



November 16, 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 June 8, 2022 RCC Meeting

Sir / Madam:

Attached are the Minutes of the June 8, 2022 meeting of the NPCC Reliability Coordinating Committee, as approved at the September 14, 2022 RCC meeting.

Sincerely,

Michael R. Lombardi

Michael R. Lombardi
Director, Reliability Assessments

cc: NPCC Staff



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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 USA

Sector 1 - Transmission Owners

Central Hudson Gas & Electric Corporation	Damian Interrante - Alternate
Central Maine Power Company	Matt Sadler
Consolidated Edison Company of New York, Inc.	Martin Paszek - Alternate
Eversource Energy	George Wegh
Hydro-One, Inc.	Ajay Garg - Alternate
Long Island Power Authority	Anie Philip
National Grid USA	Abhinav Rawat
New Brunswick Power Corporation	Randy MacDonald
New York Power Authority	(proxy to Salvatore Spagnolo)
New York State Electric & Gas Corporation	(proxy to Dave Bradt)
Nova Scotia Power, Inc.	Chris Milligan - Alternate
Orange & Rockland Utilities, Inc.	Nick Kowalczyk
Rochester Gas & Electric Corporation	(proxy to Dave Bradt)
The United Illuminating Company	Dave Bradt
Vermont Transco	Hantz Presume

Sector 2 – Reliability Coordinators

Hydro-Québec TransÉnergie	Maxime Nadeau
ISO New England, Inc.	James Helton
New Brunswick Power Corporation	Scott Brown
New York ISO	Zach Smith
	Kevin DePugh - Alternate
Ontario IESO	Gabriel Adam

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

Consolidated Edison Company of New York, Inc.	Lincoln Burton - Alternate
Eversource Energy	Trevor Tessin
Hydro-Quebec Distribution	Abdelhakim Sennoun - Alternate
Long Island Power Authority	(proxy to Anie Philip)
National Grid	Mike Jones
New York Power Authority	(proxy to Salvatore Spagnolo)



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Sector 4 Generation Owners

Consolidated Edison Company of New York, Inc.	Helen Wang - Alternate
Dominion Energy, Inc.	Sean Bodkin
Long Island Power Authority	(proxy to Anie Philip)
New York Power Authority	Salvatore Spagnolo - Alternate
NextEra Energy Resources	Rigoberto Milla
Ontario Power Generation, Inc.	David Kwan - Alternate
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)
New York Power Authority	(proxy to Salvatore Spagnolo)
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
	Robert Knowlton - Alternate
New York State Department of Public Service	Humayun Kabir - Alternate

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

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

NPCC Staff

Brian Hogue	Information Systems & Security Management
Michael Lombardi	Director, Reliability Assessments
Jessica Hala	Vice President, Finance
Scott Nied	Vice President, Compliance
Andrey Oks	Director of Operations Coordination
Andreas Klaube	Manager, Probabilistic Assessment
Neeraj Lal	Manager, System Studies
Quoc Le	Manager, System Planning
Rafael Sahiholamal	Manager, System Protection
Ruida Shu	Manager, Reliability Standards
Ryan McSherry	Senior Engineer, Operations

Guests

Andrew Wilcox	New Brunswick Power Corporation
Dan Schwarting	ISO-New England, Inc.
Edward Roedel	Chair, Task Force on Coordination of Planning
Isen Widjaja	Independent Electricity System Operator
John Babu	Chair, Task Force on System Protection
John Charlton	Nova Scotia Power, Inc.



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Joy Brake	Chair, Task Force on System Studies
Ovidiu Vasilachi	Chair, Task Force on System Protection
Peter Huynh	Nova Scotia Power, Inc.
Steve Gould	Vice-Chair, Task Force on Coordination of Operation
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.

Antitrust Guidelines for NPCC Meetings

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

Safety Message

Mr. Klaube provided a safety message that identifying the heat stroke risk factors, symptoms, and actions to avoid and/or mitigate heat stroke events.

NPCC 2023 Business Plan & Budget Update

ERO Enterprise (NERC and Regional Entities) 2023 Budgets

Ms. Hala provided an overview of both the NPCC 2023 Business Plan and Budget and the ERO Enterprise 2023 Business Plan and Budget. A presentation was provided in the Agenda package. Ms. Hala identified the NPCC 2023 focus areas and the 2023 initiatives that are key drivers which require increases in NPCC resources. Ms. Hala reviewed the 2023 Business Plan and Budget development process and noted that following today's RCC meeting that she will be meeting with the FERC to review the ERO Enterprise draft #1 budgets. The development process is scheduled to conclude the end of August when NERC submits the ERO budget filing to the FERC and the Canadian Provincial Authorities.

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. Therefore, the two items for the 2021 meeting minutes were removed from the Consent Agenda.

An additional change was made to the Consent Agenda to include an update to the Task Force/Working Group Roster Changes for IST-5 Physical Security Working Group. Specifically:

IST-5 Physical Security WG

- ✓ Devin Heeney of NY Transco to serve as the representative.
- ✓ Andrew Welch of NY Transco to serve as an alternate.
- ✓ David Burns of National Grid USA to succeed Matt Probst as the representative.

The RCC approved the Agenda with these changes.



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May 12, 2022 NPCC DER/VER Forum

Mr. Shu noted that the NPCC DER/VER Forum is part of the NPCC's Strategic Corporate Plan and reflect the direction provided by the NPCC Board of Directors to continue outreach efforts with all of our stakeholders. Three forums are planned for this year.

The May 12 forum was focused on electric vehicle charging and the impact on the planning, forecasting, and modeling of the Bulk Power System. Presentations on this topic were received from Hydro Québec Trans Énergie, Eversource, National Grid, and NERC.

The remaining two DER/VER forums are planned for August 11, 2022 and October 13, 2022. The forums will be focused on various decarbonization topics, such as: building electrification.

WebEx Control Hub / Microsoft Teams

Mr. Hogue reported that WebEx is in the midst of changing its software which raises the possibility that NPCC may need to transition to another meeting software, such as: Microsoft Teams. To determine if the RCC membership can transition away from WebEx, if required, Mr. Hogue indicated that a survey will be sent to the RCC membership.

Consent Agenda

The Reliability Coordinating Committee unanimously approved the following Consent Agenda Items:

March 2, 2022 Meeting Minutes

The minutes were approved, as provided in the Agenda package, with editorial/grammatical changes/corrections noted at the meeting.

RCC Membership Changes

The following change to the RCC membership was approved:

Sector 4 – Generation Owners

Rigoberto Milla to replace Al Schriver as the representative for NextEra Energy.

Task Force/Working Group Roster Changes

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

Task Force on Coordination of Planning

- ✓ Steve Blackburn of Hydro-Quebec TransÉnergie to serve as an alternate.

Task Force on System Protection

- ✓ Eric Loiselle of Hydro-Quebec TransÉnergie to succeed Charif Moukarzel as the representative.

Task Force on Infrastructure Security & Technology

- ✓ Michael Russell of Massachusetts Municipal Wholesale Electric Company to serve as the representative.
- ✓ Michael Marciano of Utility Services of Vermont, LLC to succeed Jeff Sykes as an alternate.
- ✓ Anthony Pearce of Utility Services of Vermont, LLC to succeed Shreya Patil as an alternate.
- ✓ Carver Powers of Utility Services of Vermont, LLC to serve as an alternate.
- ✓ Collins Tazoh of Utility Services of Vermont, LLC to serve as an alternate.
- ✓ Jen McCabe of Utility Services of Vermont, LLC to serve as an alternate.



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- ✓ Sean Randles of Utility Services of Vermont, LLC to serve as an alternate.
- ✓ Jodi Crozzoli of the New York ISO to no longer serve as an alternate.
- ✓ Tom O'Neill of Hydro-Quebec TransÉnergie to no longer serve as an alternate.
- ✓ Tony McMullen of PSEG Fossil LLC to no longer serve as an alternate.
- ✓ Suzanne Black of Network & Security Technologies, Inc. to no longer serve as an alternate.
- ✓ Richard Ristaneo of Rochester Gas & Electric to serve as an alternate.

CO-2 System Operator Training Working Group

- ✓ Marie-Josée Darcy of Hydro-Québec to succeed Diane Laferriere as the representative.
- ✓ Josh Jacobi of the New York ISO to succeed Bob Perreault as the representative.
- ✓ Jason Marshall of the New Brunswick Power Corporation to succeed Justin Shumaker of ISO-New England, Inc. as the Vice Chair.
- ✓ Tom Turgeon of ISO-New England, Inc. to serve as an alternate.

CO-8 Systems Operations Managers Working Group

- ✓ Matt Vos of the Ontario IESO to serve as an alternate.

CO-10 System Operational Tools Working Group

- ✓ Maxime Nadeau of Hydro-Quebec TransÉnergie to no longer serve as an alternate.
- ✓ Allen Gao of the Ontario IESO to succeed Jennifer Tsai as an alternate.
- ✓ Pablo Gutierrez of the Ontario IESO to no longer serve as an alternate.
- ✓ Osman Bileya of ISO-New England, Inc. to serve as an alternate.

CO-11 Restoration Working Group

- ✓ Abishek Penti of the New York ISO to serve as an alternate.
- ✓ Jason Marshall of the New Brunswick Power Corporation to serve as an alternate.
- ✓ Tim Hicks of the New Brunswick Power Corporation to serve as an alternate.
- ✓ Mark Townsend of Hydro One Inc. to succeed Rick Johnson as the representative.
- ✓ Simon Crank of Hydro One Inc. to succeed Mark Townsend as the representative.
- ✓ Mark Townsend of Hydro One Inc. to succeed Rick Johnson as an alternate.

CO-14 Operations Load Forecast Working Group

- ✓ Joe Gredder of National Grid to succeed Trevor Brudz as the representative.
- ✓ Trevor Brudz of National Grid to serve as an alternate.

CP-8 Working Group

- ✓ Andreas Klaube of NPCC to succeed Phil Fedora of NPCC as Chair; Phil Fedora to serve as an alternate.
- ✓ Laura Popa of the New York ISO to serve as the representative.
- ✓ Yvonne Huang of the New York ISO to serve as the alternate.

SP-7 Protection Systems Misoperation Review Working Group

- ✓ Ed Chen of the Consolidated Edison Company of New York, Inc. to serve as an alternate.

SS-37 Base Case Development Working Group

- ✓ Junjie Zhu of ISO-New England, Inc. to serve as an alternate
- ✓ Nathan Durnaik-Ouellette of Hydro-Quebec TransÉnergie to succeeds Mathieu Péroquin as the representative.
- ✓ Mathieu Péroquin of Hydro-Quebec TransÉnergie to succeed Nathan Durnaik-Ouellette as an alternate.

SS-38 Inter-Area Dynamic Analysis Working Group

- ✓ Zeeshan Ahmed of ISO-New England, Inc. to succeed Kaushal Kumar as an alternate.

IST-5 Physical Security WG

- ✓ Devin Heeney of NY Transco to serve as the representative.
- ✓ Andrew Welch of NY Transco to serve as an alternate.
- ✓ David Burns of National Grid USA to succeed Matt Probst as the representative.



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2021 Ontario Intermediate Area Transmission Review

Approved as provided in the Agenda package.

Approval Items

2021 New England Comprehensive Transmission Review

Mr. Schwarting presented the 2021 New England Comprehensive Transmission Review provided in the Agenda package. The New England Comprehensive Transmission Review assessed the reliability of the New England Area Bulk Power System by examining the impact of changes in forecasted system conditions and planned facilities. The New England comprehensive transmission assessment concluded that “The New England transmission system, as planned through 2026, remains in conformance with NPCC Directory No. 1.”

The ISO New England presented the 2021 New England Comprehensive Area Transmission Review report to the Task Force on System Studies (TFSS) at the March 2022 TFSS meeting. TFSS agreed that the Bulk Power System planned for New England is in conformance with NPCC Directory No. 1.

The ISO New England presented the 2021 New England Comprehensive Area Transmission Review report to the Task Force on Coordination of Planning (TFCP) at the May 10-11, 2022 TFCP meeting. Based on its review, TFCP recommended the RCC approval of the 2021 New England Comprehensive Area Transmission Review report.

The RCC then unanimously approved the 2021 New England Comprehensive Area Transmission Review provided in the Agenda package.

2021 Maritimes Area Comprehensive Transmission Review

Mr. Charlton presented the Nova Scotia portion and Mr. Wilcox presented the New Brunswick portion of the 2021 Maritimes Comprehensive Transmission Review provided in the Agenda package. The Maritimes Comprehensive Transmission Review assessed the reliability of the Nova Scotia and New Brunswick Bulk Power Systems by examining the impact of changes in forecasted system conditions and planned facilities. The conclusion for the Nova Scotia portion of the Maritimes Comprehensive Transmission Review is “the Nova Scotia Bulk Power System for the study year 2026 conforms to the NPCC Directory No. 1.” The conclusion for the New Brunswick portion of the Maritimes comprehensive transmission assessment is “the NB BPS as designed and studied for the year 2026 is in conformance with the NPCC Regional Reliability Reference Directory No. 1.”

Both Nova Scotia Power and New Brunswick Power presented their portion of 2021 Maritimes Comprehensive Area Transmission Review report to the Task Force on System Studies (TFSS) at the March 2022 TFSS meeting. TFSS agreed that the Bulk Power System planned for the Maritimes is in conformance with NPCC Directory No. 1.

Nova Scotia Power Inc. and New Brunswick Power representatives presented their portion of the 2021 Maritimes Comprehensive Area Transmission Review report to the Task Force on Coordination of Planning (TFCP) at the May 10-11, 2022 TFCP meeting. Based on its review of



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the Nova Scotia portion and the New Brunswick portion, TFCP recommended the RCC approval of the 2021 the Maritimes Comprehensive Area Transmission Review report.

The RCC then unanimously approved the 2021 Maritimes Comprehensive Area Transmission Review provided in the Agenda package.

Items for Endorsement

Goal IA-4 – Present Scope and Goals Proposal for a Manual Load Shedding Tabletop Exercise

NPCC 2021 Corporate Goal IA-4 specifies the development of a manual load shedding tabletop exercise for NPCC system operators and load shedding entities responsible for determining/designing load shedding programs.

At its May 11-12, 2022 meeting, the Task Force on Coordination of Operation (TFCO) reviewed the proposed scope and goals for a manual load shedding tabletop exercise for NPCC system operators and load shedding entities responsible for determining/designing load shedding programs. To conduct a thorough execution and comprehensive evaluation of the manual load shedding tabletop exercise, each of the TFCO members and participants were asked to provide their respective input on the scope, topics, and goals of the exercise they believe would benefit the overall goal effort. NPCC staff coordinated with each of the TFCO members individually and consolidated their feedback into the presented scope and goals for the tabletop exercise. The TFCO recommendation is for the RCC endorsement of the scope and goals proposal for the manual load shedding tabletop exercise.

Mr. Oks presented the scope and goals proposal for the tabletop exercise, as provided in the Agenda package, for RCC endorsement.

The RCC then unanimously endorsed the scope and goals proposal for the tabletop exercise provided in the Agenda package.

Policy Discussion

May 4, 2022 NPCC Board Meeting

Mr. Lombardi noted that Ms. Hala presented draft one of the NPCC 2023 Business Plan and Budget. As presented earlier in this meeting, Ms. Hala identified the NPCC 2023 focus areas and the 2023 initiatives that are key drivers which require increases in NPCC resources.

Mr. Lombardi reported that the NPCC Board was presented with the results of the NPCC 2022 Summer Reliability Assessment which forecasts the NPCC Region will have an adequate supply of electricity this summer. Mr. Lombardi indicated that the NPCC media release, “Summer Reliability Assessment Forecasts Adequate Electricity Supplies,” was published following the NPCC Board meeting.



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May 19, 2022 NERC Energy Reliability Assessment Task Force Informational Webinar

Mr. Lombardi reported that the Energy Reliability Assessment Task Force (ERATF) created two SARs (i.e., Planning and Operations/Operational Planning) to enabling stakeholders to identify energy deficit risks from energy-constrained resources and develop mitigations. The May 19, 2022 informational webinar was held to provide details on the new Planning and the Operations/Operational Planning SARs, and also to answer questions that industry has concerning the revisions. Links to the ERATF webpage and the webinar Q&A are provided in the Agenda package.

May 11-12, 2022 NERC Members Representative Committee / Board of Trustees Meeting(s)

Mr. Lombardi reported that the NERC MRC meeting was held on May 11, 2022 and focused on industry actions to address emerging risk. Particularly, the NERC Board had requested MRC policy input on:

1. How can the ERO Enterprise and industry work together to address fast emerging risks to the reliable operation of the BPS with more effective and certain outcomes across North America?
2. Specifically for the inverter-based resource challenges, what other actions should the ERO Enterprise take to ensure known reliability gaps with BPS-connected inverter-based resource performance are addressed?

Mr. Clayton indicated that the New York is very interested in the inverter-based resource challenges and the actions planned to address this risk. Specifically, what standards do we have in place to interconnect IBR resources? IEEE Standard 2800 was approved earlier this year. The New York State Reliability Council is working with the NYISO to adopt IEEE Standard 2800 as a mandatory interconnection requirement. Mr. Clayton concluded that time is of the essence, and we need interconnections that are meeting a consistent standard.

Mr. Lombardi reported that the NERC Board of Trustees meeting was held on May 12, 2022 and focused on resources, agility to address emerging risks; previews summer assessment, and the State of Reliability report.

Mr. Robb noted, at the NERC Board of Trustees meeting, that emerging risks are coming at us faster and with more frequency than ever before. Mr. Robb stated that to enhance the NERC proactive approach to address emerging risks, NERC has developed a three-year plan to:

- ✓ Make needed investments today where we can most influence change; influence change falls across four areas of focus: energy, security, agility, and sustainability.
- ✓ Be responsive to what NERC is hearing from industry – leverage technology in a powerful way and continues to drive efficiency and effectiveness, while embedding risk-informed thinking into our programs and processes.

Mr. Lombardi reported additional activities at the NERC Board of Trustees meeting included reports on the 2023 Business Plan and Budget, the NERC 2022 Summer Reliability Assessment, and the NERC 2022 State of Reliability report. The budget report given earlier in this meeting highlights the information provided in the budget report at the NERC Board of Trustees meeting.

Mr. Lombardi indicated that the NERC 2022 Summer Reliability Assessment did not identify any reliability risks in the NPCC region. The summer assessment focuses on the unprecedented



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conditions that are challenging grid resilience; most notably: the above-normal temperatures and drought conditions over the western United States and Canada and the resulting elevated or high risk of energy shortfalls. The 2022 Summer Reliability Assessment was released May 18, 2022.

Mr. Lombardi reported that the preliminary findings of the NERC 2022 State of Reliability report were previewed at the NERC Board of Trustees meeting; despite unprecedented challenges to BES reliability in 2021, grid operators were able to maintain reliability with one notable exception being the February 2021 cold weather outages in Texas and the south central United States. The NERC staff and NERC Performance Analysis Subcommittee are conducting an informational webinar on June 16, 2022 and the 2022 State of Reliability report is scheduled to be released in mid-July.

June 8-9, 2022 NERC Reliability and Security Technical Committee Meeting(s)

Mr. Oks noted that the two Standard Authorization Requests created by the Energy Reliability Assessments Task Force were covered previously in this meeting and then led a discussion of the following agenda topics scheduled for consideration at the June 8-9, 2022 NERC Reliability and Security Technical Committee (RSTC) Meeting:

White Paper: BPS Reliability Perspectives for Distributed Energy Resource (DER) Aggregators – the NERC System Planning Impacts from Distributed Energy Resources Working Group (SPIDERWG) created this White Paper to provide bulk power system reliability perspectives and considerations regarding distributed energy resource aggregation considering Federal Energy Regulatory Commission (FERC) Order No. 2222, which introduces the concept of DER aggregation in wholesale electricity markets. At the June 8, 2022 RSTC meeting, the SPIDERWG is seeking RSTC approval of the White Paper.

White Paper: Recommendations for Simulation Improvement and Techniques Related to DER Planning – the NERC System Planning Impacts from Distributed Energy Resources Working Group 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. This White Paper details the findings of the SPIDERWG review and makes recommendations for actions that should be taken to address identified issues. At the June 8, 2022 RSTC meeting, the SPIDERWG is seeking RSTC approval of the White Paper.

Standard Authorization Request (SAR): EMT Models in NERC MOD, TPL, and FAC Standards – the rapid transformation towards high penetrations of inverter-based resources has Transmission Planners and Planning Coordinators concerned about the lack of accurate modeling data and the need to perform electromagnetic transient (EMT) studies during the interconnection process and long-term planning horizon. This SAR proposes including EMT models and studies in planning-related NERC Standards to:

- ✓ Address the reliability-related need and benefit by ensuring TPs and PCs have accurate models necessary to adequately conduct reliability assessments under increasing levels of inverter-based resources.
- ✓ Require the collection of EMT models by applicable entities and TPs and PCs to conduct EMT studies where needed.



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The need for EMT models is based on NERC analyzing widespread solar loss events for many years dating back to the Blue Cut Fire disturbance in 2016. At the June 8, 2022 RSTC meeting, IRPS is seeking RSTC endorsement to submit the SAR to the NERC Standards Committee.

Ms. Philip reinforced that the EMT studies are critical for the reliable integration of non-synchronous resources. However, EMT studies require specialized technical expertise and require a longer time to perform than traditional studies. Therefore, the requirements and process for the use of EMT studies need to be well thought out.

Discussion Items

Goal IB-1 – Assess gas-electric interdependencies

Mr. Oks reported that this effort, which builds on the 2021 activities to develop a gas-electric model and analytical approach for NPCC gas-electric risk assessment, enhances the NPCC assessment of gas-electric independencies through cross sector and cross functional team input into “assumptions to use, model development and validation as well as contingency development and results”, with the target goal of identifying future gas-electric interdependencies with recommendations for mitigating actions.

Mr. Oks indicated that NPCC is currently populating 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 risks.

NPCC Goal II-1 Develop Future Revisions to NPCC Directory No. 1

Mr. Shu noted that NPCC Corporate Goal II-1 requires the development of future revisions to NPCC Directory No. 1 to address reliability contributions and challenges of changing technologies and load characteristics for RCC and Regional Standards Committee (RSC) endorsement by 12/22.

Mr. Shu indicated that an initial draft whitepaper addressing this goal will be presented to the TFCP and the TFCO for review and comment by the end of June. The draft will identify emerging reliability issues, including resource adequacy, energy adequacy during all hours, fuel supply, and essential reliability services to inform recommendations to guide a future Task Force review of the Directory No. 1 criteria.

After the Task Force review, the first draft of the report will be presented to the RCC and the Regional Standards Committee for a 30-day comment period and a final draft will be submitted to the RCC and the RSC for consideration at their December 2022 meetings.

NPCC Goal II-2 State and Provincial Regulator Outreach - Quarterly Status Report

Mr. Shu noted that NPCC Corporate Goal II-2 calls for the completion of three briefings with State and Provincial Regulators on NERC and NPCC reliability assessments to promote awareness of effective regional transmission planning in the face of the changing resource mix and also the completion of a fourth briefing to identify specific Northeast emerging reliability risks.



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Mr. Shu reported that two briefings have been completed:

- ✓ February 25, 2022 – a forum was conducted which presented NERC’s 2021 Long-Term Reliability Assessment along with NPCC’s Reliability Assessment and Performance activities.
- ✓ April 22, 2022 – an outreach session focused on Automatic Underfrequency Load Shedding (UFLS) and the impact of Distributed Energy Resources (DER) on the design and operation of UFLS in the Northeast was conducted.

Mr. Shu reported that the third briefing is scheduled for June 10, 2022, to present the findings of the NERC 2022 Summer Reliability Assessment and the NPCC 2022 Regional Summer Assessment activities.

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 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. The significant activities include:
 - Streamlining of Directory No. 1, considering recent NERC reliability standard revisions;
 - Addition of inverter-based resource requirements;
 - Addressing modifications to limit impact Remedial Action Schemes;
 - Contingency testing of live-tank breakers.

Mr. Smith raised the concern that conducting Area Transmission Reviews could be burdensome and duplicate other assessments and asked if there is any discussion about revising the Area Transmission Review requirement in Directory No. 1 regarding this issue. Mr. Roedel indicated that TFCP does recognize that other studies are being conducted that may satisfy the Area Transmission Review requirements of Directory No. 1 and that TFCP is looking into methods to credit other studies to satisfy the Directory No. 1 Area Transmission Review requirement. Mr. Roedel provided a reminder that the Directory No. 1 changes will have at least one comment period before the changes are finalized. Mr. Roedel encouraged attendees to provide their review and comments during the future comment period(s).

Mr. Helton asked about the status of contingency testing of live-tank breakers prior to the official comment period for Directory No. 1. Mr. Roedel indicated that the current plan is to solicit interim comments on the contingency testing of live-tank breakers prior to the official comment period for Directory No. 1.

Task Force on Coordination of Operation (TFCO)

Mr. Gould highlighted the following TFCO activities:

- ✓ Based on the triannual review of Directory No. 8, System Restoration, the proposed TFCO revisions have been posted to the NPCC Open Process for a forty-five day comment period through July 19, 2022.
- ✓ Based on a Request for Criteria Clarification on the reliability criteria within NPCC Directory No. 5, Reserve, the proposed TFCO response to provide clarification in conjunction with



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Requirement R6 has been posting to the NPCC Open Process for a forty-five day comment period through July 17, 2022.

- ✓ The TFCO is reviewing the cold weather report and its recommendations to perform a gap analysis for each entity to complete regarding applicability and completion of the recommendations, as necessary.

Task Force on Infrastructure Security and Technology (TFIST)

Mr. Vesely highlighted the following upcoming standard activities:

- ✓ CIP-012-1, *Cyber Security, Communications between Control Centers*, becomes effective July 1, 2022 and reminder that there is an NPCC TFIST whitepaper for CIP-012-1 posted to the NPCC web site.
- ✓ Supply chain – updates to CIP-005, CIP-010 and CIP-013 become effective October 1, 2022 with expanded scope adding Electronic Access Control or Monitoring System and Physical Access Control System.
- ✓ Supply Chain Low Impact Revisions – the Industry did not approve second posting; TFIST is expecting the NERC Standards Drafting Team to reach out.
- ✓ An additional ballot period for NERC Project 2016-02, Modifications to CIP Standards, regarding Virtualization is expected to be posted later this summer.

Mr. Adam referred the RCC to the TFIST activities in included in the Agenda package.

Task Force on System Protection (TFSP)

Mr. Vasilachi highlighted the following TFSP activities:

- ✓ Review completion for twenty-two proposed modified and new protection Systems plus 3 Type I Remedial Action Schemes.
- ✓ Review of the draft Standard Authorization Request for PRC-004, *Protection System Misoperation Identification and Correction*, to address gaps in the lack of analysis, identification, and corrective action plans for Misoperations at inverter-based resource facilities.
- ✓ Analysis of protection system misoperation reports, follow up on resulting trends, recognition of best practices and identification of lessons learned.

Task Force on System Studies (TFSS)

Ms. Brake highlighted the following TFSS activities:

- ✓ Retired the UVLS list after a review into the requirements for the list concluded that there are no standards or compliance requirement to maintain a list; the NPCC UVLS list has no entries at this time.
- ✓ Reviewing the effects of NERC Reliability Standard FAC-014-3, *Establish and Communicate System Operating Limits*, in preparation of its April 1, 2024 effective date due to concerns of Requirements 6 and 7.

Informational Items

Mr. Adam referred the RCC to the Informational Items materials provided in the Agenda package and called for questions, if any.

Mr. Helton inquired if there was more information from the SP-7 Working Group on Protection System regarding the six reported Remedial Action Scheme operations in Q4 2021, the three reported misoperations on Limited Impact Remedial Action Schemes and the one misoperation on Type I Remedial Action Scheme. Mr. Vasilachi responded that only limited information was



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available at the time of the RCC meeting report and that the SP-7 Working Group will provide Mr. Helton detailed information following this RCC meeting.

Future RCC Meeting

Mr. Adam indicated that an additional meeting has been tentatively added to facilitate wrap up the end of the year activities (such as Corporate Goals), if needed.

Additionally, Mr. Adam noted that like today's RCC meeting, the September 14, 2022 and December 6, 2022 RCC meeting are scheduled to overlap with the NERC Reliability and Security Technical Committee (RSTC) meetings. Mr. Adam indicated he will work with NPCC staff to look at scheduling RCC meetings to avoid an overlap with the NERC RSTC and other meetings.

Mr. Helton asked when the RCC meeting will return to in-person meetings. Mr. Adam indicated that currently there are not any plans to participate in-person; however, Mr. Adam is in favor of a survey to determine if the RCC members desire to meet in-person for one of the December meetings. Mr. Oks indicated it would also be helpful logistically to know if a member's facility is capable of and willing to hosting an RCC meeting.

Next RCC Meeting Date	Location
September 14, 2022	[WebEx meeting]

Future RCC Meeting Dates	Location
December 6, 2022	[WebEx meeting]
December 16, 2022	[WebEx meeting]

Other Matters

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



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
June 8, 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 – TBD

New Brunswick Department of Energy and Mines – David Sallows

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