



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

June 8, 2019

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, 2019 RCC Meeting

Sir / Madam:

Attached are the Minutes of the February 27, 2019 meeting of the NPCC Reliability Coordinating Committee, as approved at the May 29, 2019 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, 2019**

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
Dave Conroy, Co-Vice Chair	Central Maine Power Company
Gabriel Adam, Co-Vice Chair	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.	Martin Paszek – Alternate (via phone)
Eversource Energy	George Wegh
Hydro-One, Inc.	Ajay Garg - Alternate
Long Island Power Authority	Anie Philip (via phone)
National Grid USA	Brian Hayduk
New York Power Authority	(proxy to Randy Crissman)
New York State Electric & Gas Corp.	(proxy to Dave Conroy)
Nova Scotia Power, Inc.	Joy Brake – Alternate
Orange & Rockland Utilities	(proxy to Martin Paszek – via phone)
Rochester Gas and Electric	Will Nichols – Alternate -via phone)
The United Illuminating Company	David Bradt
Vermont Electric Power Company, Inc.	Hantz Presume

Sector 2 – Reliability Coordinators

Hydro-Quebec TransEnergie	(via written proxy)
ISO New England, Inc.	Michael Henderson
	Rich Kowalski – Alternate (via phone)
New York ISO	Kevin DePugh
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 – via phone)
Eversource Energy	Barry Bruun
Hydro-Quebec Distribution	Hakim Sennoun (Alternate – via phone)
Long Island Power Authority	(proxy to Anie Philip – via phone)



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
February 27, 2019

New York Power Authority	(proxy to Randy Crissman – via phone)
New Brunswick Power Corporation	Randy MacDonald (via phone)

Sector 4 Generation Owners

Consolidated Edison Company of New York, Inc.	(proxy to Martin Paszek – via phone)
Dominion Energy, Inc.	(via written proxy)
Long Island Power Authority	(proxy to Anie Philip – via phone)
New York Power Authority	Randy Crissman
NextEra Energy Resources	Allen Schriver (via phone)
Ontario Power Generation	Michael Cooke
	David Kwan - Alternate
Talen Energy Supply, LLC	(via written proxy)
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

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

New York State Reliability Council, LLC	Roger Clayton
---	---------------

NPCC Staff

Sal Buffamante	Assistant Vice President, Compliance
Phil Fedora	Assistant Vice President, Reliability Services
Brian Hogue	Information Systems & Security Management
Andreas Klaube	Senior Engineer, Operations
Quoc Le	Manager, System Planning and Protection
Michael Lombardi	Manager, System Studies
Jennifer Budd Mattiello (via phone)	Senior Vice President & COO
Andrey Oks	Director of Operations Coordination
Paul Roman	Director, Operations Planning
Ralph Rufrano	Manager, Events Analysis
Edward Schwerdt	President & CEO

February 27, 2019



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
February 27, 2019

Guests

Samuel Bussières	Hydro-Québec TransÉnergie
Farzad Farahmand	Ontario IESO
Xia Jiang (via phone)	New York Power Authority
Dean Latulipe (via phone)	Chair, SS-38 Working Group
Aaron Markham	Chair, Task Force on Coordination of Operation
Alan MacNaughton (via phone)	New Brunswick Power Corporation
Anthony Napikoski	Vice Chair, Task Force on System Protection
Sunil Palla (via phone)	New York Power Authority
Michael Ridolfino	Central Hudson Gas & Electric Corporation
Ben Wu	Orange & Rockland Utilities

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 proxies:

Sector 2 – Reliability Coordinators

Stephane Desbiens – Hydro-Quebec TransEnergie

Sector 4 – Generator Owners

Sean Bodkin – Dominion Energy, Inc.

Scott Etnoyer – Talen Energy Supply, LLC

Antitrust Guidelines for NPCC Meetings

A motion made and seconded to waive the reading of the NPCC Antitrust Compliance Guidelines unanimously passed.

President & CEO Report

NPCC Strategic Reliability Challenges

Mr. Schwerdt reported that during its January 30th meeting, the NPCC Board considered key strategic reliability challenges that the Members will be facing over the next three years. That discussion was informed by the work of the NERC Reliability Issues Steering Committee and its 2018 Report on reliability risk priorities, as well as several strategic sessions that the Board has conducted. As part of its reviews, the Board noted that significant changes in resource mix, a proliferation of fast-acting digital protection and control technologies, and increased integration of distributed energy resources are anticipated at a pace never before seen. Additionally, cyber and physical security concerns, and increasing infrastructure interdependencies are becoming more central factors in a reliable bulk power system.



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
February 27, 2019

These changes will also likely introduce new players into the reliability equation, will impact how NPCC measures reliability, and will likely affect how risks are managed. Cyber and physical security concerns, and the expansion of distributed energy resources may also create jurisdictional challenges as the line between distribution and bulk power blurs, and events on the distribution system may impact the Bulk Power System (BPS). He summarized some of the major emerging challenges that NPCC will face as it strives to preserve its current strengths and achievements in assuring BPS reliability.

As an example of some of the high-level, ongoing thinking around one of these issues, “Enhancing Resilience”, a potential approach to a qualitative look at resilience could include measures around increasing the reliability of the pre-event starting point, reducing the depth of the post-contingency trough, and decreasing the recovery time. Establishing a common language around resilience and developing useful metrics to quantitatively assess the effects of specific reliability requirements could aid in future reliability and resilience assessments.

A number of the reliability objectives established within the NPCC 2019 Corporate Goals are specifically targeted to address the three highlighted strategic reliability challenges. As an example, within the Standards area, the objective of developing a coordinated Regional approach to reliability guidelines for distributed energy resources is established. Within the reliability assessment and performance analysis area, goals to address energy sufficiency considerations, and the modeling and analysis of Distributed Energy Resources are included, in addition to the previously referenced objectives around resilience. Lastly, corporate reliability objectives related to member outreach to address evolving cyber and physical threats are included.

He concluded that these and the other approved corporate goals serve to both augment NPCC’s reliability assurance efforts outlined in the 2019 NPCC Business Plan & Budget and begin to address critical future reliability challenges and opportunities.

Chair Report

Agenda

Mr. Crissman reviewed the Agenda provided in the Agenda package; no changes were made.

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

NPCC 2019 Corporate Goals

Mr. Crissman stated that the RCC to the NPCC 2019 Corporate Goals (included in the Agenda package) were approved by the NPCC Board at their January 30, 2019 meeting.



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
February 27, 2019

Approved RCC Scope of Work

Mr. Crissman reported that the NPCC Board approved the RCC Scope of Work, included in the Agenda package, at their January 30, 2019 meeting. He noted that the Board asked the RCC to specifically reflect the associated Task Force resilience activities in future RCC Scopes.

Approved RCC 2019 – 2020 Work Plan

Mr. Crissman reported that the NPCC Board approved the 2019-2020 RCC Work Plan, included in the Agenda package, at their January 30, 2019 meeting.

Consent Agenda

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

December 4, 2018 Meeting Minutes

Mr. Fedora reviewed the changes received; the Draft-For-Approval Minutes of the December 4, 2018 Reliability Coordinating Committee were then approved, with the noted changes.

RCC Membership Changes

The following changes to RCC Membership were approved:

Sector 1 - Transmission Owners

- ✓ Michael E. Ridolfino succeeds Erin Doane both of Central Hudson Gas & Electric Corporation as the alternate.

Sector 2 - Reliability Coordinators

- ✓ Alan MacNaughton of the New Brunswick Power Corporation succeeds Marc Roy as the member.

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

- ✓ Michael Jones as the National Grid representative.

Sector 4 - Generator Owners

- ✓ Bruce Fardanesh succeeds Robert Knowlton both of the New York Power Authority as the alternate.

Task Force Roster Changes

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

Task Force on Coordination of Planning

- ✓ Ms. Joy Brake of Nova Scotia Power, Inc. serves as Chair succeeding Mr. Gabriel Adam of the Ontario Independent Electricity System Operator.
- ✓ Mr. David Bradt of The United Illuminating Company, Inc. succeeds Ms. Joy Brake of NSPI as the Vice Chair.
- ✓ Mr. Kevin DePugh of New York Independent System Operator as the member.
- ✓ Mr. Bharath Annabathina of the New York Power Authority as the member.



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
February 27, 2019

- ✓ Mr. Xia Jiang of the New York Power Authority as an alternate.
- ✓ Digaunto Chatterjee succeeds Mr. George Wegh as the member from Eversource Energy.
- ✓ Ahmed Maria as the member of the Ontario Independent Electricity System Operator as the member, replacing Mr. Gabriel Adam.
- ✓ Christopher Reali succeeds Vithy Vithyanathan of the Ontario Independent Electricity System Operator as an alternate.
- ✓ Yves Dufort of Hydro-Quebec Distribution succeeds Sylvie Gicquel as an alternate.

Task Force on Coordination of Operations

- ✓ Aaron Markham of the New York ISO succeeds Patrick Doyle as the chairman.
- ✓ Alan McNaughton of New Brunswick Power succeeds Marc Roy as a member and the new Vice-Chair.
- ✓ Jason Boniface of Hydro One succeeds John Procyk as the member

Task Force on System Studies

- ✓ Xia Jiang of the New York Power Authority succeeds Bharath Annabathina as the alternate.

Task Force on System Protection

- ✓ Mr. George Wegh of Eversource Energy as an alternate.
- ✓ Mr. Chad Dwelley of IRONHOUSE Inc. as an alternate.

Task Force on Infrastructure Security & Technology

- ✓ Nicole Mosher of Nova Scotia Power Inc. succeeds Rod Smith as the member.
- ✓ David Lemstra of the Ontario Power Generation Inc. as an alternate.
- ✓ Calvin Curry of Orange and Rockland Utilities Inc as the member.
- ✓ Sharon Paturzo of The United Illuminating Company as the member.
- ✓ William Harris of Utility Services Inc. as an alternate.
- ✓ Nate Tremmel of Utility Services Inc. as an alternate.
- ✓ Brian Bouyea of the New York ISO is no longer a member.
- ✓ Alan Wong of Hydro One Inc no longer a member.

CO-11 Working Group on Restoration

- ✓ Mr. Robert Haromszeki succeeds Warren Tracz as an alternate for Hydro One.

SP-7 Working Group on Protection System Misoperation Review

- ✓ Mr. Chad Dwelley of IRONHOUSE Inc. as an alternate.
- ✓ Mr. Jack DiOdoardo of Central Hudson Gas & Electric as a member.
- ✓ Mr. Zarin Schildhorn of Central Hudson Gas & Electric as an alternate.

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

- ✓ Haretha Alao of Hydro-Quebec Distribution succeeds Abdelhakim Sennoun as an alternate.

SS-37 Working Group on Base Case Development

- ✓ Devinder Badhan of the Ontario IESO succeeds Mr. Mohab Elnashar as the member.
- ✓ Mohab Elnashar of the Ontario IESO succeeds Mr. Devinder Badhan as an alternate.
- ✓ Scott Ciabattari of the New York ISO succeeds Mr. Andrew Zielinski as the member.
- ✓ Iman Kiaei of the New York Power Authority as a member.



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
February 27, 2019

- ✓ Khin Swe of the New York Power Authority as an alternate.
- ✓ Bryce Clothier succeeds Ms. Joy Brake as an alternate of Nova Scotia Power, Inc.

IST-4 Working Group on Cyber Security

- ✓ Sharon Paturzo of The United Illuminating Company as an alternate.

SPS/RAS, BPS, UVLS, and DCT Exclusions List(s)

Approved as provided in the Agenda package.

NYPA Alternate UFLS Plan

Approved as provided in the Agenda package.

2018 Ontario Interim Area Transmission Reviews

Approved as provided in the Agenda package.

Reliability Coordinating Committee Actions

HQTE modification of the Type I Generation Rejection and Remote Load Shedding Special Protection System SPS No.134 (RPTC)

Mr. Bussi res explained that Hydro-Qu bec Trans nergie (HQTE) is requesting NPCC approval of a proposed modification of its Type I generation rejection and remote load shedding special protection system SPS No.134 (RPTC).

His presentation to the RCC, provided in the Agenda package, states that the RPTC is an important part of the Hydro-Qu bec Trans nergie's special protection system to maintain the 735 kV system stability by performing generation rejection and/or remote load shedding following extreme contingencies involving the simultaneous loss of several 735 kV lines.

The addition of the new 735 kV line between Chamouchouane and Duvernay substations and the addition of the 735 kV Judith-Jasmin substation requires modifying the existing RPTC SPS to monitor new specific extreme contingencies. The modifications will monitor the loss of multiple lines south of Chamouchouane substation considering the new topology of the system. Similarly, changes associated to the addition of the Judith-Jasmin substation must be reflected in the monitoring of events involving the loss of multiple lines south of La V rendrye substation. Those changes require modifications to the SPS settings.

In accordance with the NPCC Regional Reliability Reference Directory No. 7 - *Special Protection Systems*, the Task Force on System Studies reviewed the Hydro-Quebec modified RPTC Type I SPS (No. 134) and concurred with the classification as Type I.

The NPCC Task Force on Coordination of Operation, at its meeting on January 16-17, 2019, reviewed the operability of the proposed modification to the NPCC Type I RPTC SPS No. 134 and concluded that it can be operated in a secure and reliable manner and recommends approval.



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
February 27, 2019

At the January 22-24, 2019 Task Force on System Protection (TFSP) meeting, Hydro Quebec TransEnergie presented the proposed modification to the Type I SPS No. 134 - RPTC. Based on the information presented, the TFSP accepted the statement made by Hydro Quebec TransEnergie that the protections associated with this modification are designed in conformance with the intent of the criteria in NPCC Directory No. 7 - *Special Protection Systems*.

The Task Force on Coordination of Planning reviewed these Task Forces findings at its February 5-6, 2019 meeting and agreed that the SPS is in conformance with NPCC Regional Reliability Reference Directory No. 1 - *Design and Operation of the Bulk Power System* and recommends RCC for approval of this Type I SPS modification.

After discussion, the RCC approved the HQTE modification of the Type I Generation Rejection and Remote Load Shedding Special Protection System SPS No.134 (RPTC) provided in the Agenda package (all written proxies in favor, with Consolidated Edison Company of New York, Inc. abstaining (Sectors 1,3,4 and 5)).

HQTE modification to the existing Type II SPS No. 151 (SPSR)

Mr. Bussières explained that Hydro-Québec TransÉnergie (HQTE) is requesting NPCC approval of a proposed modification of its existing Type II SPS No. 151 (SPSR).

His presentation to the RCC, provided in the Agenda package states that the SPSR is an important part of HQTE's special protection system designed to protect their 735 kV system against extreme contingencies. Its purpose is to protect equipment from damaging overvoltage conditions following a system instability or separation by rapidly dismantling the isolated system.

Modifications to the SPSR to incorporate the new Chamouchouane-Duvernay 735 kV line are necessary to properly detect the loss of the East James Bay corridor south of Chamouchouane substation considering the new topology of the system. Similarly, changes associated to the addition of the Judith-Jasmin substation must be reflected in the detection of the loss of the West James Bay corridor. Those changes require modifications to the SPS settings.

In accordance with the NPCC Regional Reliability Reference Directory No. 7 - *Special Protection Systems*, the Task Force on System Studies reviewed the Hydro-Quebec modified SPSR Type II SPS (No. 151) and concurred with its classification as a Type II.

The Task Force on Coordination of Operation, at its meeting on January 16-17, 2019, reviewed the operability of the proposed modification to the NPCC Type II SPSR SPS No. 151 and concluded that it can be operated in a secure and reliable manner and recommended the approval of this Special Protection System.



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
February 27, 2019

Hydro Quebec TransEnergie presented the proposed modification to the Type II SPS No. 151 – SPSR at the January 22-24, 2019 Task Force on System Protection (TFSP) meeting. Based on the information presented, the TFSP accepted the statement made by Hydro Quebec TransEnergie that the protections associated with this modification are designed in conformance with the intent of the criteria in NPCC Directory No. 7 - *Special Protection Systems*.

The Task Force on Coordination of Planning reviewed these Task Forces findings at its February 5-6, 2019 meeting, and agreed that the SPS is in conformance with NPCC Regional Reliability Reference Directory No.1 - *Design and Operation of the Bulk Power System* and recommends RCC approval of the Type II SPS modification.

After discussion, the RCC approved the HQTE modification to the existing Type II SPS No. 151 SPSR provided in the Agenda package (all written proxies in favor, with Consolidated Edison Company of New York , Inc. abstaining (Sectors 1,3,4 and 5)).

Ontario Saunders Type I Special Protection System (SPS) No. 237

Mr. Farahmand explained that the Ontario Independent Electric System Operator is requesting NPCC approval for the proposed Type I Saunders SPS. His presentation, provided in the Agenda package, described how this SPS will protect the 230 kV circuits in the St. Lawrence area from overloading, and prevent units in the area (including the New York Moses plant) to lose synchronism if there are also outages on certain critical elements in the New York following certain combinations of outages and contingencies.

In accordance with the NPCC Regional Reliability Reference Directory No. 7 - *Special Protection Systems*, the Task Force on System Studies reviewed the proposed separation of the existing Saunders-Beauharnois GR Type III SPS (No. 191) into two SPSs. The Beauharnois GR SPS will be a Type III SPS. The Saunders SPS will be a Type I SPS. The TFSS concurred with the classifications of these SPSs.”

The Task Force on Coordination of Operation, at its December 6-7, 2018 meeting, reviewed the operability of the proposed Type I Saunders SPS and concluded that it can be operated in a secure and reliable manner and recommends its approval.

The Task Force on System Protection (TFSP) reviewed the proposed Type I Saunders SPS at its January 22-24, 2019 meeting. Based on the information presented, the TFSP accepted the statement made by Hydro One and Ontario Power Generation that the protections associated with this modification are designed in conformance with the intent of the criteria in NPCC Directory No. 7 - *Special Protection Systems*.

The Task Force on Coordination of Planning reviewed these Task Forces findings at its February 5-6, 2019 meeting, and agreed that the SPS is in conformance with NPCC Regional



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
February 27, 2019

Reliability Reference Directory No. 1 - *Design and Operation of the Bulk Power System* and recommends RCC approval.

After discussion, the RCC approved Ontario Saunders Type I SPS No. 237 provided in the Agenda package (all written proxies in favor, with Consolidated Edison Company of New York, Inc. opposed (Sectors 1,3,4 and 5)).

Items for Discussion

January 2019 Events

Mr. Lombardi informed the RCC of the following recent events (presentation included in the Agenda package):

January 2, 2019 Inverter Trip

An inverter in the Western Interconnection tripped when an out of service line was restored to service; the inverter tripped on a “phase jump” and was not associated with a fault. Both the previous California Blue Cut Fire Disturbance (August 16, 2016) and the Canyon 2 Fire Disturbance (October 9, 2017) experienced phase jumps related to a fault. Inverters should not trip for momentary phase lock loop loss of synchronization caused by phase jumps, distortion, etc., during BPS grid events (e.g., faults). A formal disturbance report is being developed.

January 11, 2019 Oscillation

An oscillation was observed across the entire Eastern Interconnection (EI) on January 11, 2019 from 3:35 am - 4:15 am EST. The oscillation frequency of 0.25 Hz aligned with an inter-area mode frequency across the EI; power swings ranged from 200 MW (Florida) to 50 MW (New England). NERC issued a Phasor Measurement Unit (PMU) data request for that day and has been working with the industry to study the event.

NPCC 2019 Summer Reliability Assessment

Mr. Klaube gave an overview of the preliminary results of the 2019 NPCC Summer Reliability Assessment, prepared by the NPCC CO-12 Working Group provided in the Agenda package. Mr. Fedora provided a summary of the NPCC CP-8 Working Group’s 2019 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 5, 2019. Following TFCO and TFPC approval, the assessment will be presented to the NPCC Board of Directors at their May 1st meeting; a media released is scheduled for May 2nd.



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
February 27, 2019

2019 NPCC Corporate Goals

Mr. Fedora summarized the approved NPCC 2019 Corporate Goals milestones requiring RCC support, provided in the Agenda package, including the associated Physical Security Working Group and Outreach Programs.

NERC Agenda Items

Joint Session: Planning, Operating & Critical Infrastructure Protection Committee

Mr. Oks reviewed the following presentations scheduled for the March 5, 2019 Joint Session included in the Agenda package:

- ✓ Stakeholder Engagement Team, Effectiveness and Efficiency Initiative;
- ✓ Southern California Edison Blackstart Cranking Path Presentation;
- ✓ Inverter-based Resource Performance Task Force Status Report;
- ✓ E-ISAC Update; and,
- ✓ Coordinating with First Responders – Consolidated Edison, New York Emergency Preparedness Presentation.

Operating Committee (OC) Meeting

Mr. Rufrano highlighted the following items from the March 5-6, 2019 OC Agenda included in the Agenda package:

- ✓ SAFNR Update;
- ✓ ORS Parallel Flow Visualization Presentation;
- ✓ Preliminary discussion of the January 11, 2019 Frequency Oscillation Event;
- ✓ Establish and Communicate System Operating Limits;
- ✓ Review of SOL Standards;
- ✓ Procedure for ERO Support of Frequency Response and Frequency Bias Setting Standard;
- ✓ Modifications to BAL-003-1.1;
- ✓ OC Reliability Guideline and Reference Document Quick Reference Guide; and,
- ✓ Real-time Assessments Quality Task Force Guidance.

Planning Committee (PC) Meeting

Mr. Fedora highlighted the following items from the Draft March 5-6, 2019 Planning Committee Agenda included in the Agenda package:

- ✓ Reliability Guidelines – Authorization to post:
 - Distributed Energy Resources (DER) Modeling DER_A Dynamic Model
 - Application Guide for Modeling Turbine-Governor and Active Power Frequency Controls in Stability Studies
- ✓ Approval of the Interconnection Oscillation Analysis Report;
- ✓ Approval of the White Paper: State Estimation Using PMU Measurements; and,
- ✓ Fuel Assurance Planning Activities Discussion and Next Steps:
 - Electric-Gas Working Group Scope Discussion.



NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
February 27, 2019

Critical Infrastructure Protection Committee (CIPC)

Mr. Hogue noted the following items from the March 5-6, 2019 CIPC Agenda included in the Agenda package:

- ✓ Supply Chain Update;
- ✓ CIP Modification Team Update: Virtualization and Future Technologies;
- ✓ Bulk Electric System Cyber System Information Standard Authorization Request;
- ✓ TOP Data Exchange Requirements Task Force Status;
- ✓ Grid Exercise Working Group Status;
- ✓ March 28, 2019 FERC/DOE Technical Conference; and,
- ✓ Supply Chain Cyber Security Practices letter to Electric Industry Vendor Community.

Informational Items

Mr. Crissman referred the RCC to the materials provided in the Agenda package.

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

Next RCC Meeting Date

Wednesday, May 29, 2019

Location

The New York Times Square
Residence Inn by the Marriott
New York, New York

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 Skucas, Esq.

and

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

La Régie de L’Énergie – Guy Fortin

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.

February 27, 2019