Manual 14-D
Generator Operational Requirements
Revision 51

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Sr. Lead Engineer, Generation
System Operations Subcommittee
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# Manual 14-D, Generator Operational Requirements

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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 **Generator 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 Generating Facilities** 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 Generating Facilities** 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/to-tech-standards.aspx](https://www.pjm.com/planning/design-engineering/to-tech-standards.aspx) for additional guidance.
Manual 14-D, Rev 51 Review / Approval Timeline

SOS
First Read
10/10/19

SOS
Endorsement
11/7/19

RSCS
Info Only
10/18/19

MRC
Endorsement
12/5/19

OC
First Read
10/15/19

OC
Endorsement
11/12/19

MRC
First Read
10/31/19

Effective Date
12/5/19