

## Manual 14-D Generator Operational Requirements Revision 63 – Periodic Review

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# Section 7.5.2: Generation Resource Preparation and Cold Weather Checklist

 Added requirement for all generation resources to prepare resources for cold weather operation

### Attachment N: Cold Weather Checklist

- Added additional winter preparation guidance for combustion turbine intake preparation based on NERC Lessons Learned
- Add additional guidance applicable to inverter-based resources
- Added other best practices based on industry events



#### M-14D Clarifying Changes

- Definitions and Applicability
  - Replaced definitions with reference to the PJM Governing Agreements
- Section 2.1: Generation Owners' Responsibilities
  - Added reference to Manual 14-C Section 2.1 for definition of "commercial operation"
- Section 3.2.4: Control Center Staffing Requirements
  - Removed language "As a general guideline" from first sentence of paragraph
- Section 5.1.3: PJM Reserve Markets
  - Modified description of PJM Reserve Market to align with Tariff defined terms.



M-14D Clarifying Changes

- Section 7.3: Critical Information and Reporting Requirements
  - Clarified need for verbal notification to PJM dispatch
  - Added VoltageSchedules@pjm.com for questions regarding voltage schedules
- Attachment D: PJM Generating Unit Reactive Capability Curve Specification and Reporting Procedures
  - Clarified that the 95 degree temperature applies to thermal resources
  - Added <u>ReactiveTesting@pjm.com</u> for questions regarding reactive capability



#### M-14D Clarifying Changes

- Attachment E: PJM Generator and Synchronous Condenser Reactive Capability Testing
  - Added <u>ReactiveTesting@pjm.com</u> for questions regarding reactive testing
  - Reformatted table of reactive testing requirements for readability
- Appendix A: Behind the Meter Generation Business Rules
  - Clarified reference wording for metering requirements
  - Removed statement requiring BTMG generation to modeled in the PJM
    EMS in order for telemetry and metering to be communicated to PJM



M-14D Administrative Changes

- Updates throughout related to changes to Interconnection Process
  - Added references to new Manual 14-H: New Service Requests Cycle Process
  - Replaced Interconnection Service Agreement with Generation Interconnection Agreement where appropriate
  - Replaced Interconnection Customer with Project Developer
  - Updated terminology referencing New Service Request
  - Appendix "A" Replaced references to M-14A and M-14G with M-14H



- Section 2.2.2: Generation Owner or Project Developer Name and/or Contact Information Changes
  - Updated PJM Contact Information
- Section 4.3.4: Data Exchange and Management Requirements
  - Removed reference to Phasor Data Quality Task Force which has been sunset.
  - Added reference to OATT for guidance
- Section 5.4.2: The Day-Ahead Energy Market
  - Updated title of section by adding the word "Energy"
  - Added "Energy" between "Day-ahead" and "Market" wherever "Day-Ahead Market appears in this section.



#### Section 5.7.2.8: Telemetry and Telecommunications

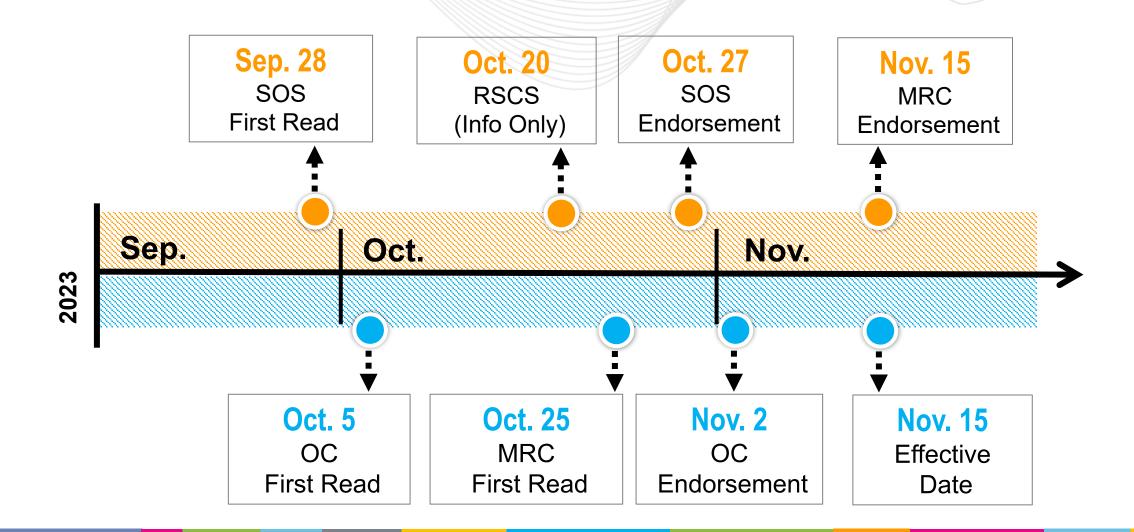
- Replaced the term *Voice* Communications with *Interpersonal* Communications in alignment with NERC standard COM-001 and PJM Manual 1
- Section 7.3.6: Periodic Task Document Periodic Review
  - <u>https://www.pjm.com/~/media/documents/manuals/manual-</u> <u>links/m14d/go-periodic-tasks.ashx</u>
  - Minor updates as part of periodic review
- Section 13.2: Other Requirements
  - Removed reference to Section 4.1.7



#### M-14D Administrative Changes

- Attachment A: New Generator Checklist
  - Replaced references to eRPM with Capacity Exchange
  - Removed outdated reference to Manual 3A, Appendix D

#### Manual 14-D, Rev 63 Review / Approval Timeline



**J**pim





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