



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

December 14, 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 September 9, 2020 RCC Meeting

Sir / Madam:

Attached are the Minutes of the September 9, 2020 meeting of the NPCC Reliability Coordinating Committee, as approved at the December 1, 2020 RCC meeting.

Sincerely,

Phil Fedora

Philip A. Fedora
Vice President Reliability Services and
Chief Engineer

cc: NPCC Staff



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

Attendance

Officers of the Reliability Coordinating Committee

Randy Crissman, Chair	New York Power Authority
Gabriel Adam, Co-Vice Chair	Ontario IESO

Sector 1 - Transmission Owners

Central Hudson Gas & Electric Corporation	Frank Pace
Central Maine Power Company	(proxy to Edward Mulholland)
Consolidated Edison Company of New York, Inc.	Deidre Altobell
Eversource Energy	Martin Paszek - Alternate
Hydro-One, Inc.	George Wegh
Long Island Power Authority	Ajay Garg - Alternate
National Grid USA	Anie Philip
	Abhinav Rawat
	Mark Domino - Alternate
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.	Nick Kowalczyk
Rochester Gas & Electric Corporation	(proxy to David Bradt)
The United Illuminating Company	David Bradt
Vermont Electric Power Company, Inc.	Hantz Presume

Sector 2 – Reliability Coordinators

Hydro-Quebec TransEnergie	Stephane Desbiens
ISO New England, Inc.	Rich Kowalski
	Jim Helton – Alternate
New Brunswick Power Corporation	Gaetan Beniot -Alternate
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.	(proxy to Martin Paszek)
Eversource	Barry Bruun



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Hydro-Quebec Distribution	Hakim Sennoun - Alternate
Long Island Power Authority	(proxy to Anie Philip)
National Grid	Mike Jones
New Brunswick Power Corporation	Randy MacDonald
Orange & Rockland Utilities, Inc.	Ben Wu

Sector 4 Generation Owners

Consolidated Edison Company of New York, Inc.	(proxy to Martin Paszek)
Dominion Energy, Inc.	Sean Bodkin
Entergy Nuclear Northeast	Glenroy Smith
Long Island Power Authority	(proxy to Anie Philip)
New York Power Authority	Randy Crissman
NextEra Energy Resources	Allen Schriver
Ontario Power Generation	Mike Cooke
	David Kwan - Alternate
Talen Energy Marketing, LLC	Scott Etnoyer
Vistra Energy Corp.	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	Fernando Granito
Utility Services, Inc.	Brian Evans-Mongeon

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

Long Island Power Authority	(proxy to Anie Philip)
New York Power Authority	(proxy to Randy Crissman)
New York State DPS	Humayun Kabir

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

New York State Reliability Council, LLC	Roger Clayton
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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	Senior Vice President and COO
Ryan McSherry	Senior Engineer Operations Coordination
Scott Nied	Assistant Vice President, Compliance
Andrey Oks	Director of Operations Coordination
Shayan Rizvi	Senior RAPA Engineer
Ralph Rufrano	Manager, Events Analysis
Rafael Sahiholamal	Manager, System Protection
Peter Scalici	Manager, Security Outreach Programs
Edward Schwerdt	President & CEO
Guy Zito	Assistant Vice President of Standards
<u>Guests</u>	
Lincoln Burton	Consolidated Edison Company of New York, Inc.
Edward Davidian	Chair, SS-38 Load Management Working Group
George Fatu	Chair, Task Force on System Studies
Farzad Farahmand	Ontario IESO
Robert Grabovickic	National Grid
Aaron Markham	Chair, Task Force on Coordination of Operation
Kai Ni	New York ISO
Anthony Napikoski	Chair, Task Force on System Protection
Edward Roedel	Vice Chair, Task Force on Coordination of Planning
Dan Taft	Consolidated Edison Company of New York, Inc.
William Vesely	Chair, Task Force on Infrastructure Security & Technology

Quorum Statement

Mr. Fedora indicated that a quorum had been achieved, by member attendance, proxy, or alternate designation.

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.



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President & CEO Report

NPCC Board Strategy Session

Mr. Schwerdt provided a summary of the Annual NPCC Board Strategy Session conducted on September 2, 2020. He first shared his best wishes for everyone's continuing health and safety during these challenging and stressful times. These past six months have been a testament to the agility and focus of the Northeastern North American electricity industry professionals. We collectively continue to work tirelessly in every aspect of reliability assurance, operations, planning, system restoration, compliance, etc. Assuring the reliability and security of the international bulk power system has never been more vital and the role that each of us plays in achieving our myriad objectives has never been more critical.

It is against this unprecedented backdrop that the NPCC Board held its September 2, 2020 annual Strategy Session. This regular exercise brings the Board together to reflect on the ever-changing reliability landscape within the Northeast, both in terms of the changes within the electricity industry itself as well as the emerging reliability risks and opportunities we in NPCC face. The Director discussions were wide ranging and thoughtful as the Board considered different perspectives and alternatives for the 3 to 5-year horizon. The session focused on strategic reliability issues related to system planning, energy security, the implementation of decarbonization targets, as well as other emerging reliability issues.

The Board also reviewed emerging reliability risk areas highlighted in the NERC *2020 State of Reliability Report* as well as the existing ERO Enterprise Long Term Strategy document. The output of the Board's discussions will be used to shape future NPCC targeted reliability activities and inform future tactical initiatives around the reliability focus areas of: enhancing system resilience and assuring energy sufficiency; reliably integrating Distributed Energy Resources (with an acknowledgement of implementing decarbonization targets); and addressing physical and ever-changing cyber security threats. NPCC's updated working draft Strategic Plan will also identify potential inputs to NERC's strategic planning considerations as the ERO Enterprise engages with the CEO's of the Regional Entities, the NERC Board of Trustees, and the stakeholders on the Member Representatives Committee.

Additionally, the NPCC Directors reviewed and re-affirmed the Board's collective commitment to organizational excellence and the core values of: fairness and inclusiveness; integrity, ethics and compliance; and accountability, adaptability and innovation in all of its activities. Mr. Schwerdt encouraged everyone to revitalize and refresh whenever possible. Ours is an essential and unending commitment for the benefit of society at large. We need to continue to be at our best as we try to achieve that.



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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.

Nominating Committee

At the last meeting, the RCC formed a Nominating Committee (consisting of Messrs. Evans-Mongeon, Fedora, Garg and Wegh) to recommend a candidate (or candidates) for the position of a 2020 Co- Vice Chair to replace Dave Conroy, who retired August 1, 2020. According to the Amended and Restated Bylaws of Northeast Power Coordinating Council, Inc. (Section VI – 6.1(c), page 7 - “Two (2) Co- Vice Chairs from different voting sectors...shall be selected...”).

The Nominating Committee recommended Anie Philip for the position of RCC Co-Vice Chair; she has been LIPA's RCC member since 2012. She indicated her willingness and ability to serve. She is a member of Sector 1 (Transmission Owners), so there is no conflict with Gabriel Adam, Co-Vice Chair (Sector 2 – Reliability Coordinators).

Mr. Crissman indicated that another Nominating Committee needs to be formed to recommend candidate(s) for the position of 2021 RCC Co-Vice Chair. He asked for volunteers for the Nominating Committee and asked Mr. Fedora to coordinate their efforts. Messrs. Wegh, Evans-Mongeon and Garg volunteered to continuing serving on the Nominating Committee.

NPCC Website Update

Mr. Hogue reported that an enhanced and updated NPCC website (www.npcc.org) is scheduled to go live on August 15, 2020. The new design provides new interfaces for the public and NPCC Members with increased security and monitoring. Additional information regarding the new NPCC website was included in the Agenda package.

December 1, 2020 RCC Meeting

Mr. Fedora indicated that given the current situation, the December 1, 2020 RCC meeting will be held via WebEx.

Proposed 2021 RCC Meeting Dates and Locations

Mr. Fedora presented the following proposed 2021 RCC Meeting Dates and Locations:

- ✓ Wednesday March 3, 2021 – Teleconference or WebEx meeting
- ✓ Wednesday May 26, 2021 – Teleconference or WebEx meeting



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- ✓ Wednesday September 8, 2021 – Teleconference or WebEx meeting
- ✓ Tuesday November 30, 2021 – Halifax, Nova Scotia
- ✓ (in conjunction with the NPCC 2021 Board/Annual/General Meetings)

Development of the 2021-22 Task Force/RCC Work Plans

Mr. Fedora reminded the RCC that the development of the RCC's 2021 -2022 Work Plan follows the RCC approval of the NPCC 2021-2022 Task Force Work Plans at the December 1, 2020 RCC meeting.

RCC Scope Update

Mr. Crissman referred to the RCC Scope provided in the Agenda package, which was approved by the NPCC Board at its meeting on January 29, 2020. He asked the RCC to review and provide Mr. Fedora with any comments/changes prior to the December 1, 2020 RCC meeting; following a RCC recommendation for approval, the NPCC Board will consider the RCC Scope at its January 2021 meeting.

September 17, 2020 NPCC Dynamic Modeling Workshop

Mr. Le reported that NPCC will be holding a Virtual Workshop on September 17, 2020 to improve stakeholder coordination between Transmission and Distribution entities to support dynamic modeling and analysis. The workshop emphasis will be on accurate modeling of generation, including Distributed Energy Resources (DERs). State/Provincial Regulators, the NPCC SS-38 Load Modeling Working Group, Planning Coordinators, Distribution Providers, DER developers, and manufacturers of inverters/complementary dynamic devices have been invited to present at this workshop. Registration details are provided in the Agenda package.

October 15, 2020 NPCC Distributed Energy Resources (DER) Forum

Mr. Crissman summarized the last NPCC DER Forum that was held on October 15, 2020.

November 20, 2020 RCC Informational Webinar

Mr. Fedora reported that on November 20, 2020 a RCC Webinar will be conducted to receive reports on the following NPCC 2020 Corporate Goals:

- ✓ IB-2 - Enhance the reference document on restoration plans to evaluate the impacts of critical infrastructure interdependencies on a consistent basis;
- ✓ 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; and,
- ✓ III-3 - Expand NPCC physical security programs and activities, including increasing coordination and collaboration with the critical cross-sectors to mitigate interdependencies' risk in the areas of physical security.



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Policy Discussion

NPCC Board Activities

Mr. Crissman reviewed the Policy Input provided to the NERC Board of Trustees from the NPCC Board of Directors regarding; 1) E-ISAC Near-Term Operational Focus Areas; and 2) E-ISAC Long-Term and Additional Strategic Focus Areas. The Policy input was included in the Agenda package.

NERC Member Representatives Committee/Board of Trustees Activities

Mr. Crissman discussed the key actions taken at the NERC Member Representatives Committee/Board of Trustees August 20, 2020 meetings provided in the Agenda package. They included approval of the 2021 Business Plans and Budgets for NERC and the Regional Entities, acceptance of the updated E-ISAC Long-Term Strategy, and changes to the NERC Rules of Procedure and NERC Bylaws. The approved revisions to NERC's bylaws are in two primary areas: membership sectors and the criteria for an independent trustee. The revisions will be submitted to FERC for approval. In addition, the NERC Member Representatives Committee elected a new member to the NERC Board of Trustees.

September NPCC Board Long-Range Strategy Session

Mr. Schwerdt reviewed the September 2, 2020 NPCC Board Long-Range Strategy Session; the session began with an informational session on system planning, emerging reliability issues and energy security, with background and strategic materials supplied by NPCC Board members. The NPCC Board also considered the emerging reliability risk areas from the NERC *2020 State of Reliability Report* as well as the current ERO Enterprise Long Term Strategy. Based on the discussion and prioritization of the identified challenges and risks to reliability facing the industry, the NPCC Board plans to consider incorporating additional shorter term and longer-term issues into the *NPCC Working Draft Strategic Plan 2021 – 2024*.

Development of NPCC 2021 Corporate Goals

Mr. Fedora indicated that development of NPCC's 2021 Corporate Goals will follow RCC approval of the NPCC 2021-2022 Task Force Work Plans and RCC Work Plan at the December 1, 2020 RCC meeting. The NPCC's 2021 Corporate Goals will focus on the strategic reliability issues related to system planning, energy security, the implementation of decarbonization targets, as well as other emerging reliability issues being considered for the NPCC *Working Draft Strategic Plan 2021 – 2024*.



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NERC Reliability and Security Technical Committee

Messrs. Crissman and Evans-Mongeon reviewed the items scheduled for approval at the September 15, 2020 Reliability and Security Technical Committee (RSTC) Agenda included in the Agenda package. In addition, the RSTC proposed an operating model with three focus areas and 23 supporting subgroups. The proposal also includes assigning RSTC members as Sponsors for specific subgroups within program areas. The program areas are supported by RSTC sponsors and NERC staff. Security is expected to be a consideration for each subgroup, where appropriate.

A part of the proposal is the development of a new Security Integration and Technology Enablement Subcommittee (SITES). The activities of SITES is intended to help industry adopt emerging technologies in a secure, reliable, and resilient manner, with a focus on work products that assist in integrating these technologies in a manner that complements grid planning, design, operations, and restoration practices.

Mr. Crissman noted that the NPCC Task Forces need to align their respective 2021 - 2022 Work Plans to include consideration of participation in RSTC subgroups related to their activities.

Consent Agenda

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

May 27, 2020 Meeting Minutes

The minutes were 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

- ✓ Edward Mulholland to replace Dave Conroy as the representative for the Central Maine Power Company; Dave Conroy has retired.
- ✓ Mark Stevens to replace Matt Sadler as the alternate representative for the Central Maine Power Company.

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

- ✓ Lincoln Burton to replace Chris Overberg as alternate for the Consolidated Edison Company of New York.



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Task Force Roster Changes

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

Task Force on Coordination of Planning

- ✓ Jacob Lucas to replace Digaunto Chatterjee as a member, both of Eversource.
- ✓ Kirpal Bahra to replace Farooq Quresky as alternate, both of Hydro One Networks, Inc.

Task Force on System Protection

- ✓ Ralph Mazzatto will no longer serve as a member for the Consolidated Edison Company.

Task Force on System Studies

- ✓ Rodolfo (Rudi) Vega to replace Alex Rost as alternate, both of the ISO New England.

Task Force on Coordination of Operation

- ✓ Ioan Agavriloai to replace Kyle Russell as an alternate for the Ontario IESO.

System Operations Managers Working Group (CO-8)

- ✓ Ioan Agavriloai to become the Ontario IESO member, serving as Vice-Chair, replacing Kyle Russell.
- ✓ Kyle Russell of the Ontario IESO as an alternate.
- ✓ Jon Gravelin to replace Ken Dorantes as an alternate for ISO New England.
- ✓ Marc Theriault to replace Rod Hicks as an alternate for New Brunswick Power.
- ✓ Ryan McSherry to replace Neeraj Lal as alternate representative for NPCC.

Task Force on Infrastructure Security & Technology

- ✓ Anirudh Bhimireddy as a New York Power Authority alternate.
- ✓ Apoorva Kukde as a National Grid alternate.
- ✓ Avani Pandya as a Consolidated Edison Company alternate.
- ✓ Bill Temple as The United Illuminating Company alternate.
- ✓ Kristi Honey will no longer serve as an Ontario Power Generation Inc. alternate.
- ✓ Al Lewis will no longer serve as a Consolidated Edison Company alternate.
- ✓ Parisa Mahdian will no longer serve as an Ontario Power Generation Inc. alternate.
- ✓ Kip Winrow will no longer serve as a Consolidated Edison Company alternate.

CO-2 Working Group on System Operator Training

- ✓ Ryan McSherry as primary representative for NPCC.
- ✓ Andreas Klaube as alternate representative for NPCC.
- ✓ Scott Fletcher to replace Rob Kapteyn as the Ontario IESO member.
- ✓ Rob Kapteyn to replace Scott Fletcher as the Ontario IESO alternate.
- ✓ Justin Shumaker to replace Tom Turgeon as the ISO-New England member.
- ✓ Vicki von Richter as a New Brunswick Power alternate.

CO-11 Working Group on Restoration

- ✓ Adam Hargrave and Rajalakshmi Narayana to become the New York ISO alternates, succeeding Harris Miller.



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SS-37 Working Group on Base Case Development

- ✓ Dean Latulipe of National Grid will no longer serve a National Grid alternate.
- ✓ Shayan Rizvi as alternate representative for NPCC.

SS-38 Working Group on Inter-Area Dynamic Analysis

- ✓ Kai Ni of the New York ISO to replace Dean Latulipe of National Grid as Chair.
- ✓ Saad Hameed to replace Edwin Thompson as the Consolidated Edison Company member.

IST-4 Cyber Security Working Group

The IST-4 Working Group has been repurposed following a request by the Task Force on Coordination of Operation to the Task Force on Infrastructure Security and Technology to develop a coordinated approach to the implementation of CIP-012-1. All members previously on IST-4 have been removed and the group has been repopulated:

- ✓ Stephen Graber as member representing the New York ISO.
- ✓ Matthew Morgan as the New York ISO alternate.
- ✓ Dennis Van Amburgh as the New York ISO alternate.
- ✓ James McNierney as the New York ISO alternate.
- ✓ Eric Drummie as the New Brunswick Power member.
- ✓ Etienne Piché as the Hydro-Quebec -TE member.
- ✓ Rob Antonishen as the Ontario IESO member and new Vice-Chair.
- ✓ John Galloway as the ISO-New England member and new Chair.
- ✓ Brian Hogue as alternate representative for NPCC.
- ✓ Ryan McSherry as primary representative for NPCC.

Nominating Committee RCC Co-Vice Chair Recommendation

Approved as provided in the Agenda package.

Directory No. 1 Implementation Plan(s)

Approved as provided in the Agenda package.

SS-39 – Working Group on Geomagnetic Disturbance Roster

Approved as provided in the Agenda package.

NPCC Directory No. 1 – A-10 Conforming Changes

Approved as provided in the Agenda package.

NPCC Directory No. 8 - Clarification

Approved as provided in the Agenda package.



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Items for Approval

2019 NPCC CCEP Assessment Report

Mr. Nied reported that on July 15, 2020, the NPCC Compliance Committee (CC) voted to approve the CCEP Assessment Report. The *CCEP-1 Process Document* directs the CC to present an annual assessment report for approval at the 3rd quarter 2020 RCC meeting. Upon assessment of the 2019 CCEP Certification forms submitted by Full Members, the CC concurs that the following non-compliances, provided in the Agenda package occurred:

- ✓ Eversource – Directory No. 4;
- ✓ Avangrid – Directory No. 11; and,
- ✓ National Grid – Directory No. 11.

The CC recommended that the RCC accept the CC concurrence of noncompliance presented in the assessment report.

The RCC then unanimously approved the 2019 NPCC CCEP Assessment Report Transmission provided in the Agenda package.

Mr. Nied indicated that following RCC approval of the *2019 NPCC Criteria Compliance Enforcement Program Assessment Report*, in accordance with Section 4.5 and Section 5.1 of the CCEP-1 Process Document (Revision 7, 4/22/20) a letter will be sent to the CEOs of the noncompliant Full Members that includes a recap of the noncompliance, the status of mitigation activities, and an explanation of the assessment by the CC and subsequent acceptance by the RCC.

Ontario Leamington Type I Special Protection System

Mr. Farahmand said the Ontario IESO has requested approval from NPCC of modifications to the Ontario Leamington Type III SPS No. 238 to Type I classification, as provided in the Agenda package. The existing Leamington Type III SPS, if armed, rejects load in the Leamington region in response to contingencies on the Chatham-Keith 230 kV path, the Chatham-Lauzon 230 kV path or Brighton Beach units, in order to resolve thermal violations on the remaining circuits.

The Ontario IESO proposes to modify this SPS to include contingencies on all of the 230 kV circuits that are terminated at Chatham TS, including some BPS elements, in order to facilitate outage management and system re-preparation following the first contingency for the existing power system and to ensure the system can be operated reliably in the long term as load continues to grow in the region.

In addition, modifications are required to the SPS to reflect planned changes in the transmission system in the region (e.g., to accommodate new circuit terminations and new load connections).



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The modifications to the Leamington SPS will be carried out in stages, which will coincide with the staging of the planned reinforcements.

The Task Force on Systems Studies concurs with the Ontario IESO that the classification of the SPS should change to Type I after the proposed modifications to the SPS are implemented. The Type I classification for this SPS is due to a possible significant adverse impact outside of the local area when the SPS fails to operate.

At its May 13-14 2020 meeting, the Task Force on Coordination of Operation, reviewed the operability of the modified and reclassified Leamington Type I SPS and concluded that it can be operated in a secure and reliable manner and recommends the approval of this Special Protection System.

The Task Force on System Protection agreed that this modification is designed in conformance with the intent of the criteria in NPCC Directory No. 7, *Special Protection Systems*.

At its August 19-20, 2020 meeting, the Task Force on Coordination of Planning reviewed the Task Forces findings and also reviewed the Ontario IESO's request for the proposed staged modifications of the Leamington Type III SPS and reclassification of this SPS to Type I. The Task Force on Coordination of Planning agreed that this proposal is in conformance with NPCC Regional Reliability Reference Directory No. 1 *Design and Operation of the Bulk Power System*, and recommends RCC approval of this proposed new Type I SPS.

After discussion, the RCC approved the Ontario Leamington Type I Special Protection System provided in the Agenda package (with Consolidated Edison Company of New York, Inc. abstaining (Sectors 1,3,4 and 5)).

Discussion Items

Con Edison August 7, 2020 Rainey Substation Event

Mr. Taft reviewed the August 7, 2020 New York City Rainey Substation event. The event resulted in the isolation of faults at the Rainey substation that precipitated the loss of several New York City electrical networks.

NPCC Directory No. 7 Status

Ms. Brake summarized the status of the NPCC Directory No. 7 revision provided in the Agenda package. The NPCC Open Process review of draft revised Directory No. 7 included:

- ✓ Alignment of the existing regional review process with PRC-012-2;
- ✓ A revised NPCC Glossary definition for Special Protection Systems;
- ✓ Revisions to the existing approval process for a Type I and Type II RAS;
- ✓ Replacement of the term "Type III SPS" with "Limited Impact RAS"; and,



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- ✓ A cost effectiveness survey as required by the NPCC Directory Development and Revision Manual.

The final draft revised Directory No. 7 is anticipated to be submitted for approval at the December 1, 2020 RCC meeting, which will be followed by a ballot of the NPCC Membership for approval.

September RCC NPCC Goal Deliverables

The following presentations, provided in the Agenda package were given:

Goal IA-1

Mr. Rufrano reported on trending NPCC extreme contingency test data from approved NPCC Area Transmission Reviews and prior NPCC Overall Transmission Assessments to assess system strength/robustness.

Goal IB-2

Mr. Klaube identified the critical infrastructure interdependencies that should be considered during restoration activities and presented the developed reference document.

Goal II-3

Mr. Lal compared short-circuit fault calculations of NPCC Areas to determine the modeling consistency at a given common bus location.

Goal III-1

Mr. Oks provided an overview of the system operator training developed to coordinate and enhance operator preparedness for responding to a cyber security event.

Goal III-3

Mr. Scalici identified threat trends and recommended mitigations for Physical security weaknesses, leveraging the smart practices guidance document.

Protection System Misoperation Reporting

Mr. Sahiholamal noted that the future NERC ERO Reliability Standard PRC-012-2 contains requirements for RAS operation (or a failure) reporting that are associated with the revised Directory No. 7. Mr. Crissman asked the Task Force on Coordination of Planning and the Task Force on System Protection develop a recommendation to be considered at the December 1, 2020 RCC meeting.



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Cyber & Physical Security Update

Messrs. Hogue and Vesely summarized the Task Force on Infrastructure Security & Technology's Cyber & Physical Security update provided in the Agenda package:

- ✓ CIP Supply Chain – expecting a 10-day ballot period in October, followed by a NERC Board of Trustees vote in November;
- ✓ BES Cyber Systems Information - Standards Development Team - First steps in explicitly accommodating emerging technology (cloud) in the CIP Standards;
- ✓ CIP Modifications Standards Drafting Team - sent CIP-002-6 comments and ballot recommendations to Regional Standards Committee;
- ✓ Evidence Request Tool - NERC Compliance Input Working Group pushing back on providing confidential information to CIP off-site auditors;
- ✓ IST-4 / Communications between Control Centers - new IST-4 Working Group roster for CIP-012 with expertise in Cyber Security, Telecommunications and Operations;
- ✓ IST-5 - Physical Security Working Group - tracking emerging trends (including threat trends and possible mitigation) and updating the confidential Smart Practices document; and,
- ✓ Incident Reporting and Response Planning - CIP-008-6 applicable on January 1, 2021.

Informational Items

Mr. Crissman 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

December 1, 2020

Location

[Changed to a WebEx meeting]

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.

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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.