



June 9, 2022

Members, Reliability Coordinating Committee
and
Members, Task Force on Coordination of Operation
Members, Task Force on Coordination of Planning
Members, Task Force on Infrastructure Security and Technology
Members, Task Force on System Protection
Members, Task Force on System Studies

Re: Minutes of the March 2, 2022 RCC Meeting

Sir / Madam:

Attached are the Minutes of the March 2, 2022 meeting of the NPCC Reliability Coordinating Committee, as approved at the June 8, 2022 RCC meeting.

Sincerely,

Michael R. Lombardi

Michael R. Lombardi
Director, Reliability Assessments

cc: NPCC Staff



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
March 2, 2022

Mr. Adam called the meeting of the Reliability Coordinating Committee (RCC), held by WebEx to order at 10:00 am.

Attendance

Officers of the Reliability Coordinating Committee

Gabriel Adam, Chair	Ontario IESO
Anie Philip, Co-Vice Chair	Long Island Power Authority
Michael Jones, Co-Vice Chair	National Grid

Sector 1 - Transmission Owners

Central Hudson Gas & Electric Corporation	Michael E. Ridolfino
	Damian Interrante - Alternate
	(via written proxy)
Central Maine Power Company	(proxy to Aleksandra Gofman)
Consolidated Edison Company of New York, Inc.	George Wegh
Eversource Energy	Ajay Garg - Alternate
Hydro-One, Inc.	Anie Philip
Long Island Power Authority	Abhinav Rawat
National Grid USA	Mark Domino
	Randy MacDonald
	(proxy to Frank Ronci)
	(via written proxy)
New Brunswick Power Corporation	Chris Milligan - Alternate
New York Power Authority	Nick Kowalczyk
New York State Electric & Gas Corporation	(via written proxy)
Nova Scotia Power, Inc.	(via written proxy)
Orange & Rockland Utilities, Inc.	Hantz Presume
Rochester Gas & Electric Corporation	
The United Illuminating Company	
Vermont Electric Power Company, Inc.	

Sector 2 – Reliability Coordinators

Hydro-Québec TransÉnergie	(proxy to Stéphane Desbiens)
ISO New England, Inc.	James Helton
New Brunswick Power Corporation	Scott Brown
New York ISO	Zach Smith
Ontario IESO	Gabriel Adam

Sector 3 – Transmission Dependent Utilities, Distribution Companies and Load Serving Entities

Consolidated Edison Company of New York, Inc.	(proxy to Aleksandra Gofman)
Hydro-Quebec Distribution	Hakim Sennoun - Alternate
Long Island Power Authority	(proxy to Anie Philip)
National Grid	Mike Jones
New York Power Authority	(proxy to Frank Ronci)



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
March 2, 2022

Sector 4 Generation Owners

Consolidated Edison Company of New York, Inc.	(proxy to Aleksandra Gofman)
Dominion Energy, Inc.	Sean Bodkin
Long Island Power Authority	(proxy to Anie Philip)
New York Power Authority	Salvatore Spagnolo - Alternate
NextEra Energy Resources	Allen D. Schriver
	Rigoberto Milla - Alternate
Ontario Power Generation	David Kwan - Alternate
Talen Energy Marketing	(proxy to Phil Fedora)
Vistra Energy Corporation	Ken Stell

Sector 5 – Marketers, Brokers, and Aggregators

Consolidated Edison Company of New York, Inc.	Aleksandra Gofman
Long Island Power Authority	(proxy to Anie Philip)
Utility Services of Vermont, LLC	Brian Robinson - Alternate

Sector 6 – State and Provincial Regulatory and/or Governmental Authorities

Long Island Power Authority	(proxy to Anie Philip)
New York Power Authority	Shivaz Chopra

Sector 7 – Sub-Regional Reliability Councils, Customers, other Regional Entities, and Interested Entities

New York State Reliability Council, LLC	Roger Clayton
RLC Engineering	David Conroy

NPCC Staff

Charles Dickerson	President & Chief Executive Officer
Phil Fedora	Vice President Reliability Services and Chief Engineer
Brian Hogue	Information Systems & Security Management
Scott Nied	Vice President, Compliance
Jessica Hala	Director, Finance and Accounting
Damase Hebert	Associate General Counsel & Director, Enforcement
Andrey Oks	Director of Operations Coordination
Ruida Shu	Manager, Reliability Standards
Michael Lombardi	Director, Reliability Assessments
Quoc Le	Manager, System Planning
Rafael Sahiholamal	Manager, System Protection
Andreas Klaube	Senior Engineer, Operations Planning
Neeraj Lal	Manager, System Studies
Shayan Rizvi	Senior Reliability and Performance Analysis Engineer

Guests

Calvin Curry	Vice Chair, Task Force on Infrastructure Security & Technology
Edward Roedel	Chair, Task Force on Coordination of Planning
Frank Peng	Chair, CO-12 Working Group
Gary Trezza	Long Island Power Authority



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
March 2, 2022

Jim Fawcett	Ontario IESO
John Babu	Chair, Task Force on System Protection
Jonathan Pollock	Chair, Task Force on Coordination of Operation
Joy Brake	Chair, Task Force on System Studies
William Vesely	Chair, Task Force on Infrastructure Security & Technology

Quorum Statement

Mr. Lombardi indicated that a quorum had been achieved, by member attendance, proxy, or alternate designation. Mr. Fedora also indicated receiving the following written proxies:

Sector 1 – Transmission Owners

Matt Saddler - Central Maine Power Company
Tim Lynch - New York State Electric & Gas Corp.
David Kimiecik - Rochester Gas & Electric
David Bradt - The United Illuminating Company

Antitrust Guidelines for NPCC Meetings

Mr. Lombardi read the NPCC Antitrust Guidelines provided in the Agenda package.

Safety Message

Mr. Lombardi provided a safety message in recognition of March Poison Prevention Awareness Month.

President & CEO Report

NPCC 2023 Business Plan and Budget Development Schedule

Mr. Dickerson reported that the *NPCC 2023 Business Plan and Budget* is being developed considering the workload, resources, gaps, necessary travel along with guidance from the NPCC Board and the Board's Finance and Audit Committee. The NPCC 2023 Business Plan and Budget schedule was provided in the Agenda package. Ms. Hala reported that the 2023 NPCC Business Plan and Budget will be posted on the NPCC public website on May 4, 2022 with a comment period ending May 25, 2022. A summary of both the NPCC 2023 Business Plan and Budget and the ERO Enterprise 2023 Business Plan and Budget will be provided at the June 8, 2022 RCC meeting.

NPCC 2022 Corporate Reliability Goals

Mr. Dickerson reported on the NPCC 2022 Corporate Reliability Goals; specifically, the strategic reliability Focus Areas under which these goals are set - enhancing system resilience and assuring energy efficiency, reliable integration variable resources, and addressing cyber and physical threats. Mr. Dickerson noted that the full set of the NPCC 2022 Corporate Reliability Goals are included in the Agenda package. Mr. Fedora indicated the 2022 Corporate Reliability Goals associated with the RCC will be reviewed later in the meeting.



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
March 2, 2022

Chair Report

Agenda

Mr. Adam reviewed the Agenda provided in the Agenda package. The November 30, 2021 and the December 10, 2021 RCC Meeting Minutes, respectively, were not made available for review and approval prior to the RCC meeting. Additionally, there were no RCC Roster Changes identified at this time. Therefore, the three items were removed from the Consent Agenda.

The RCC approved the Agenda with these changes.

Approved RCC Scope

Mr. Adam reported that NPCC Board approved the RCC Scope of Work, included in the Agenda package, at their February 2, 2022 meeting.

Approved RCC 2022-2023 Work Plan

Mr. Adam reported that NPCC Board approved 2022-2023 RCC Work Plan, included in the Agenda package, at their February 2, 2022 meeting; he added that the Board expressed their appreciation over the quantity and quality of work conducted by the RCC and its Task Forces and Working Groups.

RCC 2022 Meeting Schedule

Mr. Adam suggested that additional RCC meetings could be beneficial to address the high volume of work anticipated for this year. Mr. Fedora indicated that the RCC typically has four meetings a year, however, at the discretion of RCC leadership additional meetings can be scheduled as needed.

NPCC Website Update

Mr. Hogue highlighted navigation changes for the NPCC web site. The changes primarily consist of the library links and document migration including, for the RAPA program, a new area menu for Publications and Reports. Mr. Fedora also indicated that a look up table is being used to ensure the old links still work with the new web site design.

Policy Discussion

February 2, 2022 NPCC Board Meeting - NPCC 2022 Corporate Reliability Goals

Mr. Fedora indicated that the NPCC Board stated the need for RCC goal endorsement is to provide a technical feedback loop and aid in determining goal attainment.

Mr. Fedora highlighted the following NPCC 2022 Corporate Reliability Goals associated with the RCC:

I-A Enhancing System Resilience

IA-4 Identify and provide recommendation(s) to revise NPCC Reliability Criteria for consideration by the NPCC Members:

- Present scope and goals proposed for a tabletop manual loadshedding exercise for RCC endorsement – by June 2022.
- Conduct the tabletop exercise – by September 2022.



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
March 2, 2022

- Report “lessons learned” and any NPCC Reliability criteria revisions recommendations for RCC endorsement – by December 2022.

I-B Assuring Energy Sufficiency

IB-1 Assess gas-electric interdependencies:

- Form a technical committee, consisting of members of the gas transmission and distribution community as well as the electric utility industry, to identify future NPCC Regional gas-electric interdependency risk(s) - by June 2022.
- Report the results of the NPCC Regional gas-electric review– by September 22.
- Develop a report addressing the identified future gas-electric interdependencies with recommendations for mitigating actions for RCC endorsement - by December 2022.

IB-2 Identify and provide recommendation(s) to revise NPCC Reliability Criteria for consideration by the NPCC Members:

- Actively participate in the EPRI Resource Adequacy for a Decarbonized Future Project – through December 2022.
- Draft a report that summarizes resource adequacy scenario definition guidelines in support of regional energy sufficiency and reliability objectives. Status to the RCC – by September 2022.
- Present NPCC Regional recommendation(s) addressing identified gaps in commercial reliability adequacy assessment tools and suggest areas new metric, model, and algorithm improvements to the RCC - by December 2022.

IB-3 Assure sufficient real-time awareness of DER/VER resource availability and capability and that there are contingency plans when energy limitations affect the resource:

- Participate in the US DOE Atlantic Offshore Wind Study - through December 2022.
- Present identified potential resource energy limitations such as caused by weather events, common mode failure scenarios caused by interdependencies and transmission constraints to the RCC – by September 2022.
- Develop NPCC Regional recommendations for resource adequacy energy sufficiency assessments for RCC endorsement - by December 2022.

II Reliably Integrating the Resources brought forward by Societal De-Carbonization Objectives, including Distributed Energy Resources (DER) and Variable Energy Resources (VER)

II-1 Enhance the review and coordination of distributed energy resource requirements and the identification of potential inconsistencies between State and Provincial Regulatory rules and continuing enhancement of a Regionally consistent DER guidelines document by outreach to load serving entities.

- Present DER Guideline enhancements to the RCC and RSC for endorsement – by December 2022.
- Develop future revisions to NPCC Directory No. 1 to address reliability contributions and challenges of changing technologies and load characteristics for RCC and RSC endorsement – by December 2022.

II-2 Enhance outreach to states, provinces, planning authorities and other stakeholders to establish a higher degree of coordination and transparency during the energy transition brought forward by societal de-carbonization objectives;

- Provide quarterly status reports to the RCC and RSC - by December 2022.



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
March 2, 2022

Mr. Adam noted that the RCC Scope of Work recognizes the NPCC strategic reliability Focus Areas and that the RCC will provide support as needed.

February 10, 2022 NERC Members Representative Committee (MRC)/Board of Trustees (BOT) Meeting(s)

Mr. Fedora referred to the materials in Agenda package and highlighted the following items:

- ✓ The Electric Reliability Organization 2021 activities were discussed; the BOT recognized importance of planning for the future. Given the complexities of the rapidly changing grid, the BOT is focused on enhancing NERC's processes to ensure timely risk mitigation.
- ✓ The MRC reelected BOT members for new terms; following the MRC meeting, the BOT approved Ken DeFontes as Chair, George Hawkins as Vice Chair and approved new BOT committee appointments. The Board also approved the appointment of NERC officers, including new additions.
- ✓ The BOT approved revisions to the NERC Standards Committee Charter, and approved the 2022 work plans for the Standards Committee, the Compliance and Certification Committee and the Personnel Certification Governance Committee, which also received approval for its System Operator Certification Manual.
- ✓ The BOT approved a modification to Reliability Standard CIP-014-3 – Physical Security. This modified version of the standard removes a unique compliance monitoring provision, which is no longer needed following the adoption of the ERO Enterprise Secure Evidence Locker and other tools for secure review of sensitive evidence. No changes were proposed to the mandatory and enforceable elements of the standard.

The BOT expressed its desire to return to face-to-face meetings. NERC indicated the May MRC/BOT meetings are scheduled to be held at a hotel in Pentagon city in Washington. D.C. In response to a question about the possibility of the meetings being hybrid, NERC responded that the meetings will be in-person only.

February 16, 2022 - NERC Industry Workshop – Energy Reliability Assessment Task Force (ERATF) Update

Mr. Fedora indicated that the ERAFT has developed a draft Standard Authorization Request to address energy assurance and fuel assurance. The ERAFT held a three panel industry workshop on February 16, 2022 to discuss their perspectives from the operations and operational planning view (Panel 1), the mid to long term planning view (Panel 2) and the R&D panel (Panel 3). The workshop was a full day in duration and provided thorough discussion of the issues. The information from workshop will be discussed at the upcoming NERC RSTC meeting.

March 8-9, 2022 NERC Reliability and Security Technical Committee (RSTC) Meeting

Mr. Oks noted that notice of the RSTC March 3rd Informational Session is included in the Agenda package. The Informational Session will discuss the upcoming agenda topics for the March 8-9, 2022 RSTC meeting(s). He then led a discussion of the following agenda topics scheduled for consideration at the March 8-9, 2022 NERC RSTC Meeting:

Energy Reliability Assessments Task Force (ERATF) Standard Authorization Request (SAR) – Information - the ERATF will provide update to the RSTC regarding its activities associated with the risks related to unassured energy supplies, including the timing and inconsistent output



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
March 2, 2022

from variable renewable energy resources, fuel location, and volatility in forecasted load, which can result in insufficient amounts of energy on the system to serve electrical demand.

RSTC Work Plan, Reliability Issues Steering Committee (RISC) Report Recommendations and Joint FERC NERC Cold Weather Report Recommendations Information

At the September RSTC meeting, the RISC Report Recommendations were reviewed, and a Tiger Team formed to review the RISC Report Recommendations and the Joint FERC/NERC Cold Weather Report recommendations to create or modify RSTC work plan items to address the recommendations. The Tiger Team is providing a status update as well as a plan to coordinate with RSTC subgroups to review risks, develop mitigation activities, and work plan items. The Tiger Team is also requesting to be disbanded.

NERC System Planning Impacts from DER Working Group (SPIDERWG) - Mr. Rizvi led a discussion on the following SPIDERWG agenda topics:

- ✓ **Reliability Guideline: DER Forecasting Practices and Relationship to DER Modeling for BPS Planning Studies** - the SPIDERWG developed the guideline and posted it for a 45-day comment period and has addressed comments/made conforming revisions to the document. The SPIDERWG is asking for RSTC approval of the Reliability Guideline. If approved, the Reliability Guideline will be posted on the RSTC Reliability and Security Guidelines web page for industry use.
- ✓ **White Paper: BPS Reliability Perspectives for Distributed Energy Resource Aggregators** - the white paper provides Bulk Power System (BPS) reliability perspectives and considerations regarding Distributed Energy Resource (DER) aggregation in light of FERC Order No. 2222, which introduces the concept of DER aggregation in wholesale electricity markets. The SPIDERWG is asking for RSTC members to review and provide comment on the white paper.
- ✓ **White Paper: NERC Reliability Standards Review**- the SPIDERWG has evaluated the current body of NERC Reliability Standards and the requirements within those standards for their applicability and effectiveness to remain relevant with increasing levels of DERs. The white paper details the findings of the SPIDERWG review and makes recommendations for actions that should be taken to address identified issues. The SPIDERWG is asking for RSTC members to review and provide comment on the white paper.

Consent Agenda

The Reliability Coordinating Committee unanimously approved the following Consent Agenda Items (all written proxies in favor):

Task Force/Working Group Roster Changes

The following changes to Task Force and Working Group memberships were approved:

Task Force on Coordination of Planning

- ✓ Peter Wong of ISO-New England, Inc. to serve as an alternate
- ✓ Ismael El-Samahy of the Ontario IESO to succeed Christopher Reali as an alternate
- ✓ Alex Borovinski of Consolidated Edison Company of New York, Inc. to succeed Maximus Rizk as the representative

Task Force on Coordination of Operation

- ✓ David Cloutier of Eversource Energy to succeed Mike Gopinathan as an alternate
- ✓ Steve Gould of ISO-New England, Inc. to succeed John Norden as the representative and as the Vice Chair



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
March 2, 2022

- ✓ Jonathan Gravelin of ISO-New England, Inc. to succeed Steve Gould as an alternate
- ✓ Maxime Nadeau of Hydro-Québec TransÉnergie (Reliability Coordinator) to succeed
- ✓ Charles-Éric Langlois as the representative
- ✓ Pascal Prud'homme of Hydro-Québec TransÉnergie (Transmission Owner) to serve as the representative
- ✓ Sermad Badawi of Hydro-Québec TransÉnergie (Transmission Owner) to serve as an alternate

Task Force on System Studies

- ✓ Marc Morissette of Hydro-Québec TransÉnergie to serve as the Vice Chair
- ✓ Jim DiLuca of Eversource Energy to succeed Carl Benker as the representative
- ✓ Carl Benker of Eversource Energy to serve as an alternate
- ✓ Christopher Schramm of The United Illuminating Company to succeed Frank Walsh as the representative
- ✓ Noor Leghari of Rochester Gas & Electric (Avangrid) to serve as the representative
- ✓ Kofi Nimako of New York State Electric & Gas (Avangrid) to serve as an alternate
- ✓ Bryce Clothier of Nova Scotia Power Inc. to succeed Hung Huynh as an alternate
- ✓ Alex Borovinski of the Consolidated Edison Company of New York, Inc. to succeed Maximus Rizk as the representative

Task Force on System Protection

- ✓ Dallas Evans of IRONHOUSE Inc. to succeed Brian Langlais as an alternate
- ✓ Harshill Patel of New York State Electric & Gas (Avangrid) to serve as an alternate
- ✓ Philip Chorazy of the New York Independent System Operator to serve as an alternate
- ✓ Alex Norton of TRC to serve as the representative

Task Force on Infrastructure Security & Technology

- ✓ Anthony Bussard of National Grid USA to succeed John Keany as the representative
- ✓ Nicholas Boffoli of Central Hudson Gas and Electric Corporation to succeed Erica Tyler as the representative
- ✓ Nayab Saeed of Ontario Power Generation Inc. to serve as an alternate
- ✓ Matthew Purnell of Central Maine Power Company to serve as an alternate
- ✓ Jerry Mogan of Central Maine Power Company to serve as an alternate

CO-8 System Operations Managers Working Group

- ✓ Jonathan Gravelin of ISO-New England, Inc. to succeed Steve Gould as the representative and as the Vice Chair
- ✓ Steve Gould of ISO-New England, Inc. to succeed Jonathan Gravelin as an alternate
- ✓ Marc Theriault of the New Brunswick Power Corporation to succeed Rod Hicks as an alternate
- ✓ Matthew Vos of the Ontario IESO to serve as an alternate
- ✓ Kevin Hatch of PJM, Inc. to succeed Donnie Bielak as the representative
- ✓ Donnie Bielak of PJM, Inc. to succeed Chris Pilon as an alternate

CO-11 Restoration Working Group

- ✓ Robert Golen of the New York ISO to succeed Kevin Clark of ISO-New England, Inc. as the Chair
- ✓ Joe Koltz of ISO-New England, Inc. to succeed Kevin Clark as the representative
- ✓ Mark Townsend of Hydro One Inc to succeed Rick Johnson as the representative
- ✓ Marzuq Ajani of Hydro-Québec TransÉnergie to succeed Martin Beaudin as the representative
- ✓ Martin Beaudin of Hydro-Québec TransÉnergie to succeed Marzuq Ajani as an alternate

CO-12 Operations Planning Working Group

- ✓ Frank Peng of the Ontario IESO to succeed Tim Hicks of New Brunswick Power Corporation as the Chair
- ✓ Tim Hicks of New Brunswick Power Corporation to succeed Frank Peng of the Ontario IESO as the Vice Chair



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
March 2, 2022

- ✓ Connor Corsi of ISO-New England, Inc. to succeed Kevin Clark as the representative

CO-14 Operations Load Forecast Working Group

- ✓ Tim Hicks of the New Brunswick Power Corporation to serve as an alternate

CP-8 Resource and Transmission Adequacy Review Working Group

- ✓ Gary Jordan to replace Greg Drake as the NYSRC representative
- ✓ Kevin Osse to replace Frank Ciani as the New York ISO representative
- ✓ Rahul Mittal to serve as the Ontario IESO representative
- ✓ Vithy Vithyananthan, Anna Lafoyiannis, and Emanuel Moldovan to serve as the Ontario IESO alternates

SP-7 Protection System Misoperation Review Working Group

- ✓ Alain Matte of Hydro-Québec TransÉnergie to serve as the representative
- ✓ Nathan Cote of Eversource Energy to no longer serve as the representative
- ✓ Ted Nurilov of Nova Scotia Power Inc. to succeed Xiankai Wang as the representative

SS-37 Base Case Development Working Group

- ✓ Ayman Eltantawy of the Ontario IESO to succeed Mohab Elnashar as the representative
- ✓ Susan Alexander of the Ontario IESO to succeed Devider Badhan as an alternate

SS-38 Inter-Area Dynamic Analysis Working Group

- ✓ Peter Huynh of Nova Scotia Power Inc. to serve as the Chair
- ✓ Tejas Tamhankar of the New York ISO to serve as the representative
- ✓ Praneeth Mudunuri of the New York ISO to serve as an alternate

SS-39 Geomagnetic Disturbances Working Group

- ✓ Ramya Nagarajan of LS Power Grid New York, LLC to serve as the representative
- ✓ Ed Roedel of The United Illuminating Company succeeds Frank Walsh as the representative

SS-40 Load Model Working Group

- ✓ Praneeth Mudunuri of the New York ISO to serve as the representative
- ✓ Tejas Tamhankar of the New York ISO to serve as an alternate

2021 BPS and DCT Exclusion Lists

Approved as provided in the Agenda package.

2021 Québec Interim Area Transmission Review

Approved as provided in the Agenda package.

Approval Items

NPCC 2021 Tie Benefits Study

Mr. Fedora reviewed the *2021 NPCC Tie Benefits Study* provided in the Agenda package. The study verified that the current levels of interconnection benefits assumed in each NPCC Area's resource adequacy studies are reasonable and do not overstate the amount of interconnection assistance available.

A draft report was presented for review at the February 8-9, 2022 Task Force on Coordination of Planning (TFCP) meeting. It was subsequently updated to include a trend analysis of the interconnection assistance reported for years 2011-2026. The TFCP agreed with the study's conclusions and recommended RCC approval.

After discussion, the RCC then unanimously approved the *2021 NPCC Tie Benefits Study* provided in the Agenda package (all written proxies in favor).



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
March 2, 2022

Discussion Items

NPCC 2021-2022 Winter Operations Review

Each NPCC Area provided an overview of their respective NPCC 2021-2022 Winter Operations experience. While cold weather in the northeast region of the U.S. and Canada resulted in some NPCC Areas hitting all-time peak loads and experiencing tight supply conditions, each NPCC Area reliably served their respective peak load exposure.

Presentations given by Hydro-Quebec and Ontario are included in the Agenda package.

2022 NPCC Summer Reliability Assessment

The preliminary *2022 NPCC Summer Reliability Assessment* results prepared by the NPCC CO-12 and CP-8 Working Groups included in the Agenda package were presented respectively by Mr. Peng, CO-12 Working Group Chair, and Mr. Fedora, CP-8 Working Group Chair.

The final assessment will be submitted for RCC comment and Task Force on Coordination of Operation and Task Force on Coordination of Planning approval on April 8, 2022. The final assessment will be officially released following presentation at the May 4, 2022 NPCC Board meeting.

NPCC Task Force 2022-2023 Work Plan Overview

Mr. Adam asked each Task Force Chair to highlight their respective activities. He noted that additional information can be found in the Agenda package, which contains all the individual Task Force updates.

Task Force on Infrastructure Security and Technology (TFIST)

Mr. Vesely highlighted the following TFIST activities:

- ✓ The number one issue deals with security updates given the recent global activity. The TFIST has endorsed three security bulletins since the last RCC meeting:
 - 1) Apache Log4j Vulnerability Guidance,
 - 2) Zoho ManageEngine ServiceDesk Plus Vulnerability, and,
 - 3) CISA Alert: Understanding and Mitigating Russian State-Sponsored Cyber Threats to U.S. Critical Infrastructure.
- ✓ For critical infrastructure protection compliance, the following dates are important to note:
 - July 1, 2022 – Effective Date of CIP-012-1, Cyber Security – Communications between Control Centers;
 - October 1, 2022 - enforceable date for some supply chain changes from project 2019-03;
 - April 4, 2022 – comments due for Project 2016-02, Modifications to CIP Standards; and,
 - April 11, 2022 comments due for Project 2020-03, Supply Chain Low Impact Revisions.

Task Force on Coordination of Planning (TFCP)

Mr. Roedel highlighted the following TFCP activities:

- ✓ A Joint TFCP/TFCO Working Group is reviewing Directory No. 1. The Joint Working Group is making progress and is expected to continue meeting through 2022.
- ✓ A discussion on the contingency testing of live tank breakers identified that an interim revision to Directory No. 1 may be warranted before the comprehensive review is complete. The TFCP will



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
March 2, 2022

review its findings with the TFCO before proceeding to an open process posting and request RCC approval.

- ✓ TFCP recently reviewed a few modifications to some remedial action schemes, both limited impact, and type 1, and approved the new limited impact type 1.

Task Force on System Studies (TFSS)

Ms. Brake highlighted the following TFSS activities:

- ✓ Review of annual lists - at this RCC meeting, the 2021 BPS and DCT lists were approved and the 2021 RAS and UVLS lists were included in the Informational Items in the Agenda package. The UVLS is blank and has been blank for some time. The TFSS will evaluate if there is a compliance or reliability reason to continue the annual review of the UVLS list.
- ✓ A Remedial Action Scheme (RAS) was recently evaluated by TFSS for typing. The RAS could result in voltage collapse in a very confined area (radial load station). A year ago, prior to the NPCC Directory No. 7 revision to conform with the NERC Standard PRC-012, this RAS would have clearly been a Type III SPS, and all type III SPS are considered limited impact RAS in NPCC. This RAS has been reviewed and approved as a limited impact RAS by both TFSS and TFCP. Additional discussions are warranted at TFSS and TFCP to ensure the RAS review process in Directory 7 gives a consistent and appropriate outcome for similar situations.

Task Force on Coordination of Operation (TFCO)

Mr. Pollock highlighted the following TFCO activities:

- ✓ The CO-7 Working group is jointly working with CP-11 Working Group on the Directory No. 1 Triannual Review; topics being discussed include:
 - Double Circuit Tower criteria differences between NPCC and NERC
 - Modifications needed to Directory No. 1 to account for DER/VER resources
- ✓ The CO-1 Working group is discussing Directory No. 5 reserves sustainability with hybrid resources;
- ✓ The CO-11 Working Group is leading the Directory No. 8 Triannual Review;
- ✓ This year, the CO-8 Working Group will be leading Directory No. 2 Triannual Review; and,
- ✓ The TFCO is reviewing the cold weather report to identify status of NPCC's readiness and to identify areas of opportunities to mitigate any potential risks.

Task Force on System Protection (TFSP)

Mr. Babu highlighted the following TFSP activities:

- ✓ Reviews of facility presentations. One facility presentation did initiate a process review of Directory No. 7 regarding the typing of a Type 1 RAS;
- ✓ Analysis of protection system misoperation reports and follow up on resulting trends; and,
- ✓ Discussion of the FERC Order on Ambient Adjusted Ratings and the impact from a protection setting perspective.

FERC December 21, 2021, Order 881 - Managing Transmission Line Ratings (RM20-16)

Mr. Fedora indicated that the FERC Order 881, regarding transmission line ratings, is included in the Agenda package. The FERC Order requires:

- ✓ Implementation of ambient adjusted ratings and seasonal ratings that transmission providers would use for evaluating requests for near term transmission service and would use the seasonal ratings for evaluating other longer term transmission service request;
- ✓ RTOs and the ISOs establish and implement the system and procedures necessary to allow the transmission owners through electronically updating transmission line ratings at least hourly; and,



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
March 2, 2022

- ✓ Transmission providers use uniquely determined emergency ratings for contingency analysis, in the operations horizon and post contingency simulations.

Mr. Fedora added that subsequent to FERC Order 881, on February 17th FERC launched an inquiry to examine whether the use of Dynamic Line Ratings (DLRs), which are based on a wide range of weather and line-specific factors affecting the operation of electric transmission lines, would help ensure just and reasonable wholesale rates by improving the accuracy and transparency of line ratings. Comments are due 60 days after publication in the Federal Register.

Mr. Helton indicated that ISO-NE is reviewing the FERC Order and would be interested in hearing from other RTOs and ISOs.

Informational Items

Mr. Adam then referred the RCC to the Informational Items materials provided in the Agenda package.

With no other matters to consider, the RCC meeting was adjourned.

Next RCC Meeting Date	Location
June 8, 2022	[WebEx meeting]

Future RCC Meeting Dates	Location
September 14, 2022	[WebEx meeting]
December 6, 2022	[WebEx meeting]



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
March 2, 2022

Distribution of Approved Minutes

NPCC Full & General Member Representatives and Alternates

Members, NPCC Board of Directors

Members, NPCC Reliability Coordinating Committee

Members, NPCC Public Information Committee

Members, NPCC Compliance Committee

Members, NPCC Regional Standards Committee

Members, NPCC Task Force on Coordination of Operation

Members, NPCC Task Force on Coordination of Planning

Members, NPCC Task Force on Infrastructure Security and Technology

Members, NPCC Task Force on System Protection

Members, NPCC Task Force on System Studies

NPCC Officers

NPCC Staff

and,

Federal Energy Regulatory Commission – David Ortiz, David O’Connor, Juan Villar

La Régie de L’Énergie – Christian Garneau

Ontario Energy Board – Catherine Ethier

United States Department of Energy – David Meyer

New Brunswick Department of Energy and Mines – David Sollows

Nova Scotia Utility & Review Board – S. Bruce Outhouse, Q.C.