



TEXAS RE

Ensuring electric reliability for Texans



Cold Weather Project Update

Rachel Coyne

Manager, Reliability Standards Program

David Penney
Senior Principal

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Agenda



Approved by FERC 8/24/2021

Revisions to Standards

- EOP-011-2 Emergency Preparedness and Operations
- IRO-010-2 Reliability Coordinator Data Specification and Collection
- TOP-003-5 Operational Reliability Data

Effective 4/1/2023

Project 2021-07 Extreme Cold Weather Grid Operations, Preparedness, and Coordination

SAR Posted for comment November 2021

10 Recommendations in the SAR based on Joint Inquiry
Recommendation 1

SCEC accepted revised SAR February 25, 2022, and authorized the drafting team to begin work

Two phases

- Winter 2022/2023
- Winter 2023/2024

Project 2021-07 SAR Phase 1 Due Winter 2022/2023

Develop and implement corrective action plan (CAP) for identified equipment of outages, failures to start, or derate

Conduct annual unit-specific cold weather preparedness training

Retrofit existing generating units and design new units to operate to specified ambient temperature and weather conditions

Load shed procedures should only be used for manual load shed as a last resort and should start with the final stage

Project 2021-07 SAR Phase 2 Due Winter 2023/2024

Identify cold weather critical components and systems for each generating unit

Identify and implement freeze protection measures for the cold weather critical components and systems

Account for effects of precipitation and accelerated cooling effect of wind when providing temperature data

Determine the generating unit capacity that can be relied upon during “local forecasted cold weather”

Operating plans should prohibit use for demand response of critical natural gas infrastructure loads

Protect critical natural gas infrastructure loads from manual and automatic load shedding

Operator-control manual load shed procedures must account for the following:

- Minimize the overlap of circuits designated for manual load shed and circuits that serve critical loads
- Minimize the overlap of circuits designated for manual load shed and circuits are utilized for UVLS or UFLS
- Limit the utilization of UFLS or UVLS circuits for manual load shed to situations where warranted by system conditions

Proposed EOP-012-1 Extreme Cold Weather Preparedness and Operations

Purpose: To address the effects of operating in extreme cold weather by ensuring each Generator Owner has developed and implemented plan(s) to mitigate the reliability impacts of extreme cold weather on its generating units.

Moved EOP-011-2 R7 (cold weather preparedness plans) and EOP-011-2 R8 (training) to new EOP-012-1

- R1 – freeze protection criteria and updates to freeze protection systems
- R2 – exclusion basis with 5-year review
- R3 – cold weather preparedness plans
- R4 – 5-year review of minimum temperatures, cold weather plans and freeze protection measures
- R5 – annual training on cold weather preparedness plans
- R6 – corrective action plans for freezing events

Initial Ballot Results – Ballot ended 6/21/2022

	Ballot	Non-binding Poll
Standard	Quorum / Approval	Quorum / Supportive Opinions
EOP-012-1	94.27% / 21.94% (updated)	89.67% / 19.52%
EOP-011-3	94.59% / 69.66% (updated)	88.96% / 78.82%
Implementation Plan	93.27% / 57.74%	

Common themes in comments from the 1st public posting

- Selection of minimum temperature and weather conditions
- Preparedness vs. performance (continuous operation at extremes)
- Cost recovery, especially for retrofits
- Implementation time and possible exceptions
- Accounting for plant location and design for predominant conditions

Project 2021-07 Next Steps



Drafting team is completing its review and modifications



**Posted for additional ballot and comment on August 3, 2022.
Comments due September 1, 2022.**



Goal for development to be complete by September 30, 2022

Other Activities

Ongoing follow-up on the ERO FERC Inquiry

FERC NOPR (RM22-10-000) on Transmission System Planning Performance Requirements for Extreme Weather – issued June 16, 2022

PUCT Rulemakings (among others)

- Project 51839: Electric – Gas Coordination
- Project 51840: Rulemaking to Establish Weatherization Standards
- Project 53401: Electric Weather Preparedness Standards Phase II
- Project 51888: Review of Critical Load Standards and Processes
- Project 51889: Review of Communications for the Electric Market

Texas Railroad Commission (Rule Changes to 16 Texas Administrative Code):

- Draft Natural Gas Weatherization §3.66, comments close August 15, 2022
- Critical Designation of Natural Gas Infrastructure §3.65, effective December 20, 2021
- Natural Gas Curtailment §7.455, effective September 1, 2022

February 2021 Cold Weather Outages
in Texas and the South Central United
States (Joint Inquiry Report)

Project 2021-07 Extreme Cold
Weather Grid Operations,
Preparedness, and Coordination

Future Outreach

**Project 2021-07 NERC
and Standard Drafting
Team: August 2022**

**NERC Winter Weather
Prep Webinar:
September 1, 2022**

**Texas RE Extreme
Events Resiliency
Workshop:
September 20-21, 2022**

Contacts



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The background of the slide features a blurred image of the Texas state flag on the left and a close-up of a wind turbine's hub and blades on the right. The blades are white with red tips. A dark blue rounded rectangle is centered over the image.

Questions?



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