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

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Planning Committee
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M-21 Changes Summary

• 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)
M-21 Changes Summary

• Section 1.3, Testing (new section)
  – Summer Test Period remains June 1st through August 31st
  – Delineates what units must correct for generator site conditions
  – Delineates for what generator site conditions a unit's test must be corrected
  – Units subject to generator site condition corrections must test when:
    • Actual Dry Bulb Air Temperature is within 15°F of Rated Dry Bulb Temperature
    • Actual Wet Bulb Air Temperature is within 8°F of Rated Wet Bulb Temperature
    • Actual Cooling Body Temperature is within 5°F of Rated Cooling Body Temperature
• Section 1.3, Testing (continued)
  – 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 below to allow extension of the time period for testing if PJM cannot accommodate the testing schedule:
      – Coordination with PJM Dispatch will be needed for testing units whether they are scheduled day ahead or real time and it is important to keep PJM Dispatch in the communications loop at all times. It is also incumbent upon the generation owner to ensure its preparation for generator/plant testing has been executed properly. There may be times that testing cannot be accommodated by PJM Dispatch because of constraints or other system issues. If PJM Dispatch cannot accommodate the testing, extension of the delineated testing period in the PJM required simultaneous testing request can be granted only for those capacity verification tests specifically delineated under section 1.3.6 of Manual 21. If an extension is needed because PJM Dispatch could not accommodate simultaneous testing under section 1.3.6 of Manual 21, please email gadssupport@pjm.com and request an extension of the delineated time period.
• Section 2, Net Capability, reconfigure, and split into Conventional Generators, Capacity Storage Units and Intermittent Units
  – Simultaneous testing at each plant for Capacity Storage and Intermittent Units
  – Capacity Storage and Intermittent Units are defined in Manual 18
  – Does not include wind or solar units
Appendix B, Wind and Solar units, basing the capacity factor calculations on the median rather than the average starting DY22/23

- All wind and solar units will begin using median capacity factors in DY22/23
- For only wind and solar units that participated in the RPM capacity markets in any summer periods prior to DY22/23, CIR evaluation will be suspended from DY22/23 and DY23/24 until the 4th quarter 2024
- Notifications of lost CIRs will be communicated to generator owners prior to January 1, 2025
- These units CIRs will then be adjusted effective June 1, 2025 using the median capacity factor from the DY22/23, DY23/24 and DY24/25 summer peak hours
- Reuse or sale of any lost CIRs (per section 230.4 of the tariff) due to this change must be communicated to PJM prior to January 1, 2025 and these CIRs must be reused in a new queue project
M-21 Changes Timeline

- PC First Read - 8/9/2018
- MRC First Read - 8/23/2018
- Request for PC Endorsement - 9/13/2018
- Request for MRC Endorsement – 9/27/2018
- Manual 21, Revision 13, effective date – 10/1/2018
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