Manual 21- Revision 13
Rules and Procedures for Determination of Generating Capability Changes

Jerry Bell
Resource Adequacy Department
Planning Committee
January 10th, 2019
• New Capacity Interconnection Rights section (Section 1.1)
  – Explains how CIRs are attained, retained and lost
  – Calculation examples

• Section 1.2, Installed Capacity
  – Emphasizes ICAP must be determined based on summer conditions
  – Defines summer conditions (also known as rated conditions)
    • Generator site conditions coincident with the last 15 years’ PJM summer peaks
  – Adds additional details for determining Installed Capacity (Rated ICAP)
Section 1.3, Testing (new section)

- Summer Test Period remains June 1\textsuperscript{st} through August 31\textsuperscript{st}
- Delineates what units must correct for generator site conditions
- Delineates for what generator site conditions a units test must be corrected
- Units subject to generator site condition corrections must test when:
  - Actual Dry Bulb Air Temperature is within 15-20°F* of Rated Dry Bulb Temperature
  - Actual Wet Bulb Air Temperature is within 8-10°F* of Rated Wet Bulb Temperature
  - Actual Cooling Body Temperature is within 5°F of Rated Cooling Body Temperature
  - If these conditions cannot be met, testing from July 7th through August 31\textsuperscript{st} can occur without adherence to these parameters as long as the testing start time is 10 am or later and the testing end time is 10 pm or earlier

* Note these values have not been finalized since we are still discussing with generator owners
• Section 2 - Net Capability, reconfigure, and split into Conventional Generators, Capacity Storage Units and Intermittent Units
  – Capacity Storage and Intermittent Units are defined in Manual 18
  – Does not include wind or solar units
M-21 Changes Summary

• Section 3 (New Section) rules to commence for DY 22/23
  – Simultaneous multiple unit testing for up to ten plants per summer per PJM directive
    • Notifications sent via email before the test period and a minimum 14 day window specified
    • Specific wording to allow extension of the time period for testing if PJM cannot accommodate the testing schedule
  – All Capacity Storage and Intermittent Resources (other than wind and solar) must test all units at a plant simultaneously
Tentative M-21 Changes Timeline

- PC First Read – 2/7/2019
- MRC First Read – 2/21/2019
- Request for PC Endorsement – 3/7/2019
- Request for MRC Endorsement – 3/21/2019
- Manual 21, Revision 13, effective date – 4/1/2019
Contact Information

Jerry Bell
Jerry.Bell@pjm.com
610-666-4526