the form of Excel, Word or Portable Document Format (pdf) documents.
6. Appendix 2: Generator Owner Data Requirements were updated to accurately reflect the latest fields specified in Gen Model as of 5/1/2020.
  - a. The Generator Owner will need to review and provide Summer and Winter output values that occur under the following seasonal assumptions from the table below. Please note that not all these assumptions may apply to your particular unit. For example, Wind Farms would not need to consider Cooling Water temperature when determining their generator output.

Table 1 - Seasonal Assumptions for Gen Model			
Types	Summer	Winter	Notes
Time Period	6/1 to 9/1	12/1 to 3/1	
Time of Day	16:00	07:00 or 19:00	Select the time of day when the generator output would be highest.
Cooling Water (Degrees F)	80	35	If applicable
Ambient Relative Humidity (%)	45	40	If applicable
Ambient Air Temp (Degrees F)	92	20	

**References:**

- Planning Center Gen Model tool: <https://www.pjm.com/markets-and-operations/etools/planning-center.aspx>
- Gen Model User Guide: <http://www.pjm.com/~media/etools/planning-center/gen-model-user-guide.ashx>
- PJM's MOD-032 web page: <https://www.pjm.com/planning/services-requests/planning-modeling-submission-mod-032.aspx>
- PJM's MOD-032 Requirements and Procedures document: <https://www.pjm.com/~media/planning/rtep-dev/powerflow-cases/20150630-mod-032-ss-dynamics-sc-data-requirements-reporting-procedures-v1.ashx?la=en>