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# Manual 14-D

## Generator Operational Requirements

### Revision 58

Vince Stefanowicz  
Sr. Lead Engineer, Generation  
System Operations Subcommittee  
October 4, 2021

- **Section 2.3 Generator Market Remodel**
  - Added new section under the Responsibilities of Generation Owners section to detail the generator market remodel process
- **Section 2.4 eDART Modeling**
  - Added new section under the Responsibilities of Generation Owners section to describe eDART modeling requirements previously covered in section 5.3.4 eDART

- **Section 7.3.6 Generation Owner Periodic Tasks and Data Submittals**
  - Added new section and companion document with guidelines to assist Generation Owners tracking periodic tasks, testing and data submittals
- **Section 6.3.4 Other Requirements**
  - Added requirements for Generating Facilities to provide cold weather operating data prior to entering

- **Section 1.2 Generator Commercial Naming Convention**
  - Clarified and provided additional guidance on acceptable Generating Facility naming
- **Section 7.3.1 Planned Outage**
  - Clarified that eDART tool is used for submitting Planned Outages
- **Section 7.3.2 Maintenance Outage**
  - Clarified applicability to all generation resources

- **Section 7.3.5 Fuel and Emissions Reporting**
  - Renamed to Fuel, Emissions and Operational Data Reporting
  - Clarified requirements and necessity for responding to PJM data requests
- **Section 9.1 Generator Deactivation Process** – changes to multiple sections
  - Section 9.1.1 Generator Deactivation Request
    - Renamed to Generator Deactivation Notice
    - Updated Black Start resource termination requirements to reflect current Tariff requirements
    - Updated language to be consistent with current business practice

- **Section 9.1 Generator Deactivation Process** – changes to multiple sections
  - Section 9.1.2 Initial Analysis
    - Renamed to Deactivation Analysis
    - Updated language to be consistent with current business practice
  - Section 9.1.3 Analysis Results
    - Updated language to be consistent with current business practice and to reflect current Tariff requirements
    - Updated Black Start resource termination revenue impacts to reflect current Tariff requirements

- **Section 8 Wind Farm Requirements** – changes to multiple sections
  - Section 8.2.1 Data Requirements for Wind Forecast Set Up
    - Clarified language, including title of section, to indicate that data is required for forecasting when there is a change to a wind farm in addition to when a wind farm first comes online
  - Section 8.2.3 Real Time Meteorological Tower (or mutually agreed upon alternative source)
    - Modified format of temperature unit in table to be consistent with other parameters
  - Section 8.2.6 Wind Power Forecast
    - Modified names and descriptions of types of forecasts to reflect the manner in which PJM currently uses forecast products

- **Section 8 Wind Farm Requirements** – changes to multiple sections
  - Section 8.3 Forecast Data Usage
    - Aligned names and descriptions of types of forecasts with changes made in 8.2.6

- **Section 12 Solar Park Requirements** – changes to multiple sections
  - Section 12.2.1 Data Requirements for Solar Forecast Set Up
    - Clarified language, including title of section, to indicate that data is required for forecasting when there is a change to a solar park in addition to when a solar park first comes online
    - Added language stating that solar parks with multiple components (e.g. multiple panel models) need to provide data for each component
    - Modified list to separate Maximum Facility Output (MW) from AC installed capacity of each component (MW)

- **Section 12 Solar Park Requirements** – changes to multiple sections
  - Section 12.2.2 Real Time Output
    - Added clarifying language regarding criteria that require real-time output telemetry
    - Clarified requirements for hybrids and collocated resources to apply to all combinations of solar and other resources in addition to solar and storage resources

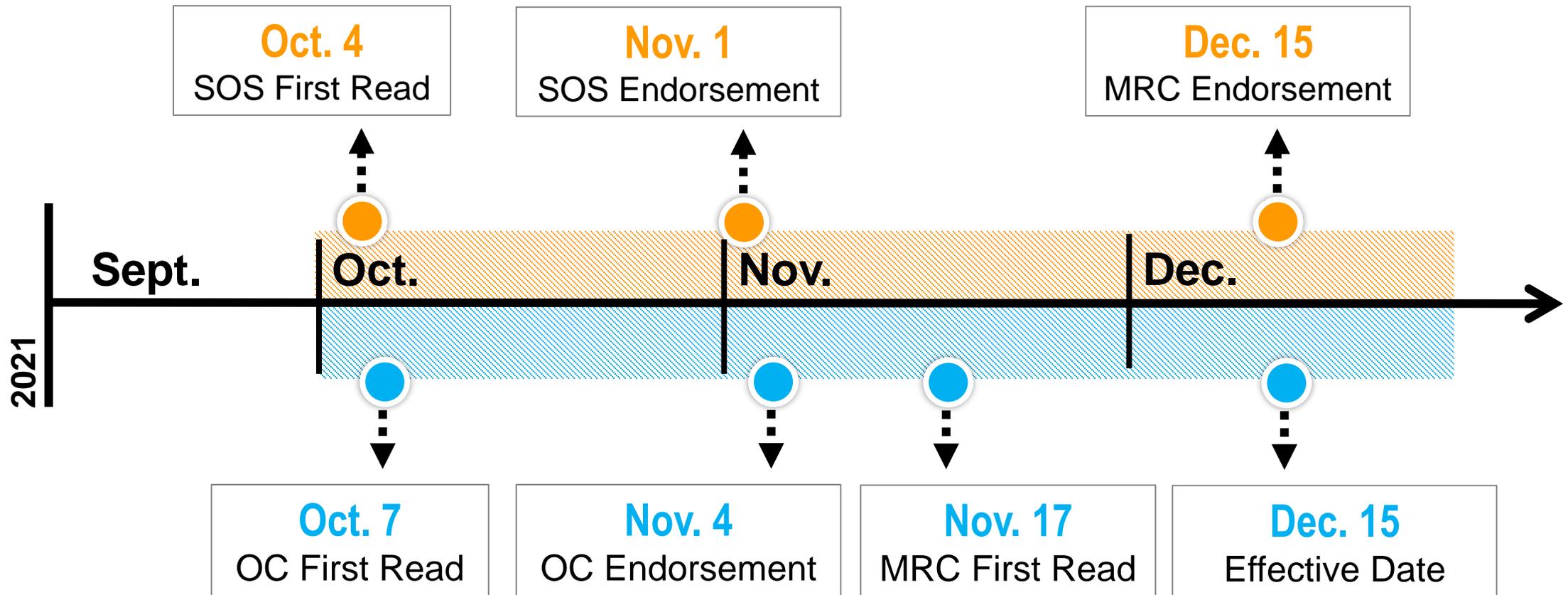
- **Section 12 Solar Park Requirements** – changes to multiple sections
  - Section 12.2.3 Real Time Meteorological Tower (or mutually agreed upon alternative source)
    - Clarified that type of real-time irradiance data required is Plane of Array (POA) irradiance
    - Modified format of temperature unit in table to be consistent with other parameters
  - Section 12.2.5 Solar Power Forecast
    - Modified names and descriptions of types of forecasts to reflect the manner in which PJM currently uses forecast products

- **Section 12 Solar Park Requirements** – changes to multiple sections
  - Section 12.3 Forecast Data Usage
    - Aligned names and descriptions of types of forecasts with changes made in 12.2.5
- **Attachment N: Cold Weather Preparation Guideline and Checklist**
  - Update existing links and added links to additional industry guidance for generation resource cold weather preparation
  - Added recommendation to create “Emergency Freeze Protection Kits” at various plant locations

- **Section 3.3 Voice Communication Requirements for Generating Entities**
  - Removed references to ring-down phone lines to generating entities
- **Section 5.3.3 PJM eRPM**
  - Renamed to PJM Capacity Exchange and removed references to eRPM
- **Section 5.4.4 Grid Accounting**
  - Replaced references to eRPM with Capacity Exchange
- **Section 5.7.2.7 eRPM account**
  - Renamed to Capacity Exchange account

- **Section 5.7.3 (Generation Transfer) Process Timeline**
  - Corrected the duration of attaining PJM membership after all required paperwork has been signed and received by PJM from 60 to 90 days.

# Manual 14-D, Rev 58 Review / Approval Timeline



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**Manual 14-D,  
 Generator Operational Requirements  
 Periodic cover to cover review**



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