Manual 14-D
Generator Operational Requirements
Revision 58

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M-14D Substantive Changes

• **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 commercial operations
• **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
M-14D Clarifying Changes

• **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
M-14D Clarifying Changes

• **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
M-14D Administrative Changes

• **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

- **Oct. 4** SOS First Read
- **Nov. 1** SOS Endorsement
- **Dec. 15** MRC Endorsement

- **Oct. 7** OC First Read
- **Nov. 4** OC Endorsement
- **Nov. 17** MRC First Read
- **Dec. 15** Effective Date