PJM Manual 13: Emergency Operations
v85 Revision Summary

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Reliability Standards & Compliance Subcommittee
August 18, 2022
### Cold Weather Advisory

**Action Required**

Review and update unit operating parameters in advance of forecasted cold weather, including Generating Facility cold weather operating **temperature** limit.

**Deadline**

*When Advisory is Issued or as needed*

**Who May Be Affected**

Generation Owners and designated agents.

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Background

– **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
New Section 3.3.1 Cold weather Advisory

• Section 3 Weather / Environmental Emergencies
  – Sub-section 3.3.1 Cold Weather Advisory (new)
New Section 3.3.1 Cold weather Advisory

• 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
Cold Weather Advisory Member Actions

• 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
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

• 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
Timeline

Manual First Reads

Aug. 2022
- Aug. 3: SOS
- Aug. 11: OC
- Aug. 19: RSCS
- Aug. 24: MRC

Sep. 2022
- Sep. 1: SOS
- Sep. 8: OC
- Sep. 21: MRC

Oct 1, 2022
Effective Date
• NERC project webpage:
  
  
Facilitator:
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**Manual 13 – Emergency Operations, Rev. 58**
**Cold Weather Reporting Requirements**
PROTECT THE POWER GRID
THINK BEFORE YOU CLICK!

Be alert to malicious phishing emails.

Report suspicious email activity to PJM.
(610) 666-2244 / it_ops_ctr_shift@pjm.com