



NORTHEAST POWER COORDINATING COUNCIL, INC.  
1040 AVE OF THE AMERICAS. NEW YORK. NY 10018 (212) 840-1070 FAX (212) 302-2782

May 29, 2020

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 February 27, 2020 RCC Meeting

Sir / Madam:

Attached are the Minutes of the February 27, 2020 meeting of the NPCC Reliability Coordinating Committee, as approved at the May 27, 2020 RCC meeting.

Sincerely,

*Phil Fedora*

Philip A. Fedora  
Assistant Vice President - Reliability Services

cc: NPCC Staff



**NORTHEAST POWER COORDINATING COUNCIL  
Reliability Coordinating Committee Minutes  
February 27, 2020**

Mr. Crissman called the meeting of the Reliability Coordinating Committee (RCC), held at the New York Times Square Residence Inn by the Marriott, New York, New York to order at 10:00 am.

**Attendance**

**Officers of the Reliability Coordinating Committee**

Randy Crissman, Chair	New York Power Authority
David Conroy, Co-Vice Chair	Central Maine Power Company
Gabriel Adam, Co-Vice Chair (via phone)	Ontario IESO

**Sector 1 - Transmission Owners**

Central Hudson Gas & Electric Corporation	Frank Pace
Central Maine Power Company	David Conroy
Consolidated Edison Company of New York, Inc.	(proxy to Aleksandra Gofman)
Eversource Energy	George Wegh
Hydro-One, Inc.	Ajay Garg - Alternate
Long Island Power Authority	Anie Philip (via phone)
National Grid USA	Brian Hayduk (via phone)
New York Power Authority	(proxy to Randy Crissman)
New York State Electric & Gas Corp.	(proxy to David Bradt)
Nova Scotia Power, Inc.	Joy Brake – Alternate
Orange & Rockland Utilities, Inc.	(proxy to Ben Wu)
Rochester Gas & Electric Corporation	(proxy to David Bradt)
The United Illuminating Company	David Bradt
	Silvia Valerio - Alternate
Vermont Electric Power Company, Inc.	Hantz Presume (via phone)

**Sector 2 – Reliability Coordinators**

Hydro-Quebec TransEnergie	Stephane Desbiens
ISO New England, Inc.	Michael Henderson
	Rich Kowalski – Alternate (via phone)
New Brunswick Power Corporation	(proxy to Randy MacDonald)
New York ISO	(proxy to Aaron Markham)
Ontario IESO	Gabriel Adam (via phone)

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

Consolidated Edison Company of New York, Inc.	(proxy to Aleksandra Gofman)
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Eversource	Barry Bruun
Hydro-Quebec Distribution	Hakim Sennoun - Alternate (via phone)
Long Island Power Authority	(proxy to Anie Philip – via phone)
National Grid	Mike Jones (via phone)
New York Power Authority	(proxy to Randy Crissman)
New Brunswick Power Corporation	Randy MacDonald (via phone)
Orange & Rockland Utilities, Inc.	Ben Wu

**Sector 4 Generation Owners**

Consolidated Edison Company of New York, Inc.	(proxy to Aleksandra Gofman)
Dominion Energy, Inc.	Sean Bodkin (via phone)
Long Island Power Authority	(proxy to Anie Philip – via phone)
NextEra Energy Resources	(via written proxy)
New York Power Authority	Randy Crissman
Ontario Power Generation	Mike Cooke
	David Kwan - Alternate
Vistra Energy Corp.	Ken Stell (via phone)

**Sector 5 – Marketers, Brokers, and Aggregators**

Consolidated Edison Company of New York, Inc.	Aleksandra Gofman
Long Island Power Authority	(proxy to Anie Philip– via phone)
New York Power Authority	(proxy to Randy Crissman)
Utility Services, Inc.	Brian Evans-Mongeon

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

Long Island Power Authority	(proxy to Anie Philip– via phone)
New York Power Authority	Shivaz Chopra
New York State DPS	Humayun Kabir (via phone)

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

New York State Reliability Council, LLC	Roger Clayton (via phone)
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**NPCC Staff**

Gerard Dunbar	Manager, Reliability Criteria
Phil Fedora	Assistant Vice President, Reliability Services
Brian Hogue	Information Systems & Security Management
Andreas Klaube	Senior Engineer, Operations Planning
Neeraj Lal	Senior Reliability Engineer



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Quoc Le	Manager, System Planning
Michael Lombardi	Director, Reliability Assessments
Jennifer Budd Mattiello (via phone)	Senior Vice President and COO
Scott Nied	Assistant Vice President, Compliance
Andrey Oks	Director of Operations Coordination
Ralph Rufrano	Manager, Events Analysis
Rafael Sahiholamal (via phone)	Manager, System Protection
Peter Scalici (via phone)	Manager, Security Outreach Programs
Edward Schwerdt	President & CEO

**Guests**

Richard Bolbrock	New York State Reliability Council
Calvin Curry	Vice Chair, Task Force on Infrastructure Security & Technology
Alessia Dawes	Chair, CP-11 Working Group
George Fatu (via phone)	Chair, Task Force on System Studies
Anthony Napikoski	Chair, Task Force on System Protection
Abhinav Rawat	National Grid
Edward Roedel (via phone)	Vice Chair, Task Force on Coordination of Planning
Dan Schwarting	Vice Chair, CP-11 Working Group

**Quorum Statement**

Mr. Fedora indicated that a quorum had been achieved, by member attendance, proxy, or alternate designation. He also indicated he received the following written proxy:

**Sector 4 – Generator Owners**

Allen Schriver – NextEra Energy Resources

**Antitrust Guidelines for NPCC Meetings**

Mr. Fedora reviewed the NPCC Antitrust Guidelines in the Agenda package, and suggested contacting NPCC Inc.'s Assistant Secretary, Ruta Skučas, Esq. at (202) 530-6428 for further information.

**President & CEO Report**

**NPCC Working Draft Strategic Plan**

Mr. Schwerdt reported that the NPCC Board developed and continues to refine its working draft strategic plan that looks ahead on a rolling three to five-year average to successfully position NPCC to respond to current and anticipated structural changes in the electricity



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industry, to growing reliability interdependencies, and to evolving challenges and opportunities. The Working Draft Strategic Plan outlines three strategic focus areas, which include: Enhancing System Resilience and Assuring Energy Sufficiency; Reliably Integrating Distributed Energy Resources; and Addressing Cyber and Physical Threats. Following the NPCC Board's discussions during its January 29, 2020 meeting, a redacted, public version of the Working Draft Strategic Plan was created; a copy of that document is included in the Agenda package. The present Working Draft Strategic Plan identifies a number of targeted reliability activities that will require dedicated resources in the near-term to support the vision of a highly reliable and secure North American Bulk Power System. The Board will continue its strategic discussions related to the longer-term reliability initiatives in parallel with a changing electricity industry. Intentionally, several of the targeted activities in support of reliability are included in NPCC's 2020 Corporate Reliability Goals.

**NPCC 2020 Corporate Reliability Goals**

Mr. Schwerdt referred to the NPCC Board-approved Corporate Reliability Goals included in the Agenda package. There are eleven corporate reliability goals established for this year, supporting the focus areas in the strategic plan. There is a direct tie between the strategic plan, the targeted activities, and the corporate goals. By program area, there is one goal for Regional Standards, three for Compliance, four for Reliability Assessment and Performance Analysis, and three for Situation Awareness. Individual goals include enhancements to the Distributed Energy Resources (DER) guidance document; development of more sophisticated system performance and resource adequacy metrics; infrastructure interdependency considerations; non-compliance trending; and cyber and physical security outreach.

**NPCC 2021 Business Plan & Budget Development**

Mr. Schwerdt briefly summarized the development of NPCC's 2021 Business Plan and Budget included in the Agenda package. The objective is to prioritize activities and identify resource requirements that support both the NPCC Strategic Plan and the ERO Vision, Mission, Goals and Metrics in alignment with the ERO Long Term Strategy. The budget is reviewed to ensure it is reflective of overall fiscal constraints.

He explained that the first draft of the 2021 Business Plan and Budget will be presented at the May 6, 2020 NPCC Board meeting. Following its approval, it will then be submitted to NERC and posted to the NPCC website for comment through May 31, 2020. Ms. Hala, NPCC's Director of Finance and Accounting will present the first draft of the plan and budget at the May 27, 2020 RCC meeting. The NPCC Board will review a "Draft for Approval" NPCC 2021 Business Plan & Budget, considering comments received, at its June 24, 2020 meeting.



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Mr. Henderson asked if there should be an RCC review of the NPCC Business Plan & Budget prior to the first draft being presented to the NPCC Board. Mr. Schwerdt reviewed the framework for the NPCC Board's Business Plan & Budget development; the same day that the NPCC Board approves the first draft, it is posted for the NPCC Membership to comment and suggest revisions. The May 27, 2020 RCC meeting specifically provides the RCC the opportunity to comment on the first draft. Following the May 31, 2020 deadline for Membership comments, a second draft will be prepared for consideration at subsequent NPCC Board meetings.

**Chair Report**

**Agenda**

Mr. Crissman reviewed the Agenda provided in the Agenda package. Mr. Crissman noted that the Physical and Cyber Security update will be moved from the Informational Items to be covered as the last Discussion Item at today's meeting.

**The RCC then approved the Agenda provided in the Agenda package.**

**September 9<sup>th</sup> RCC Meeting – Date Change**

Mr. Fedora reported that the September RCC meeting has been moved to Wednesday, September 9, 2020 to avoid a conflict with the NPCC Board of Directors September 2, 2020 Strategy Session.

**February 13<sup>th</sup> NPCC Distributed Energy Resources (DER) Forum**

Mr. Crissman reported that the last NPCC DER Forum was held on February 13, 2020. FERC, NERC and a total of approximately 90 entities participated by WebEx and in-person. The main topics were Advanced Metering Infrastructure and how to leverage it to improve operator and system visibility, forecasting, and performance. NERC gave a presentation on its related System Planning Impacts from Distributed Energy Resources Working Group and Inverter-based Resources Task Force activities.

It was reported that the National Association of Regulatory Utility Commissioners approved a motion to adopt the IEEE-1547-2018 standard related to power inverters.

The next NPCC DER Forum is scheduled for May 14, 2020. The focus of the next forum will be on the Interconnection of DER, lessons learned, obstacles to deployment and challenges related to planning, operations, hosting, visibility etc. Presenters will be from the New York Department of Public Service's Interconnection Technical Working Group, the Joint Utilities of New York, and Eversource and Canadian Provincial representatives. EPRI will be discussing its various projects related to DER deployment such as "effective grounding" and energy storage.



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Currently, NPCC's Version 1 DER Guidance document is under review. A revised version is expected to be posted for industry comment in the second quarter of 2020.

**NPCC Website Redesign**

Mr. Hogue reported that by March 23, 2020 (or later) a redesigned NPCC Website will be in-place with improvements to navigation, content, and other technical areas. Mr. Crissman asked RCC members to review their respective Task Force and Working documents with respect to the NPCC Document Retention Policy and provide Mr. Fedora with their respective recommendations prior to the implementation of the redesigned NPCC Website.

**Policy Discussion**

**NPCC Board Activities**

*NPCC 2020 Corporate Reliability Goals*

Mr. Fedora highlighted the following NPCC 2020 Corporate Reliability Goals provided in the Agenda package that involve the RCC and support of the NPCC Task Forces and Working Groups:

**Goal**    **Description**

- IA-1    Analyze system performance and system robustness through trending of extreme contingency testing using alternative metrics for measuring system strength results.
- IB-1    Evaluate the applicability of alternative resource adequacy metrics, with significant DER/renewable penetration and load variability.
- IB-2    Enhance the reference document on restoration plans to evaluate the impacts of critical infrastructure interdependencies on a consistent basis.
- II-1    Coordinate the development of Version 2 of NPCC's Regional approach to DER guidance document to focus on optimizing reliability and system resilience using DER resources and also promulgate information and promote discussions regarding technological capabilities which can contribute to enhanced BES performance and operability through the NPCC DER Forum.
- II-2    Improve the process for the timely updating of generator models in dynamic cases, emphasizing the accurate modeling of distributed energy resources.
- II-3    Enhance the consistency of the short-circuit modeling practices used within the NPCC Areas.
- III-1    Organize and facilitate cyber-security training for system operators in order to improve NPCC members' security posture and response capabilities.
- III-3    Expand NPCC physical security programs and activities, including increasing the coordination and collaboration with the critical cross-sectors to mitigate interdependencies' risk in the areas of physical security.

Mr. Scalici provided an overview of NPCC's physical security programs (IST-5 Working Group) activities. Mr. Schwerdt reported on a NERC initiative to increase the interaction between the information sharing through the E-ISAC and the Regions. Mr. Crissman





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reported on the North American Transmission Forum (NATF) initiative for a Transmission Resiliency Maturity Model; the New York Power Authority has participated in a pilot assessment.

Mr. Crissman then referred the RCC to the RCC Scope and 2020-2021 Work Plan included in the Agenda package, approved by the NPCC Board on January 29, 2020.

Mr. Clayton asked if the scope for Goal IB-1 would include previous estimates of NPCC LOLH and EUE to gauge how these metrics may compare to the current NPCC LOLE criteria. Mr. Fedora responded that the approach, scenarios, and assumptions are under development and will be presented at the May 27, 2020 RCC meeting. He indicated that reliability metrics from previous NPCC and NERC Probabilistic Assessments will be considered.

Mr. Adam asked if the IA Goals related to the identification of the contributions to reliable operations and resilience made by compliance with ERO Reliability Standards would only consider existing standards. Mr. Schwerdt responded that those aspects of the Goal are associated with the Compliance program Area. They will be considering, from a generic sense (without identification of entity non-compliance), the most violated standards to assist in mitigating identified O&P non-compliance trends and to prompt early risk assessment, mitigation activities, self-reporting and self-logging. This is not to suggest that resilience is achieved only by complying with the NERC Reliability Standards, but it is one of the building blocks. Trends in non-compliance with the NERC Standards and will be reported at the Spring and Fall NPCC workshops, and through the other activities listed under that goal.

Mr. Adam agreed that reliability is a component of resiliency; Mr. Schwerdt replied that the measure of resiliency is hampered by not having a regulator-approved definition. Mr. Garg added that resilience is a shared responsibility of all stakeholders.

**NERC Board of Trustees Activities**

Mr. Crissman discussed the NERC Board of Trustees request for policy input regarding the Electromagnetic Pulse (EMP) Task Force Strategic Recommendations and the Supply Chain Risk Assessment for low impact assets provided in the Agenda package. He said that the EMP Task Force would continue and was assigned to develop a work plan for acting on the strategic recommendations included in the report accepted by the Board of Trustees.

Mr. Fedora briefly described the proposed ERO 2020 Work Plan priorities and Focus Areas included in the Agenda package:

- ✓ Expand Risk-Based Focus in Standards, Compliance Monitoring, and Enforcement;





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- ✓ Assess and Catalyze Steps to Mitigate Known and Emerging Risks to Reliability and Security
- ✓ Build a Strong E-ISAC-Based Security Capability;
- ✓ Strengthen Engagement across the Reliability and Security Ecosystem in North America; and,
- ✓ Capture Effectiveness, Efficiency, and Continuous Improvement Opportunities.

Mr. Evans-Mongeon noted that a Standard Authorization Request would be likely developed to address the Supply Chain recommendations the next time the CIP-013 is revised, but not at this time. He added that the EMP Task Force would be looking at the 15 strategic recommendations and developing a work plan and deliverables for the identified priority areas – but not all 15 at once.

Mr. Garg discussed the Canadian policy input provided to the NERC Board of Trustee regarding concerns regarding the E-ISAC.

Mr. Evans-Mongeon noted that NERC thanked outgoing Board member Mr. Goulding, who has retired, for his many years of service to NERC and its stakeholders. The RCC joined Mr. Evans-Mongeon in recognizing Mr. Goulding for his NPCC contributions and wished him the best in his retirement.

Mr. Wegh asked about the key EMP Task Force milestones. Mr. Crissman responded that the EMP Task Force is entering Phase 2, addressing the technical committee EMP priorities;

- ✓ Establish performance expectations;
- ✓ Provide guidance on asset hardening; and,
- ✓ Provide guidance to industry for supporting systems and equipment for recovery.

**NERC Committee Activities**

Messrs. Crissman and Brian-Evans Mongeon led a discussion of the following items from the March 4, 2020 Reliability and Security Technical Committee (RSTC) Agenda included in the Agenda package:

- ✓ RSTC Membership - 2020-2023;
- ✓ Committee Organization Charts;
- ✓ Approval of 2020 Standing Committee Work Plans:
  - Operating Committee;
  - Planning Committee; and,
  - Critical Infrastructure Protection Committee.
- ✓ RSTC Transition Plan.

**Joint Session: Planning, Operating & Critical Infrastructure Protection Committee**

Mr. Oks led a discussion of the following presentations that are scheduled for the March 3, 2020 Joint Session included in the Agenda package:

- ✓ E-ISAC Cybersecurity Update;



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- ✓ Framework for Risk Identification and Mitigation;
- ✓ ERO Performance Objectives, and,
- ✓ DOE North American Energy Resilience Model.

*Planning Committee (PC) Meeting*

Mr. Fedora led a discussion of the following items from the draft March 3-4, 2020 Planning Committee agenda included in the Agenda package:

- ✓ Approval of Reliability Guideline: BPS Perspectives for Implementing IEEE 1547-2018;
- ✓ Authorize posting for Comment - Reliability Guideline: Distributed Energy Resource Data Collection for Transmission Planning;
- ✓ Approval of Reliability Guideline: Fuel Assurance and Fuel-Related Reliability Risk Analysis for the Bulk Power System;
- ✓ Approval of White Paper: Fast Frequency Response Fundamentals;
- ✓ Approval of White Paper: IRPTF Review of NERC Reliability Standards Applicability;
- ✓ Approval of White Paper: Reliability Gaps in Reliability Standard PRC-019-2; and,
- ✓ Authorize posting for Comment - NERC Rules of Procedure Section 1600 Data Request for Generator Availability Data System Data Request.

Mr. Evans-Mongeon led a discussion regarding the activities of the NERC System Planning Impacts from Distributed Energy Resources Working Group with respect to the TPL-001 Standard. He said the PC would be discussing, not just the reliability impacts of DER aggregation, but of DER itself; the question is whether or not there should be greater consideration of DER in the NERC standards.

Mr. Evans-Mongeon also mentioned another area of PC discussion concerns the MOD-025 requirements for generator real and reactive power capability. He noted that many resources are not able to verify meeting the requirements. He said the NERC Power Plant Modeling and Verification Task Force under the System Analysis and Modeling Subcommittee is looking into the issue of whether or not to continue the requirement in the standard or how the standard might need to be modified.

Mr. Conroy said it was important for both system planners and operators have accurate system awareness of the leading and lagging capabilities of their resources; because system modeling must be based on actual generator capabilities.

Mr. Evans-Mongeon asked the RCC members to contact him if there is interest in helping NERC addressing the issues.



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*Operating Committee (OC) Meeting*

Mr. Rufrano led a discussion of following approval items from for the March 3-4, 2020 OC agenda included in the Agenda package:

- ✓ Event Analysis Subcommittee - Risks and Mitigations for Losing EMS Functions Reference Document v2.0;
- ✓ Personnel Subcommittee Revised Scope;
- ✓ Inverter-based Resources Task Force (IRPTF) White Papers:
  - Fast Frequency Response; and,
  - IRPTF Review of NERC Reliability Standards.

*Critical Infrastructure Protection Committee (CIPC)*

Mr. Hogue led a discussion of the following informational items from the March 3-4, 2020 CIPC agenda included in the Agenda package:

- ✓ Supply Chain update;
- ✓ E-ISAC Physical Security Advisory Group;
- ✓ Security Outreach Working Group; and,
- ✓ Disposition of archived documents.

Mr. Crissman referred the RCC to the NATF Supply Chain Cyber Security Industry Coordination effort in the Agenda package. The NATF and other industry organizations are working together to provide a streamlined, effective, and efficient industry-accepted approach for entities to assess supplier cyber security practices.

He also mentioned that the NERC Standards Efficiency Review project review of the existing NERC Cyber Infrastructure Protection standards' requirements; there may be requirements retired as a result of the input received from the industry.

**Consent Agenda**

The Reliability Coordinating Committee unanimously approved the following Consent Agenda items (written proxy in favor):

**December 3, 2019 Meeting Minutes**

Approved as provided in the Agenda package, with editorial/grammatical changes noted at the meeting.

**RCC Membership Changes**

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

**Sector 1 - Transmission Owners**

- ✓ Abhinav Rawat succeeds Brian Hayduk as the member for National Grid.
- ✓ Mark Domino succeeds Bart Franey as the alternate for National Grid.



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

- ✓ Richard Bolbrock succeeds Dr. Mayer Sasson as an alternate of the NYSRC.

**Task Force Roster Changes**

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

**Task Force on Coordination of Planning**

- ✓ Sylvie Gicquel as the member for Hydro Quebec Distribution.
- ✓ Abdelhakim Sennoun as the alternate for Hydro Quebec Distribution.

**Task Force on System Studies**

- ✓ Neeraj Lal succeeds Michael Lombardi as Secretary, both of NPCC.
- ✓ Alessia Dawes succeeds Hamid Hamadani as a primary member, both of Hydro One Networks, Inc.
- ✓ Michael Lombardi succeeds Neeraj Lal as an alternate member, both of NPCC.
- ✓ Hamid Hamadani succeeds Alessia Dawes as an alternate member, both of Hydro One Networks, Inc.
- ✓ Paul Didsayabutra of Rochester Gas and Electric succeeds Tim Lynch as an alternate member.

**Task Force on Infrastructure Security & Technology**

- ✓ William Vesely, Consolidated Edison Company of New York, Inc. succeeds David Cadregari, Rochester Gas & Electric Corporation as Chair.
- ✓ Calvin Curry, Orange and Rockland Utilities Inc. succeeds William Vesely, Consolidated Edison Company of New York, Inc. as Vice-Chair.
- ✓ Anthony Stevens succeeds David Gordon as the Massachusetts Municipal Wholesale Electric Company representative.
- ✓ Carol Martucci as the Massachusetts Municipal Wholesale Electric Company alternate.
- ✓ Jodi Crozzoli as the New York Independent System Operator alternate.
- ✓ Jessica Clark as the New York State Electric & Gas alternate.
- ✓ Darcy Guenette as the Ontario Power Generation representative.
- ✓ Brian Robinson as the Utility Services Inc. alternate.
- ✓ Danny Cvijic of Northeast Power Coordinating Council, Inc. no longer an alternate.

**System Operations Managers Working Group (CO-8)**

- ✓ Kyle Russell as the primary representative for the Ontario IESO, replacing Nicola Presutti.
- ✓ Gaetan Benoit of NB Power as the new Chair, replacing Nicola Presutti.
- ✓ Kyle Russell of the Ontario IESO as the new Vice Chair.
- ✓ Tim Aliff will no longer serve as the alternate representative for MISO; no replacement has been named.

**CP-8 Working Group On Review Of Resource And Transmission Adequacy**

- ✓ Mr. Abdelhakim Sennoun as the member representing Hydro Quebec Distribution.
- ✓ Ms. Sylvie Gicquel as the alternate representing Hydro Quebec Distribution.

**SS-38 Working Group on Inter-Area Dynamic Analysis**



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- ✓ Gabriel Dion Marcotte succeeds Vincent Morissette as the member, both of Hydro-Québec TransÉnergie. Mr. Morissette will remain as the alternate member.
- ✓ Lance Black as the new primary representative for Eversource.

**IST-2 Telecommunications Working Group**

- ✓ Peter Woo of the Ontario IESO no longer a member.
- ✓ Danny Cvijic of Northeast Power Coordinating Council, Inc. no longer an alternate.

**IST-4 Working Group on Cyber Security**

- ✓ David Cadregari of Rochester Gas & Electric Corporation resigned as Chair.

**SPS/RAS, BPS, and UVLS List(s)**

Approved as provided in the Agenda package.

**2019 NPCC Tie Benefits Study**

Approved as provided in the Agenda package, with a correction to a website reference. Mr. Fedora indicated as a result of discussions at the NPCC Joint Task Forces Chairs meeting, it was suggested that a trending analysis be considered by the Task Force on Coordination of Planning for the next NPCC Tie Benefits Study.

**2019 New England Atea intermediate Transmission Review**

Approved as provided in the Agenda package.

**BPS Risk Reduction Mitigation Extensions**

The Avangrid/NYSEG request for an extension of the BPS Risk Reduction Mitigation Schedule for the Oakdale 230 kV Substation and the Hydro Quebec TransÉnergie request for an extension of the BPS Risk Mitigation Schedule for the Duvernay 315 kV Substation were approved as provided in the Agenda package.

**Items for Approval**

**Revised NPCC Document A-10 – Classification of Bulk Power System Elements**

Ms. Brake reviewed the changes to the revised NPCC Document A-10 – *Classification of Bulk Power System Elements* provided in the Agenda package. She explained that in 2018, the Task Force on Coordination of Planning (TFCP) and the CP-11 Working Group on Review of NPCC Basic Criteria completed a comprehensive review of the A-10 document. In accordance with the TFCP Scope of Work the CP-11 Working Group considered existing and alternative methodologies to 1) identify critical facilities, 2) simplify the methodology, and 3) improve consistency across areas in the application and outcomes of the methodology.

The RCC approved the CP-11 recommendations as presented in the Phase 2 Final Report on the A-10 Review on December 4, 2018. The recommendations contained in the Phase 2 Final Report were incorporated into a revised version of the A-10 document, which was posted to the NPCC Open Process review for two 45-day comment periods.



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The TFCP responded to all comments received in the NPCC Open Process. Concerns were raised during the review at the TFCP meeting including not having consistency in the application of the criteria due to the exception process, Ms. Brake stated the changes achieve the consistency in the level of reliability across the Eastern Interconnection. She said another stated concern was that elements removed by the exception process that are not needed for the greater reliability of the NPCC may have local reliability benefits. Again, the mandate was not to look at local reliability, but NPCC Bulk Power System (BPS) reliability. On November 13, 2019, a consensus of the TFCP approved the revised version of the document.

The TFCP is seeking the RCC's recommendation to send the revised NPCC Document A-10 – *Classification of Bulk Power System Elements* for NPCC Full Membership approval.

Ms. Dawes and Mr. Schwarting provided a summary of the status of the review and revision of Document A-10, the methodology, the new format of the BPS List, and the next steps described in the Agenda package.

Mr. Bradt explained the concerns of the Avangrid companies (Central Maine Power, Rochester Gas & Electric, New York State Electric & Gas and The United Illuminating Company). He acknowledged that the existing A-10 methodology is complex and burdensome to perform. One of the guiding principles to “simplify the methodology” hasn't been accomplished. The revised methodology is similar to today's methodology, and although some improvements were made, there is now an ‘add on’ methodology that is considered ‘optional.’ He believes this approach invites inconsistency and adds another layer of complexity. He said that the exception process is not in-line with the stated principle to “improve consistency across areas in application and outcomes of the methodology.”

Mr. Wegh described the concerns of Eversource Energy. Adding to Mr. Bradt's concerns, he stated that potentially a large portion of the lower voltage system in New England could be excluded from the requirements of NPCC Directory No. 1 through the proposed exception process. Relaxing the reliability requirements between the local area and the Eastern Interconnection is ill-timed given the extremely high penetration of DERs on the lower voltage local systems. Recent events on local systems discussed at previous RCC meetings underscore the importance of the reliability of the lower voltage local systems, not just of the Eastern Interconnection.

Ms. Dawes noted that basing the exclusion process on the existing methodology preserves a performance-based approach; all the modeling techniques developed for analysis of DERs apply.



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Mr. Evans-Mongeon asked who would be responsible for conducting the exclusion testing. Ms. Dawes replied it would be left to the individual NPCC Areas to “self-coordinate.” Mr. Evans-Mongeon asked, if so, how would consistency and uniformity of the exclusion testing be insured? Mr. Schwarting explained the ways the exception process would be coordinated through the Task Force on System Studies (TFSS). The TFSS would review the exception testing assumptions (such as load levels, interface transfers, for example) before the exception test is performed; ultimately the final decision would come before the RCC.

Mr. Evans-Mongeon asked how the input from non-NPCC members would be considered. Ms. Brake responded that the procedure would be no different than today in that respect.

Mr. Henderson said that the review of the A-10 methodology has been active over two years; the extent of the work by the Task Forces, Working Group and RCC has been extensive. He realizes that there may be some disagreements regarding particular aspects in the final product, but that the RCC should not let “the perfect necessarily be the enemy of the good.” The RCC will decide, from an RCC perspective if the revised methodology is sufficient to identify those facilities needed to prevent the uncontrolled cascading of system events to other Areas. While it’s important to understand the impacts of local events and learn from them, the local events discussed recently at previous RCC meetings did not have interregional consequences.

**The RCC then recommended balloting the Revised NPCC Document A-10 – *Classification of Bulk Power System Elements* provided in the Agenda package for Full Member approval (with six opposed; Sector 1 - Transmission Owners – Central Maine Power (Dave Conroy), Eversource Energy (George Wegh), New York State Electric & Gas Corp. (proxy to David Bradt), Rochester Gas & Electric Corporation, (proxy to David Bradt), The United Illuminating Company (David Bradt); Sector 3 – Transmission Dependent Utilities, Distribution Companies and Load Serving Entities - Eversource Energy (Barry Bruun), and one abstention; Sector 5 – Marketers, Brokers, and Aggregators – Utility Services, Inc. (Mr. Evans-Mongeon); written proxy in favor).**

Following the discussion and vote, Mr. Schwerdt explained his role was to make sure the NPCC Membership had the opportunity to weigh in, and consider each perspective, arriving at a conclusion. While maybe not a ‘perfect’ conclusion, it is one that can be advanced. He expressed his appreciation on the good work that was done.

Mr. Crissman added his thanks to everyone having a role in the revision, and appreciated having the opportunity to hear and discuss the differing opinions.





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**Revised NPCC Document A-10 Implementation Plan**

Ms. Brake provided a summary of the A-10 Implementation Plan for the revised NPCC Document A-10 Classification of Bulk Power System Elements provided in the Agenda package. The Revised NPCC Document A-10 Implementation Plan provides time lines associated with testing and reporting in accordance with the revised methodology. The Task Force on Coordination of Planning approved the Revised NPCC Document A-10 Implementation Plan at its February 12, 2020 meeting.

**The RCC then approved the Revised NPCC Document A-10 Implementation Plan provided in the Agenda package (with one abstention; Sector 5 – Marketers, Brokers, and Aggregators – Utility Services, Inc. (Mr. Evans-Mongeon); written proxy in favor).**

Following the vote, Mr. Dunbar explained the timeline for the NPCC membership balloting the Revised NPCC A-10 Document. He noted that the revised NPCC Document A-10 Implementation Plan will not be part of that ballot.

**Discussion Items**

**NPCC 2020 Summer Reliability Assessment**

Mr. Klaube gave an overview of the preliminary results of the 2020 NPCC Summer Reliability Assessment, prepared by the NPCC CO-12 Working Group and included in the Agenda package. Mr. Fedora provided a summary of the NPCC CP-8 Working Group's 2020 Summer NPCC Multi-Area Probabilistic Reliability Assessment, also included in the Agenda package.

The final assessment will be submitted to the Task Force on Coordination of Operation (TFCO), the Task Force on Coordination of Planning (TFCP), and the RCC for comment on April 3, 2020. Following TFCO and TFPC approval, the assessment will be presented to the NPCC Board of Directors at their May 6, 2020 meeting; a media event is scheduled for May 7, 2020.

**Cyber & Physical Security Update**

Mr. Curry summarized the activities related to the BES Cyber Systems Information, CIP Supply Chain and CIP Modifications Standard Drafting Teams, incident reporting and response planning (CIP 008-6), communications between Control Centers (CIP 012) and the IST-4 (Cybersecurity) and IST-5 (Physical Security) Working Groups provided in the Agenda package.



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**Informational Items**

Mr. Crissman noted the June 25, 2020 FERC Reliability Technical Conference, then referred the RCC to the other Informational Items materials provided in the Agenda package.

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

**Next RCC Meeting Date**

Wednesday, May 27, 2020

**Location**

[Subsequently changed to a  
Teleconference]

**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

Ruta Skučas,, Esq.

and

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

La Régie de L’Énergie – Christian Garneau

Ontario Energy Board – Veronica Mendes

United States Department of Energy – David Meyer

New Brunswick Department of Energy and Mines – David Sallows

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