

Meeting Notes

Project 2023-06 CIP-014 Risk Assessment Refinement Drafting Team

November 20, 2024 | 9:00 a.m. – 5:00 p.m. Central;
November 21, 2024 | 8:30 a.m. – 5:00 p.m. Central;
November 22, 2024 | 8:30 a.m. – 12:00 p.m. Central.

Introduction and Chair's Remarks

The meeting started at 9:00 p.m. Central. The Chair welcomed the Drafting Team (DT) members and the participants from the industry. See **Attachments 1 -3** for those in attendance.

NERC Antitrust Compliance Guidelines and Public Announcement

The NERC Antitrust Compliance Guidelines, NERC Participant Conduct Policy, and the Public Announcement were presented and reviewed by the secretary. This is an in-person meeting. Site safety was briefly discussed by the FRCC staff.

Agenda Items

1. Develop Draft of Standard, Implementation Plan, VRFs and VSLs

- a. The drafting team reviewed the comments received from the industry. Given that the intent is for a single event that could render both substations inoperable, should we consider a distance much closer than 1/2 mile (e.g., 100 feet)? Determining the exact distance from a transmission planning perspective is challenging, so does it make sense to consult with security experts on this matter. 100 feet is probably too close. I do agree that 1/2 mile might be too far. let's see what the DT decides on. One commenter said 1000 ft, which if in the middle becomes 2000 ft between substations, or 0.38 miles (if that is 'better' than 0.5 miles). The SDT specified a maximum distance beyond which industry would not be required to subjectively justify, as requested by industry. One-half mile between substations would only be 1/4 mile from a detonation between them.
- b. If it is BES, would not modeling information (except protection settings, etc.) be available via MOD-032 and other sources, incl. your one-line positive sequence model.
- c. Line Of Site could be discussed as 'obstacles' between proximity substations. The Registered Entity has no obligation to protect substations proximate to its applicable substations. would be helpful to identify a reference point for the measurement....within X distance of an applicable Transmission station or Transmission substation fence or closest BES bus etc.
- d. Each Transmission Owner shall develop a list of Transmission station(s) and Transmission substation(s), irrespective of ownership, within XXX of an applicable Transmission station or Transmission substation documented in Requirement R1.

- e. R2. Each Transmission Owner shall document any proximate Transmission station(s) and Transmission substation(s), irrespective of ownership, within DISTANCE of an applicable Transmission station or Transmission substation documented in Requirement R1.
- f. R3.3 in an earlier version stated something like Analysis of fault simulations, as follows:
 - 1.1.1.** For applicable Transmission station(s) or Transmission substation(s) listed in accordance with Requirement R1, fault simulations shall include a double-line-to-ground or three-phase fault unless the TO can provide a technical justification for a single-phase fault. The fault should [QPGM1] [QPGM2] be applied at the highest voltage level bus or the voltage level expected to produce the most extreme system impacts.
 - 1.1.2.** For Transmission station(s) or Transmission substation(s) identified in accordance with Requirement R2 as being in proximity to an applicable Transmission station or Transmission substation, fault simulations at those Transmission station(s) and Transmission substation(s) shall include single-phase faults at each of the Transmission station(s) or Transmission substation(s) at the highest voltage level buses or the voltage level(s) expected to produce the most extreme system impacts.

2. Adjourn

Meetings were adjourned at 4:58 pm (Central) on the first day, 5:02 pm on the second day, and 10:03 am on the third day.

Attachment 1

Name	Company	Member/Observer	Date
Kirpal Bahra	Hydro One	Member	11/20/2024
Andres Lopez	FERC	Observer	11/20/2024
Patrick Quinn	GREnergy	Vice Chair	11/20/2024
Joe Amato	Mid-American	Observer	11/20/2024
Ruth Kloecker	ITC Transco	Observer	11/20/2024
Melissa Wehde	Mid-American	Observer	11/20/2024
Jason Chandler	ConEd	Observer	11/20/2024
Amir Mohammednur	SCE	Observer	11/20/2024
Tyler Whiting	WECC	Observer	11/20/2024
Scott Klauminzer	City of Tacoma	Observer	11/20/2024
Morgan King	WECC	Observer	11/20/2024
Herb Schrayshuen	Power Advisors LLC	Observer	11/20/2024
Brian Deckert	NPCC	Observer	11/20/2024
Ryan Byerly	Southwest Microwave	Observer	11/20/2024
Caleb Westfall	BPA	Observer	11/20/2024
Mike Johnson	Earthlink	Observer	11/20/2024
Hossiel Miras	FPL	Observer	11/20/2024
Bob Pierce	Duke Energy	Observer	11/20/2024
David Schooley	ComEd	Member	11/20/2024
Luisa Botero	FPL	Observer	11/20/2024
Adrian Lazo	Entergy	Observer	11/20/2024
Claudine Fritz	Exelon Corp.	Observer	11/20/2024
Mina Turner	AEP	Member	11/20/2024
Craig Rademacher	BPA	Observer	11/20/2024
Joel Rogers	SERC	Member	11/20/2024
Sarah Crawford	NERC	NERC Staff	11/20/2024
Per-Anders Lof	National Grid	Member	11/20/2024
Brian Deckert	NPCC	Observer	11/20/2024
Kalem Long	Algonquin Power & Utilities Corp.	Observer	11/20/2024
Dylan Maynard	Pacificorp	Observer	11/20/2024

Ben Wu	NERC	Secretary	11/20/2024
Hossiel Miras	FPL	Observer	11/20/2024
Tom Williams	WECC	Observer	11/20/2024
Matt Stryker	SERC	Observer	11/20/2024
Ron Sporseen	BPA	Observer	11/20/2024
Mayte Luna	Epelctric	Observer	11/20/2024
Tamarra Hardie	Chelanpud	Observer	11/20/2024
Qamar Arsalan	PSEG	Member	11/20/2024
Bart White	Duke Energy	Member	11/20/2024
Michael Taube	MRO	Observer	11/20/2024
Judy Sciullo	FERC	Observer	11/20/2024
S. Mayers	Amp Partners	Observer	11/20/2024
John Daho	Meag Power	Observer	11/20/2024
Amjed Kandah	Oncor	Observer	11/20/2024

Attachment 2

Name	Company	Member/Observer	Date
Adrian Lazo	Entergy	Observer	11/21/2024
Hossiel Miras	FPL	Observer	11/21/2024
Per-Anders Lof	National Grid	Member	11/21/2024
Bart White	Duke Energy	Member	11/21/2024
Qamar Arsalan	PSEG	Member	11/21/2024
Ben Wu	NERC	Secretary	11/21/2024
Scott Klauminzer	City of Tacoma	Observer	11/21/2024
Mina Turner	AEP	Member	11/21/2024
Amir Mohammednur	SCE	Observer	11/21/2024
Claudine Fritz	Exelon Corp	Observer	11/21/2024
Dylan Maynard	Pacificorp	Observer	11/21/2024
Sarah Crawford	NERC	NERC Staff	11/21/2024
Kalem Long	Liberty Utilities	Observer	11/21/2024
Morgan King	WECC	Observer	11/21/2024

Karina Valencia	Oncor	Observer	11/21/2024
Judy Sciullo	FERC	Observer	11/21/2024
Tamarra Hardie	Chelanpud	Observer	11/21/2024
S. Mayers	Amp Partners	Observer	11/21/2024
Andres Esquerra	FERC	Observer	11/21/2024
Joe Amato	Mid-American	Observer	11/21/2024
Hossiel Miras	FPL	Observer	11/21/2024
Caleb Westfall	BPA	Observer	11/21/2024
Joel Rogers	SERC	Member	11/21/2024
Craig Rademacher	BPA	Observer	11/21/2024
Ryan Byerly	Southwest Microwave	Observer	11/21/2024
Mark Garza	First Energy Corp	Observer	11/21/2024
Patrick Quinn	GR Energy	Vice Chair	11/21/2024
Bob Pierce	Duke Energy	Observer	11/21/2024
David Schooley	ComEd	Member	11/21/2024

Attachment 3

Name	Company	Member/Observer	Date
Kalem Long	Algonquin Power & Utilities Corp.	Observer	11/22/2024
Caleb Westfall	BPA	Observer	11/22/2024
Patrick Quinn	GR Energy	Member	11/22/2024
Luisa Botero	FPL	Observer	11/22/2024
Joe Amato	Mid-American	Member	11/22/2024
David Schooley	ComEd	Observer	11/22/2024
Luisa Botero	FPL	Observer	11/22/2024
Sarah Crawford	NERC	Observer	11/22/2024
Qamar Arsalan	PSEG	Member	11/22/2024
Bart White	Duke Energy	Vice Chair	11/22/2024
Morgan King	WECC	Observer	11/22/2024
Per-Anders Lof	National Grid	Observer	11/22/2024
Ben Wu	NERC	Member	11/22/2024

Hossiel Miras	FPL	Member	11/22/2024
Dylan Maynard	Pacificorp	Observer	11/22/2024
Mike Johnson	Earthlink	Observer	11/22/2024
Bob Pierce	Duke Energy	NERC Staff	11/22/2024
Mina Turner	AEP	Observer	11/22/2024
Judy Sciullo	FERC	Observer	11/22/2024