



# Manual 14-D – Generator Operations Cold Weather Reporting Requirements

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Lead Engineer, Generation  
Operating Committee  
September 8, 2022






# Manual 14-D, Generator Operational Requirements Revisions

	Committee	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Generation Deactivation Quick Fix (Rev. 59)</b> Effective Date: 9/11/2022	SOS		6/2 ●	★ 7/2					
	OC		6/9 ●	★ 7/14					
	MRC		6/27 ●	★ 7/27					
<b>Hybrid &amp; Co-located Resources (Rev. 60)</b> Effective Date: 10/1/2022	DIRS		○ 6/20						
	SOS			7/7 ●	★ 8/3				
	OC			7/14 ●	★ 8/11				
	MRC				8/24 ●	★ 9/21			
<b>Cold Weather Reporting Requirements (Rev. 61)</b> Effective Date: 10/1/2022	SOS			8/3 ●	★ 9/1				
	OC				8/11 ●	★ 9/8			
	MRC				8/24 ●	★ 9/21			
<b>Periodic Review (Rev.62)</b> Effective Date: 12/21/2022	SOS					9/29 ●	★ 10/28		
	OC					10/7 ●	★ 11/3		
	MRC						11/16 ●	★ 12/21	

● First Read  
 ★ Endorsement  
 ○ Info Only

Note: There will be an additional revision with changes related to FRBSR stakeholder process. The timing is still TBD.

Action Required	Deadline	Who May Be Affected
<p>Review and update unit operating parameters in advance of forecasted cold weather, including Generating Facility cold weather operating <u>temperature limit</u>.</p> 	<p><b>When Advisory is Issued or as needed</b></p> 	<p>Generation Owners and designated agents.</p> 

## FERC/NERC joint report on MISO cold weather operations January, 2018 recommendations

- Generator Operators determine lowest ambient temperature to which plants can reliably operate
- Generator Operators to provide these limits to their Balancing Authority (BA) and Reliability Coordinator (RC)
- Balancing Authority (BA) and Reliability Coordinator (RC) to incorporate these limits in their operating plans
- **Tie in to NERC Project 2019-06 – Cold Weather**

Report Link: [https://www.nerc.com/pa/rrm/ea/Documents/South\\_Central\\_Cold\\_Weather\\_Event\\_FERC-NERC-Report\\_20190718.pdf](https://www.nerc.com/pa/rrm/ea/Documents/South_Central_Cold_Weather_Event_FERC-NERC-Report_20190718.pdf)

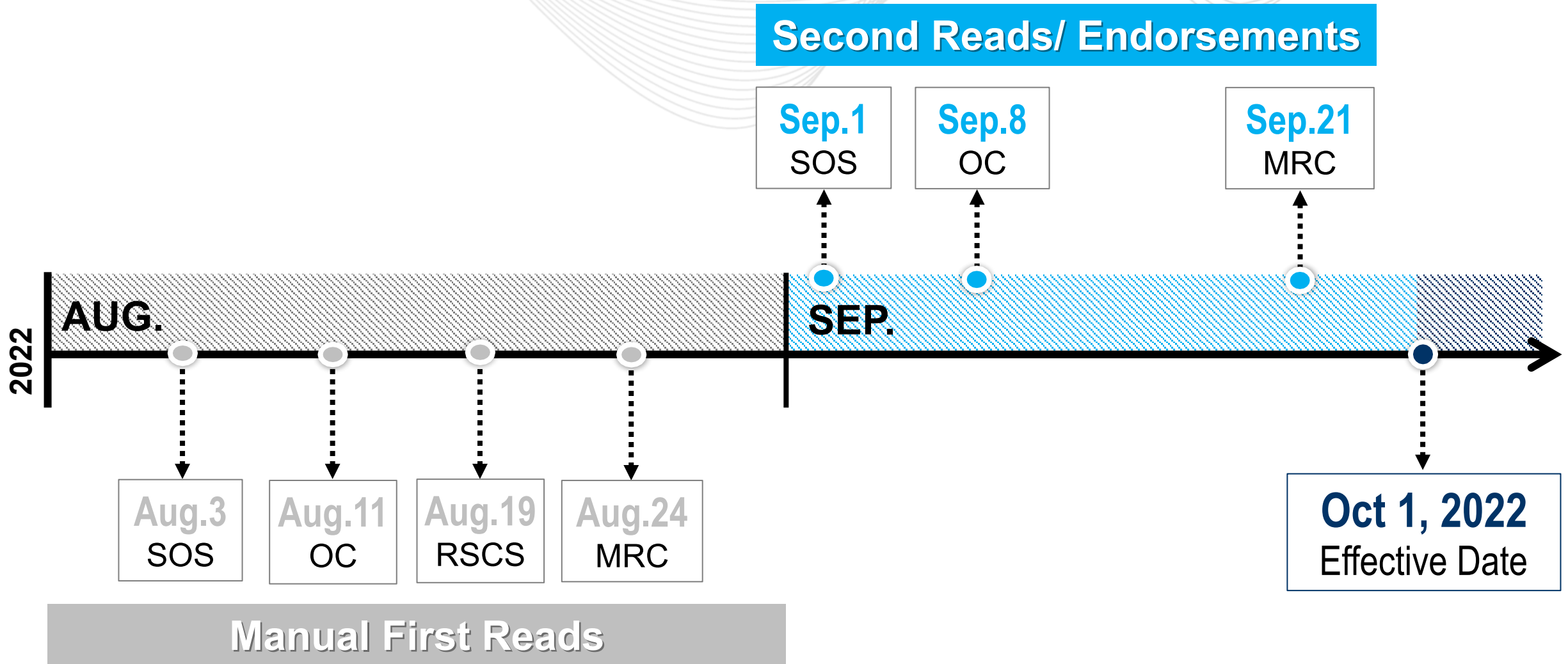
- Changes Driven by NERC Project 2019-06 – Cold Weather

Effective Date	Standards	
4/1/2023	EOP-011-2	Emergency Preparedness and Operations
4/1/2023	IRO-010-4	Reliability Coordinator Data Specification and Collection
4/1/2023	TOP-003-5	Operational Reliability Data

<https://www.nerc.com/pa/Stand/Pages/Project%202019-06%20Cold%20Weather.aspx>

- Section 7.3.5: Fuel, Emissions and Operational Data Reporting
  - Generation Owners or designated agents shall update eDART / Markets Gateway with unit specific resource limitations associated with cold weather preparedness, including:
    - Generator capability and availability
    - Fuel supply and inventory concerns
    - Fuel switching capabilities
    - Environmental constraints

- Section 7.3.5: Fuel, Emissions and Operational Data Reporting
  - **New Requirement**
    - Generating Facility minimum design temperature
    - Additional information can be communicated with an Informational eDART Ticket
- Attachment N: Cold Weather Preparation Guideline and Checklist
  - Added recommendation to take into account the effects of precipitation and wind during cold weather preparation.





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## **Manual 14D – Generator Operational Requirements Cold Weather Reporting Requirements**



### **Member Hotline**

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(610) 666-2244 / [it\\_ops\\_ctr\\_shift@pjm.com](mailto:it_ops_ctr_shift@pjm.com)



# Appendix

## Generating Facility Minimum Operating Temperature Data Request

- Originally based on joint NERC/FERC report on MISO cold weather event in January 2018
- Also accounts for lessons learned from ERCOT cold weather event
- Focused on low ambient operating temperature limits
- Follow up to data requests issued in 2020 and 2021
- Applicable to generating resources that have not previously provided the data to PJM

## Generating Facility Minimum Operating Temperature Data Request

- Intended to collect design temperature data
- Data Requests to be initiated in eDART
  - One specific to wind and solar units
  - One specific to all other units
- Open from 4/15/22 to 6/30/22