NERC
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

Meeting Agenda
Project 2023-07 Transmission System Planning Performance Requirements for Extreme Weather

November 9, 2023 | 12:00 – 3:00 p.m. Eastern

Review NERC Antitrust Compliance Guidelines and Public Announcement
Jordan Mallory, NERC staff, called attention to the NERC Antitrust Compliance Guidelines and the public meeting notice.

Roll Call and Determination of Quorum
J. Mallory completed the team roll call and quorum was determined. The member attendance sheet is attached as attachment 1.

Benchmarking Sub-team
J. Mallory asked who from the drafting team (DT) would be willing to volunteer to participate in a sub-team to review the extreme heat and extreme cold weather reports from the FERC NOPR. The purpose of the sub-team will be to review the reports and come back with combined data information to assist in developing the benchmark case. Below lists out the volunteers for this sub-team:

1. Jared Shaw
2. Dmitry Kosterev
3. Meenakshi Saravanan
4. David Duhart

New Standard or TPL-001 Modifications
The following question was presented to the DT seeking an initial informal read from team members. "Would you prefer to modify TPL-001, develop a new standard, or create a new standard with modifications to TPL-001?" The below provides high level responses from DT members.

- The majority of DT members were for drafting a new TPL-008 with the understanding that some modifications may need to be made to TPL-001 to sync up requirements.
- A couple of DT members said they could not fully answer this question as they needed to see where the discussions and data lies regarding what the DT comes up with through discussions, etc.

Study Frequency

A discussion was held around the frequency Transmission Planners should study extreme heat and extreme cold weather events for planning purposes. Below provides an overview of DT members responses.

- One every five years.
- Three to five years. Due to the generation fleet, may need studies completed more frequently, which would maybe be three years.
- Flexibility to the entity should be granted on the frequency of studies. Some entities may want to study between two to five years.
- Three to five years. May need seven years depending on the type of project.
- The FERC Order states six to years. May need to do it more frequently. Even if entities completed studies every 5 years, it does not preclude entities from doing it before 5 years. Longest near-term planning.

Standard Outline

Following the discussion above, the DT decided to outline what a standard would look like based on the FERC Order and the expertise of this team. Attachment 2 provides that outline.

Future Meeting(s)

a. November 16, 2023 | 12:00-3:00 p.m. Eastern
b. November 17, 2023 | 1:00-3:00 p.m. Eastern

Adjourn

The meeting adjourned at 3:00 p.m. eastern.

Attachment 1

	Name	Entity	Attendance
Chair	Evan Wilcox	American Electric Power	N
Vice Chair	Jared Shaw	Entergy Services	Y
Members	Josie Daggett	Western Area Power Administration	Y
	David Duhart	Southwest Power Pool	N
	Michael Herman	PJM Interconnection	Y
	Tracy Judson	Florida Power & Light	Y
	Sun Wook Kang	ERCOT	Y
	Andrew Kniska	ISO New England	Y
	Dmitry Kosterev	Bonneville Power Administration	Y
	David Le	California ISO	Y
	Karl Perman	CIP CORPS	N
	Meenakshi Saravanan	ISO New England	Y
	Kurtis Toews	Manitoba Hydro	N
	Hayk Zargaryan	Southern California Edison	Y
PMOS Liaison	Jason Chandler	Con Edison	Y
	Donovan Crane	WECC	N

	Name	Entity	Attendance
NERC Staff	Jordan Mallory – Standards Developer	North American Electric Reliability Corporation	Y
	Lauren Perotti – Assistant General Counsel	North American Electric Reliability Corporation	N

Attachment 2

A. Introduction

1. **Title:**

2. **Number:**

3. **Purpose:** Establish requirements for Transmission system planned performance during extreme heat and cold weather events.

4. **Applicability:**

   4.1. ***Functional Entities:***

      4.1.1. *Transmission Planner*

      4.1.2. *Planning Coordinator*

   4.2. ***Facilities:*** *(DELETE GREEN TEXT PRIOR TO PUBLISHING) Include this section only if there are certain facilities that the standard specifically applies to. Delete if section is not necessary.*

4.2.1. *(Subset of Facilities)*

4.2.2. *(Subset of Facilities)*

5. **Effective Date:** See Implementation Plan for Project 2023-07.

B. Requirements and Measures

R1. Each Planning Coordinator, in conjunction with its Transmission Planner(s), shall identify the individual and joint responsibilities of the Planning Coordinator and Transmission Planner(s) in the Planning Coordinator's planning area for maintaining models, performing the study or studies needed to complete benchmark and supplemental extreme heat and extreme cold weather Vulnerability Assessments, and implementing process(es) to obtain extreme heat and extreme cold weather measurement data as specified in this standard. *[Violation Risk Factor:] [Time Horizon:]*

R2. Benchmarking – team to determine what to do with this once data is provided from subgroup. *[Violation Risk Factor:] [Time Horizon:]*

R3. Each Transmission Planner and Planning Coordinator shall maintain System models within its respective area for performing the studies needed to complete its Planning Assessment. The models shall use data consistent with that provided in accordance with the MOD-032 standard, supplemented by other sources as needed. *[Violation Risk Factor:] [Time Horizon:]*

R4. Coordination between PCs and designated study entity, if needed.

4.1. Boundaries and coordination with respective areas.

R5. Incorporate data from benchmarking. Build the study cases.

5.1. Power flows

5.2. Stabilities

5.3. And other studies that would help. Can pull from TPL-001 standard.

R6. Perform the benchmark study.

6.1. Contingency selection. (see TPL-001 for language starting point).

6.1.1. Requesting contingency from adjacent planning coordinators.

6.2. Frequency of study

R7. How prescriptive we are in the methodology for determining a criteria for Cascading, voltage instability, or uncontrol islanding.

7.1. Long-term planning horizon.

R8. CAP Requirement

R9. TPL-001 – sharing planning assessment with adjacent planning coordinators.