Manual 14-D
Generator Operational Requirements
Revision 51

Vince Stefanowicz
Sr. Lead Engineer, Generation
RSCS
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# Manual 14-D, Generator Operational Requirements

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<td><strong>Rev. 49</strong> Non-Retail Behind the Meter Generation</td>
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*Initially presented as Rev. 49

- **First Read**
- **Endorsement**
- **Info Only**
Distributed Energy Resource Ride-Through Guideline

Voluntary guidance developed through DER Ride-through Task Force

Added in Section 7.1.1 Generator Real-Power Control

Applies to distribution-connected generators connected to radial distribution lines of voltage less than 50 kV

Directs Distributed Energy Resources to appropriate Transmission Owner Engineering & Construction Standards

- Stand alone document posted on PJM website
7.1 Dispatching of Generation

7.1.1 Generator Real-Power Control

The Generating Facilities must deliver the electric energy generated by the facility to PJM at the point(s) of interconnection in the form of 3 phase, 60-Hertz alternating current at the nominal system voltage at the point of interconnection.

Generators and their protective systems (relaying, V/Hz, etc.) should meet the frequency guidelines listed in PJM Manual M-36, System Restoration, section 2.3, to coordinate with system preservation under-frequency load shedding. Additionally, generators and their protective systems should be capable of operation at over-frequency up to 61.7 Hz for a limited duration. Refer to NERC Reliability Standard PRC-024, Generator Frequency and Voltage Protective Relay Settings. For Generating Facilities connected to radial distribution lines of voltage less than 50 kV, refer to the ride through guidance document posted at https://www.pjm.com/planning/design-engineering/technology-standards.aspx for additional guidance.
Manual 14-D, Rev 51 Review / Approval Timeline

- **SOS** First Read 10/10/19
- **RSCS** Info Only 10/18/19
- **OC** Endorsement 11/12/19
- **MRC** Endorsement 12/5/19
- **OC** First Read 10/15/19
- **SOS** Endorsement 11/7/19
- **MRC** First Read 10/31/19
- Effective Date 12/5/19