



September 13, 2023

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 7, 2023 RCC Meeting

Sir / Madam:

Attached are the Minutes of the June 7, 2023 meeting of the NPCC Reliability Coordinating Committee, as approved at the September 12, 2023 RCC meeting .

Sincerely,

Michael R. Lombardi

Michael R. Lombardi
Director, Reliability Assessments

cc: NPCC Staff



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
June 7, 2023

Ms. Philip called the meeting of the Reliability Coordinating Committee (RCC), held at the New York Power Authority White Plains, New York to order at 10:00 am.

Attendance

Officers of the Reliability Coordinating Committee

Anie Philip, Chair

Michael Jones, Co-Vice Chair

Maxime Nadeau, Co-Vice Chair

Long Island Power Authority

National Grid USA

Hydro-Québec

Sector 1 - Transmission Owners

Central Hudson Gas & Electric Corporation

Central Maine Power Company

Consolidated Edison Company of New York, Inc.

Eversource Energy

Hydro-One, Inc.

Long Island Power Authority

National Grid USA

New Brunswick Power Corporation

New York Power Authority

New York State Electric & Gas Corporation

Nova Scotia Power, Inc.

Orange & Rockland Utilities, Inc.

Rochester Gas & Electric Corporation

The United Illuminating Company

Vermont Electric Power Company, Inc.

Michael E. Ridolfino

Damian Interrante - Alternate

(via written proxy)

Martin Paszek - Alternate

George Wegh

Ajay Garg - Alternate

Anie Philip

Abhinav Rawat

Randy MacDonald

(proxy to Frank Ronci)

(via written proxy)

Chris Milligan

(proxy to Martin Paszek)

(via written proxy)

(via written proxy)

Frank Etori - Alternate

Sector 2 – Reliability Coordinators

Hydro-Québec

Ontario IESO

ISO New England, Inc.

New Brunswick Power Corporation

New York ISO

Maxime Nadeau

Gabriel Adam

James Helton

Scott Brown

Zach Smith

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

Entities

Consolidated Edison Company of New York, Inc.

Eversource Energy

Hydro-Québec

Long Island Power Authority

National Grid USA

New York Power Authority

Lincoln Burton - Alternate

David Cloutier - Alternate

Hakim Sennoun - Alternate

(proxy to Anie Philip)

Mike Jones

Gian DeLuca

Andrew Stewart - Alternate



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Sector 4 Generation Owners

Consolidated Edison Company of New York, Inc.	(proxy to Martin Paszek)
Dominion Energy, Inc.	Sean Bodkin
Long Island Power Authority	(proxy to Anie Philip)
New York Power Authority	Frank Ronci
	Salvatore Spagnolo - Alternate
NextEra Energy Resources	Rigoberto Milla
Ontario Power Generation	David Kwan - Alternate
Talen Energy Marketing	(via written proxy)
Vistra Energy Corporation	Ken Stell

Sector 5 – Marketers, Brokers, and Aggregators

Consolidated Edison Company of New York, Inc.	(proxy to Martin Paszek)
Long Island Power Authority	(proxy to Anie Philip)
New York Power Authority	Christine Schmitt
	Fernando Granitto - Alternate
Utility Services of Vermont, LLC	(via written proxy)

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

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

NPCC Staff

Andrey Oks	Director of Operations Coordination
Brian Hogue	Information Systems & Security Management
Faisal Nahian	Senior Network and Infrastructure Engineer
Gerry Dunbar	Director, Reliability Standards and Criteria
Jessica Hala	Vice President, Finance and Treasurer
Karie Barczak	Senior Compliance Engineer
Khatune Zannat	Senior Reliability Assessment Engineer
Michael Lombardi	Director, Reliability Assessments
Neeraj Lal	Manager, System Studies
Quintin Lee	Manager, Events Analysis
Rafael Sahiholamal	Manager, System Protection
Lacy Skinner	Senior Engineer, Operations Coordination
Ryan McSherry	Senior Operations Engineer

Guests

Vincent Fihey	Chair, Task Force on Coordination of Planning
Ovidiu Vasilachi	Vice-Chair, Task Force on System Protection
William Vesely	Chair, Task Force on Infrastructure Security & Technology
Andrea VanLieu	Consolidated Edison Company of New York, Inc.



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Dan Taft	Consolidated Edison Company of New York, Inc.
Isen Widjaja	Independent Electricity System Operator
Nicole Pastore	Consolidated Edison Company of New York, Inc.
David Rivera	New York Power Authority
Zahid Qayyun	New York Power Authority
Patricia Lombardi	New York Power Authority
Brian Saez	New York Power Authority
Zakia El Omari	Vermont Electric Power Company, Inc

Introduction

Ms. Philip called the meeting to order at 10:00 AM, noted that the meeting is a hybrid meeting and gave thanks to the New York Power Authority for hosting the in-person meeting.

Mr. Ronci welcome the in-person participants to the New York Power Authority and provided a facility briefing on the building layout, logistics, and emergency procedures.

Attendees, both in-person and on the phone, introduced themselves by name and company affiliation.

Antitrust Guidelines for NPCC Meetings

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

Safety Message

Mr. Lal provided a safety message on parking lot situation awareness and safety.

Quorum

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

Sector 1 - Transmission Owners

Brian Evans-Mongeon - Utility Services of Vermont, LLC
Edward Roedel - The United Illuminating Company
Matt Saddler - Central Maine Power Company
Nicholas Poluch - Talen Energy Supply, LLC.
Tim Lynch - New York State Electric & Gas Corp.
Will Nichols - Rochester Gas & Electric

President & CEO Report

ERO Enterprise (NERC and Regional Entities) 2024 Budgets

Ms. Hala provided an overview of both the NPCC 2024 Business Plan and Budget and the ERO Enterprise 2024 Business Plan and Budget. A presentation was provided in the Agenda package. Ms. Hala identified the NPCC 2024 focus areas and the 2024 initiatives that are key drivers which require increases in NPCC resources. Ms. Hala reviewed the 2024 Business Plan and Budget development process and noted that following today's RCC meeting that she will be



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meeting with the FERC to review the ERO Enterprise draft No. 1 budgets. The NPCC Board of Directors will review the 2024 budget draft for approval at its June 21, 2023 meeting.

Chair Report

Agenda

Ms. Philip reviewed the agenda provided in the agenda package. The content of the agenda was discussed and unchanged.

NPCC Office

Mr. Lombardi reported on the NPCC office relocation. NPCC is staying in the same building at 1040 Avenue of the Americas, New York, NY but moving from the tenth floor to the fourth floor. The fourth floor office is expected to be available on July 1, 2023. The new fourth floor office is approximately half the space of the tenth floor space with a smaller Boardroom; NPCC staff will ensure that the Boardroom space is available for hosting task force and working group meetings when needed.

NPCC Document Classification and Handling Procedure

Messrs. Lombardi and Nahian indicated that the ERO Enterprise developed a new data classification and handling protocol to properly safeguard and share data across the enterprise. The new protocols are being phased in across the ERO Enterprise. NPCC rolled out training to staff in April, and the new classifications labels and handling requirements became effect for NPCC on May 1. The new protocol classifies data into four categories:

- ✓ Restricted-Confidential
- ✓ Confidential
- ✓ Limited Disclosure
- ✓ Public

Mr. Nahian provided information about the new classifications and noted that specific guidance will be provided as needed.

NPCC Portal

Mr. Nahian provided a status update on the NPCC consolidation of its existing documents sharing platforms into a new NPCC portal that uses SharePoint online to enhance the security and monitoring capabilities.

He reviewed the NPCC Portal Implementation Timeline and detailed the Proposed Sharefile to Portal Migration Dates that are scheduled in June 2023. Both the timeline and June scheduled implementation dates are included in the agenda package.

April 27, 2023 and May 25, 2023 NPCC DER/VER Forum

Mr. Dunbar indicated the NPCC Regional Standards Committee continues to host DER/VER Forums on relevant decarbonization topics. The Forums are part of 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.

On April 27, 2023, a DER/VER Forum on the challenges of Transmission Integration was conducted. The session featured speakers from EPRI, PSE&G, Americans for a Clean Energy Grid (ACEG) and the Department of Energy's Office of Grid Deployment.



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Additionally, on May 25, 2023, a DER/VER Forum on IEEE 2800-2022, *IEEE Standard for Interconnection and Interoperability of Inverter-Based Resources (IBRs) Interconnecting with Associated Transmission Electric Power Systems*, was conducted. Presentations from ISO-New England, Pacific Northwest National Laboratory (PNNL) and Walling Energy Systems Consulting were provided.

Lastly, it was noted that the future upcoming DER/VER Forums are scheduled for August 10, 2023 and October 2023.

Mr. Dunbar noted that all DER/VER Forum presentations and recordings are posted on the NPCC public website.

NPCC 2023 Corporate Reliability Goal II-2 - IEEE 2800

Mr. Dunbar reported that NPCC 2023 Corporate Goal II-2 STD calls for the development of proposed recommendations to incorporate provisions of IEEE 2800-2022, *IEEE Standard for Interconnection and Interoperability of Inverter-Based Resources (IBRs) Interconnecting with Associated Transmission Electric Power Systems*, into the applicable NPCC Criteria for RCC and RSC input.

NPCC Staff and its consultant will review IEEE 2800-2022 and identify potential enhancements to the criteria in the functional areas of Protection, Operations (Reserve and Restoration) and Planning (Modeling and Verification).

The summary review of IEEE 2800-2022 and the draft recommendations, in accordance with Goal II-2 STD, will be provided to the RCC and RSC for input during a 30-day comment period to be conducted in September 2023.

Consent Agenda

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

March 1, 2023 RCC Meeting Minutes

Approved as provided in the agenda package.

RCC Roster Changes

The following changes to the RCC membership were approved:

Sector 2 - Reliability Coordinators

- ✓ Kevin DePugh to no longer serve as an alternate for the New York Independent System Operator.

Sector 4 - Generator Owners

- ✓ Nicholas Poluch to succeed Scott Etnoyer as the representative for Talen Energy Supply, LLC.
- ✓ Colleen Dolan-VanZandt to succeed Nicholas Poluch as the alternate for Talen Energy Supply, LLC.
- ✓ Bendong Sun of Bruce Power will serve as the representative.

Task Force/Working Group Roster Changes

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

Task Force on Coordination of Planning

- ✓ Xia Jiang of New York Power Authority to succeed Sunil Palla as an alternate representative.



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- ✓ Yves Albert of New Brunswick Power to succeed Andrew Wilcox as an alternate representative.

Task Force on Coordination of Operation

- ✓ Jean-Sebastien Labbé of Hydro Québec (RC) will serve as an alternate representative.
- ✓ Josh Netherton of MISO will no longer serve as a representative.
- ✓ Lacy Skinner of Northeast Power Coordinating Council will serve as an alternate representative.

Task Force on System Protection

- ✓ Michael Colby of PPL will no longer serve as a primary representative.

Task Force on System Studies

- ✓ Kevin DePugh of New York ISO will no longer serve as an alternate representative.

Task Force on Infrastructure Security & Technology

- ✓ Suzanne Black of Network & Security Technologies, Inc. will serve as an alternate representative.
- ✓ Carlos Guadron of New York Power Authority will serve as an alternate representative.
- ✓ Ryan Lebel of Utility Services of Vermont, LLC will no longer serve as an alternate representative.

CO-1 Control Performance Working Group

- ✓ Lacy Skinner of Northeast Power Coordinating Council will serve as an alternate representative.

CO-2 System Operator Training Working Group

- ✓ Justin Shumaker of ISO New England will no longer serve as the Chair.
- ✓ Jason Marshall of New Brunswick Power will no longer serve as the Vice Chair.
- ✓ Jonathan Sherrard of New Brunswick Power to succeed Jason Marshall as the primary representative.
- ✓ Ryan Smith of ISO New England to succeed Justin Shumaker as the primary representative.
- ✓ Lacy Skinner of Northeast Power Coordinating Council will serve as the primary representative.

CO-8 Systems Operations Managers Working Group

- ✓ Lacy Skinner of New York Independent System Operator will no longer serve as an alternate representative.
- ✓ Lacy Skinner of Northeast Power Coordinating Council will serve as an alternate representative.
- ✓ Troy McLaughlin of ISO New England will serve as an alternate representative.
- ✓ Josh Netherton of MISO will no longer serve as a representative.

CO-10 System Operational Tools Working Group

- ✓ Lacy Skinner of Northeast Power Coordinating Council will serve as an alternate representative.

CO-11 Restoration Working Group

- ✓ Tim Hicks of New Brunswick Power to succeed Ron Daigle as the primary representative.
- ✓ Jason Marshall of New Brunswick Power will serve as an alternate representative.
- ✓ John Antonakos of Independent Electricity System Operator will no longer serve as an alternate representative.
- ✓ Declan Cahill of New York Independent System Operator to succeed Abishek Penti as the primary representative.
- ✓ Rajasekhar Reddy Dontireddy of New York Independent System Operator will serve as an alternate representative.
- ✓ David Ross of Eversource Energy will serve as the primary representative.
- ✓ Lacy Skinner of Northeast Power Coordinating Council will serve as the primary representative.

CO-12 Operations Planning Working Group

- ✓ Khatune Zannat of NPCC to serve as an observer.

CO-14 Operations Load Forecast Working Group

- ✓ Tim Hicks of New Brunswick Power will no longer serve as an alternate representative.
- ✓ Anthony Ionno of Independent Electricity System Operator will serve as an alternate representative.



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- ✓ Marcus Smith of PJM will serve as an observer.
- ✓ Lacy Skinner of Northeast Power Coordinating Council will serve as an alternate representative.

CP-8 Working Group on the Review of Resource and Transmission Adequacy

- ✓ Mikaela Lucas of New York ISO to serve as an observer.
- ✓ Khatune Zannat of NPCC to serve as an observer.

SS-37 Base Case Development Working Group

- ✓ Nathan Gomes of the Independent Electricity System Operator will serve as an alternate representative.

SS-38 Working Group on Inter-Area Dynamic Analysis

- ✓ Sandra Gorgey of Nova Scotia Power, Inc. will serve as an alternate representative.

TFSP Scope Revision

Approved as provided in the agenda package.

NPCC Directory No. 1 Implementation Plan – Extension Request

Approved as provided in the agenda package.

Approval Agenda

2022 Ontario Comprehensive Area Transmission Review

Mr. Widjaja presented the 2022 Ontario Comprehensive Area Transmission Review provided in the Agenda package. The Ontario Comprehensive Area Transmission Review assessed the reliability of the Ontario Area Bulk Power System by examining the impact of changes in forecasted system conditions and planned facilities. The Ontario comprehensive transmission assessment concluded that the Ontario transmission system, as planned through 2027, remains in conformance with NPCC Directory No. 1.

The Ontario IESO presented the 2022 Ontario Comprehensive Area Transmission Review report to the Task Force on System Studies (TFSS) at the March 2023 TFSS meeting. TFSS agreed that the Bulk Power System planned for Ontario is in conformance with NPCC Directory No. 1.

The Ontario IESO presented the 2022 Ontario Comprehensive Area Transmission Review report to the Task Force on Coordination of Planning (TFCP) at the May 9 -10, 2023 TFCP meeting. TFSS agreed that the Bulk Power System planned for Ontario is in conformance with NPCC Directory No. 1. Based on its review, TFCP recommended the RCC approval of the 2022 Ontario Comprehensive Area Transmission Review report.

The RCC then unanimously approved the 2022 Ontario Comprehensive Area Transmission Review provided in the Agenda package.



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Policy Discussion

May 3, 2023 NPCC Board Meeting - Summer 2023 Reliability Assessment

Mr. Lombardi reported that the NPCC Board was presented with the results of the NPCC 2023 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 on May 4, 2023, following the NPCC Board meeting. An overview of the Summer 2023 Reliability Assessment is included in the agenda package.

May 10-11, 2023 NERC MRC/BOT Meeting(s)

Mr. Oks mentioned that the agenda packages for the May 10-11, 2023 NERC MRC/BOT Meetings are included in the RCC agenda package. Mr. Oks noted two action items from the NERC Board agenda:

- ✓ Level 3 Alert Essential Actions to Industry: Cold Weather Preparations for Extreme Weather Events III – Approved by the NERC Board. This is the first Level 3 Alert even issued and consists of eight Essential Actions, as follows:
 1. Each GO should calculate the Extreme Cold Weather Temperature (ECWT)³ for each plant location prior to the next winter season.
 2. Each GO should, pursuant to EOP-011-2 Requirement R7, identify in the cold weather preparedness plan, the Generator Cold Weather Critical Components and freeze protection measures implemented on those components prior to the next winter season.
 3. Each GO should identify which units are capable of operating at the ECWT as currently built, and which units require additional freeze protection measures to operate at that temperature.
 4. Each GO should identify which units experienced a Generator Cold Weather Reliability Event in the 2022–2023 winter season.
 5. Each TOP should update their operating plan(s) prior to the next winter season, to include provisions to minimize the overlap of circuits that are designated for manual load shed and circuits that are utilized for underfrequency load shed (UFLS) or undervoltage load shed (UVLS).
 6. Each BA should update their operating plan(s) prior to the 2023–2024 winter season, to include provisions for TOPs to implement operator controlled manual load shed; and manage generating resources in its BA Area.
 7. Each GO should provide its RC, BA, and TOP the ECWT for its location prior to the next winter season and whether Generator Cold Weather Critical Component freeze protection measures will not be implemented on components prior to the next winter season.
 8. Each GO should share their responses with their respective BAs and TOPs to allow for updates to any operating plans before the next winter seasons.
- ✓ Internal Network Security Monitoring Data Request
 - Responds to FERC directive for NERC to develop Reliability Standards requirements to require internal network security monitoring for all high impact Bulk Electric System (BES) Cyber Systems and medium impact BES Cyber Systems with External Routable Connectivity.
 - The NERC Board authorized issuance the data request to the reporting entities to provide NERC with information needed to determine the quantity of locations and types of locations as directed by the Commission and enable NERC to complete its study within the directed deadline. Once authorized, the data request will be issued through the ERO Portal.



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Mr. Oks also reported that an update was provided to the NERC Board on the Standards Process Improvement Opportunities. NERC has convened a Standards Process Stakeholder Engagement Group (SPSEG) to provide feedback and develop consensus recommendations for improving agility of the process while maintaining the key role of stakeholders in producing consensus standards. Proposed changes to the Standard Processes Manual are currently posted for a second 45-day formal comment period and additional ballot.

June 21-22, 2023 NERC Reliability and Security Technical Committee

Mr. Lombardi noted that the Reliability and Security Technical Committee DRAFT agenda is included in the agenda package. Messrs. Lombardi, Sahiholamal, and Wegh highlighted the following items:

- ✓ White Paper – Overview of Energy Reliability Assessments – Volume 1
The purpose of this whitepaper is to clarify what an energy reliability assessment is and recommend elements for consideration when performing an assessment. Energy reliability assessments account for the finite nature of stored fuels and their replenishment characteristics. In addition, the availability of natural gas to supply electric generation can impact reliability during high natural gas demand periods throughout the year.

The 45 day industry comment period was completed on April 21, 2023 and comments were addressed. The NERC ERAFT is seeking approval of the white paper at the RSTC June 21, 2023 meeting.
- ✓ SAR for Revisions to MOD-031 Standard
The NERC SPIDERWG drafted a SAR to provide clarity to MOD-031 with respect to DER and proposes implementing a process to send data for existing and forecasted DER capacity information. The NERC SPIDERWG received input and comments from the NERC RSTC and NERC RAS; the feedback received has been addressed and the NERC SPIDERWG is seeking endorsement of the SAR at the RSTC June 21, 2023 meeting.
- ✓ Reliability Guideline: DER Data Collection and Model Verification of Aggregate DER
As part of the RSTC guideline triennial review process, the NERC SPIDERWG combined two existing guidelines into this updated guideline. The guideline update focuses on data collection language describing current EMT efforts, particularly inclusion of load plus DER when modeling the Transmission-Distribution Interface to perform simulations.

At the RSTC June 21, 2023 meeting, the NERC SPIDERWG is seeking approval of this reliability guideline and retirement of:
 - Reliability Guideline: DER Data Collection for Modeling in Transmission Planning Studies
 - Reliability Guideline: DER Model Verification of Aggregate DER Modeling used in Planning Studies
- ✓ SPCWG Order 881-A Position Paper
FERC orders 881 and 881A will require industry to develop and implement Ambient Adjusted Ratings for transmission facilities in the United States. The SPCWG requests the RSTC to endorse the conclusions and recommendations of the position paper, which can then be used to help work out an appropriate implementation timeframe and may provide some guidance to the industry.



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Discussion Items

NPCC Task Force 2023-2024 Work Plan Overview

Ms. Philip called on each Task Force Chair to highlight their respective activities. Ms. Philip noted that additional information can be found in the agenda package, which contains all the individual Task Force updates.

Task Force on Coordination of Operation (TFCO)

Mr. McSherry highlighted the following TFCO activities:

- ✓ 2023 Spring NPCC System Operator Seminar (No. 90) was held on May 17-18, 2023.
- ✓ Triennial review of Directories:
 - Directory No. 1, *Design and Operation of the Bulk Power System*
 - Directory No. 2, *Emergency Operations*
 - Directory No. 5, *Reserve*
 - Directory No. 6, *Reserve Sharing Groups*
- ✓ Triennial review Area Restoration Plan reviews - completed Hydro-Québec, Maritimes, and New England

Task Force on System Studies (TFSS)

Mr. Lal highlighted the following TFSS activities:

- ✓ 2023 Area Review Proposals:
 - Maritimes_NB – Interim
 - Maritimes_NS – Interim
 - New England - Interim
 - New York - Interim
 - Ontario - Interim
 - Québec - Intermediate
- ✓ Mid-year RAS list update
- ✓ Electromagnetic Transient (EMT) modeling survey

Task Force on Coordination of Planning (TFCP)

Mr. Fihey highlighted the following TFCP activities:

- ✓ Reviewed and approved Remedial Action Schemes
- ✓ Creation of a Remedial Action Schemes approval form
- ✓ Energy Transition discussions, for example:
 - Area collaboration
 - Tie strength requirements
 - Longer term resource adequacy studies
 - Projected reduction of natural gas resources
 - Projected increase of inverter based resources.
 - System inertia and Electromagnetic Transient (EMT) modeling

Task Force System Protection (TFSP)

Mr. Vasilachi highlighted the following TFSP activities:

- ✓ Assessment of proposed protection systems and remedial action schemes - 30 system protection facility presentations reviewed to date.
- ✓ Initiating the review of Directory No. 4, *Bulk Power System Protection Criteria*
- ✓ SP-7 reviewing protection system failure by manufacturer to identify any systemic causes.

Task Force on Infrastructure Security & Technology (TFIST)

Mr. Vesely highlighted the following TFIST activities:



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- ✓ Support of associated NERC activities:
 - NERC Project 2016-02, Modifications to CIP Virtualization suite of standards
 - NERC Project 2023-03 Internal Network Security Monitoring Standard Authorization Request
 - NERC CIP-003-9, Cyber Security — Security Management Controls
- ✓ Operational technology

Operational Technologies Policy Forum

Mr. Vesely reported that one of the goals of the policy forum is create a means to coordinate operational technology (OT) and control system leadership communication among utilities in the northeast. He noted that in a number of companies, unlike information technology with a Chief Information Officer, there is a gap in identifying the who in cyber security has the executive leadership for operational technologies as OT responsibilities are often distributed through the applicable program areas.

Ms. Philip indicated that RCC members should talk internally at their companies and come to the next RCC meeting prepare to discuss proposed next steps to address any gap in OT structures, coordination, and responsibilities.

2023 Corporate Reliability Goals

Goal IA-6 SAIS Quarterly Status Report

Mr. McSherry presented the Goal IA-6 SAIS quarterly status report. As part of the NPCC's 2023 Goals, NPCC Situation Awareness (SA) Staff will be working with other Regional Entities' SA departments to review and evaluate other Regional Entities' SA capabilities (tools, processes, reporting, response plans, etc.) to look for opportunities to enhance NPCC's SA team effectiveness in maintaining near real-time situation awareness of condition on the BPS.

The work plan is to engage and collaborate with four other Regional Entities over the course of the 2023, per (current, tentative) schedule below, and based on the review and evaluation of other REs' capabilities identify recommendations to improve NPCC's real-time situation awareness of conditions on the BPS. Additionally, NPCC solicited input from the CO-8 WG members during their February 16-17, 2023 and May 1-2, 2023 and TFCO members during their March 15-16, 2023 and May 11-12, 2023 meetings, for any enhancements to the NPCC's SA activities and capabilities.

- ✓ ReliabilityFirst (RF) – August 29, 2023
- ✓ Texas Reliability Entity (TRE) – July 26, 2023
- ✓ Western Electricity Coordinating Council (WECC) – October 13, 2023
- ✓ Midwest Reliability Organization (MRO) and/or SERC Reliability Corporation (SERC) – date TBD/Virtual

A quarterly status report for this goal is provided the agenda package.

Goal IB-1 RAPA Quarterly Status Report

Ms. Zannat and Mr. Lombardi presented the Goal IB-1 RAPA which involves NPCC staff participation on the Electric Power Research Institute (EPRI) Resource Adequacy for a Decarbonized Future initiative and the US DOE Atlantic Offshore Wind Transmission (AOSWT) Study. Ms. Zannat noted that NPCC staff are participating in the recently created Energy Systems Integration Group (ESIG) Redefining Resource Adequacy Task Force.



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Through both the EPRI and ESIG Resource Adequacy activities the objective is to accelerate the evolution of resource adequacy processes and tools in assessing the reliability of decarbonizing power systems. The RA activities consists of several deliverables to accomplish objectives, including, but not limited to:

- ✓ metrics and criteria for resource adequacy,
- ✓ scenario definition guidelines for resource adequacy studies (including climate and weather scenario analysis),
- ✓ review existing resource adequacy tools, and
- ✓ provide guidance and solutions for the current gaps in resource adequacy studies.

Since the last quarterly status report to the RCC, the DOE AOSWT held both a Stakeholder Workshop and a Technical Review Committee meeting. Recent study activities have focused on radial and interregional topologies, as well as production cost and resource adequacy analysis.

With the Atlantic Offshore Wind Transmission Study more than 50 percent completed, the workshop was based on the preliminary analysis which identified some initial planning and operations recommendations over the following time frames:

- ✓ Immediate Actions before 2025
- ✓ Near-term Actions for 2025 – 2030
- ✓ Mid-term Actions for 2030 – 2040
- ✓ Long-term Actions for Sustainable Growth

The AOSWT TRC reviewed results for the production cost and resource adequacy analysis performed by National Renewable Energy Laboratory (NREL). The focus for the resource adequacy analysis is to observe how much more reliable the interregional system which had additional transmission capability is compared to the radial network by comparing the equivalent firm capacity need to be added to reduce the unserved energy to the interregional offshore network. NREL will be performing analysis to estimate resource adequacy benefits for all transmission topologies.

A quarterly status report for this goal is provided the agenda package.

Goal IB-1 SAIS G-E interdependencies-critical loads

Mr. Oks presented the Goal IB-1 SAIS quarterly status report. As part of the NPCC's 2023 Goals, NPCC Situation Awareness (SA) Staff will be working with NPCC entities and gas entities within (and potentially outside) NPCC's footprint to hold roundtable discussions to share information regarding critical natural gas electric load interdependencies, and to identify opportunities to mitigate the risks of critical natural gas-electric load interdependencies within the NPCC region.

The NPCC Staff requested that the RCC provide feedback and input on the goal's activities to date and going forward and any specific topics within the scope of the goal that should be considered.

A status report for this goal is provided the agenda package.

Goal II-3 STD Quarterly Status Report

Mr. Dunbar presented the Goal II-3 STD which specifies the completion of three briefings with State and Provincial Regulators on NERC and NPCC reliability assessments to promote



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awareness of effective regional transmission planning in the face of the changing resource mix and the completion of a fourth briefing to identify specific Northeast emerging reliability risks.

On March 31, 2023, NPCC conducted an outreach session with State and Provincial Regulators focused on regional cyber and physical challenges. During the session, a representative from the Electricity Information Sharing and Analysis Center (E-ISAC) provided insight on the E-ISAC’s engagement with asset owners and the analysis of security threats and mitigation strategies.

During the same session NPCC Staff described partnerships with local and state law enforcement agencies and the current cyber and physical regional threats to the energy sector.

Additionally on May 19, 2023, an outreach briefing focused on NERC ‘s 2023 Summer Reliability Assessment (SRA) and NPCC’s regional Reliability Assessment and Performance (RAPA) activities in support of the SRA was conducted.

NPCC anticipates coordinating additional State and Provincial outreach sessions in 2023 focused on NERC’s Long Term Reliability Assessment (LTRA) and NERC’s 2023-2024 Winter Reliability Assessment.

A quarterly status report for this goal is provided the agenda package.

Informational Items

Ms. Philip referred the RCC to the Informational Items materials provided in the Agenda package. Mr. Oks was asked to give an update on the upcoming New England Winter Gas-Electric Forum.

June 20, 2023 New England Winter Gas-Electric Forum

Mr. Oks indicated that the upcoming forum is a continuation of the discussion from the September 8, 2022, forum about the electricity and natural gas challenges facing the New England region. This forum will discuss studies on extreme weather risks, infrastructure on the electric and gas systems in New England, and infrastructure and market design reforms to aid with the electric and gas system challenges faced historically during New England winters. The goal of this forum is to identify solutions to address the electric and gas system challenges and discuss timing of their potential implementation.

The forum is a one day event that will include panel discussions with a focus that includes the winter 2023-2024 operation period, the role the Everett marine terminal, and market design. Additional information is provided in the agenda package.

Future Meetings

Next RCC Meeting Date	Location
September 12, 2023	[WebEx meeting]
Future RCC Meeting Dates	Location
December 5, 2023	New York, NY
December 15, 2023	[WebEx meeting]



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Other Matters

Winter Storm Elliott

Mr. Oks indicated that the inquiry is ongoing which limits the discussion at this time. However, two high level points worth noting are:

1. FERC June 15, 2023 Open Meeting will include a presentation on the *FERC-NERC-Regional Entity Joint Inquiry into Winter Storm Elliot*.
2. To ensure that the findings and recommendations are available before the upcoming winter season, the schedule has been advanced to:
 - ✓ Inquiry findings and recommendations to be presented at the FERC September 2023 Open Meeting
 - ✓ Final Report target for issuance in October 2023

Interregional Transfer Capability Study

Mr. Lal provided a heads up that the recently signed Fiscal Responsibility Act of 2023 has a directive that the Electric Reliability Organization in consultation with each regional entity and each transmitting utility shall conduct a study of total transfer capability between transmission planning regions.

In a June 2, 2023 press release, “NERC pledges to move forward on passage of the interregional transfer capability study directed in the debt ceiling legislation.” Mr. Lal indicated that NPCC does not have much information at this point as this activity is new. However, at future meetings, NPCC staff can update the RCC, as necessary, on the status of this activity once more information is available.

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



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Members, NPCC Task Force on Coordination of Planning

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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 – Adria Brooks

New Brunswick Department of Energy and Mines – David Sollows

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