



# Manual 14-D

## Generator Operational Requirements

### Revision 51

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# Manual 14-D, Generator Operational Requirements

	Committee	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Rev. 49</b> Non-Retail Behind the Meter Generation	SOS		● 7/2	★ 7/31				
	OC	● 6/11		★ 8/6				
	MRC		● 6/27			★ 9/26		
<b>Rev. 50</b> Energy Storage Resource Participation	SOS	● 6/6*			★ 9/5			
	OC	● 6/11*			★ 9/10			
	MRC					● 9/26	★ 10/31	
<b>Rev. 51</b> DER Ride - through	SOS					● 10/10	★ 11/7	
	OC					● 10/15	★ 11/12	
	RSCS					○ 10/18		
	MRC						● 10/31	★ 12/5

- *First Read*
- ★ *Endorsement*
- *Info Only*

\*Initially presented as Rev. 49

Voluntary guidance developed through DER Ride-through Task Force

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

Added in Section 7.1.1 Generator Real-Power Control

## 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> for additional guidance.

### Link to draft guideline

- <https://www.pjm.com/-/media/committees-groups/committees/oc/20191015/20191015-oc-informational-only-pjm-guideline-for-ride-through-performance-rev2.ashx>

# Manual 14-D, Rev 51 Review / Approval Timeline

