



# Manual 21- Revision 13

## Rules and Procedures for Determination of Generating Capability Changes

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- 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<sup>st</sup> through August 31<sup>st</sup>
  - 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 10°F of Rated Dry Bulb Temperature
    - Actual Wet Bulb Air Temperature is within 5°F of Rated Wet Bulb Temperature
    - Actual Cooling Body Temperature is within 5°F of Rated Cooling Body Temperature

- Section 1.3, Testing (continued)
  - The correction parameters above are dependent on generating unit equipment
    - If a unit has only once through cooling (circulating water from ponds, rivers, lakes), tests must be corrected for cooling body temperature
    - If a unit has only evaporative cooling, tests must be corrected for wet bulb air temperature
    - If a unit has no inlet cooling and no dry cooling, tests need only be corrected for dry bulb temperature
    - If a unit has a combination of equipment, they must test within multiple parameter limits
  - 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

- 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 4<sup>th</sup> 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.

- 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