






PJM Manual 13: Emergency Operations v85 Revision Summary

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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</u> limit.</p> 	<p>When Advisory is Issued or as needed</p> 	<p>Generation Owners and designated agents.</p> 

- [Project 2019-06 Cold Weather](#)
 - To enhance the reliability of the BES during cold weather events by ensuring Generator Owners, Generator Operators, Reliability Coordinators, and Balancing Authorities prepare for extreme cold weather conditions.

- [Project 2021-07 Extreme Cold Weather Grid Operations, Preparedness, and Coordination \(NERC\)](#)
 - Address reliability related findings from the Federal Energy Regulatory Commission (FERC), NERC, and Regional Entity Joint Staff Inquiry into the February 2021 Cold Weather Grid Operations

- Section 3 Weather / Environmental Emergencies
 - Sub-section 3.3.1 Cold Weather Advisory (new)

- Offers advanced notice to PJM members of Potential Cold Weather allowing ample time to gather and report critical information and prepare facilities for cold weather readiness
- Addresses NERC Standard requirements as defined in EOP-011, IRO-010, TOP-003
- Defines PJM Actions for issuing Advisory
 - Issued greater than 24 hours (most likely 3-5 days) in advance of predicted cold weather
 - Issued Prior to Cold Weather Alert
- Defines Member Actions associated with cold weather readiness

- Prepare to take freeze protection actions, such as erecting temporary windbreaks or shelters, positioning heaters, verifying heat trace or draining equipment prone to freezing.
- Review weather forecasts, determine any forecasted operational changes, and notify PJM of any changes
- Update Markets Gateway by entering unit specific operation limitations associated with cold weather preparedness

3.3.1 Cold Weather Advisory M-13 Language

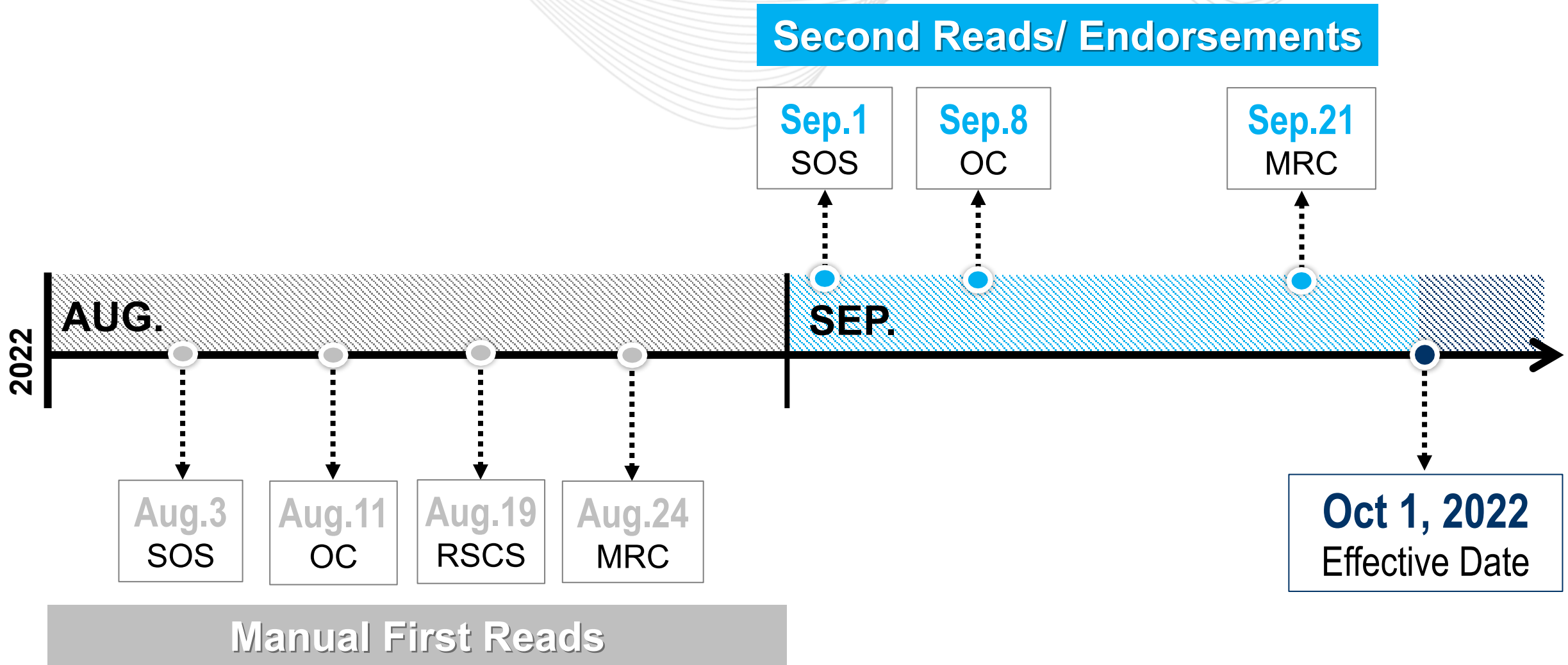
The purpose of the Cold Weather Advisory is to provide an early notice that forecasted temperatures may call for a Cold Weather Alert.

The early notification of an Advisory is intended to provide PJM members ample time to gather information required by NERC standards EOP-011, Emergency Preparedness and Operations, IRO-010 RC Data Specification and Collection, and TOP-003 Operational Reliability Data.

Members are to take any necessary precautions to prepare generating facilities for cold weather operations.

PJM will issue a Cold Weather Advisory on a zonal or RTO basis when temperatures are forecasted to trigger a Cold Weather Alert, typically greater than 24 hours in advance.

- NERC Operating Limitations identified in standards include:
 - Unit Capability
 - Unit Availability
 - Fuel Switching Capability
 - Fuel Supply / Inventory Concerns
 - Environmental Constraints
 - **Generating Unit Minimum (temperature limit):**
 - **Design temperature or**
 - **Historical operating temperature or**
 - **Current cold weather performance temperature determined by an engineering analysis**



- NERC project webpage:
 - [Project 2019-06 Cold Weather \(nerc.com\)](#)
 - [Project 2021-07 Extreme Cold Weather Grid Operations, Preparedness, and Coordination \(nerc.com\)](#)

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Manual 13 – Emergency Operations, Rev. 58 Cold Weather Reporting Requirements



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