December 16, 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 September 4, 2019 RCC Meeting

Sir / Madam:

Attached are the Minutes of the September 4, 2019 meeting of the NPCC Reliability Coordinating Committee, as approved at the December 3, 2019 RCC meeting.

Sincerely,

Phil Fedora
Philip A. Fedora
Assistant Vice President - Reliability Services

cc: NPCC Staff
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  Ontario IESO  

**Sector 1 - Transmission Owners**
Central Hudson Gas & Electric Corporation  
Central Maine Power Company  
Consolidated Edison Company of New York, Inc.  
Eversource Energy  
Hydro-One, Inc.  
Long Island Power Authority  
National Grid USA  
New York Power Authority  
Nova Scotia Power, Inc.  
The United Illuminating Company  
Vermont Electric Power Company, Inc.  

**Sector 2 – Reliability Coordinators**
Hydro-Quebec TransEnergie  
ISO New England, Inc.  
New Brunswick Power Corporation  
New York ISO  
Ontario IESO  

**Sector 3 – Transmission Dependent Utilities, Distribution Companies and Load Serving Entities**
Consolidated Edison Company of New York, Inc.  
Eversource Energy  
Hydro-Quebec Distribution  
Long Island Power Authority  

September 4, 2019
NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
September 4, 2019

National Grid                                       Mike Jones (via phone)
New York Power Authority                           (proxy to Randy Crissman)
New Brunswick Power Corporation                     Randy MacDonald

**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)
New York Power Authority                             Randy Crissman
NextEra Energy Resources                             Allen Schriver (via phone)
Ontario Power Generation                             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
New York State Department of Public Service          Humayun Kabir – Alternate (via phone)

**Sector 7 – Sub-Regional Reliability Councils, Customers, other Regional Entities and Interested Entities**
New York State Reliability Council, LLC            Mayer Sasson - Alternate

**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
Quoc Le (part-time)                                 Manager, System Planning and Protection
Michael Lombardi                                    Director, Reliability Assessments
Scott Nied                                          Acting Assistant Vice President - Compliance
Andrey Oks                                          Director of Operations Coordination

September 4, 2019                                  3
Frantz Roc Manager, Information Technologies
Ralph Rufrano Manager, Events Analysis
Rafael Sahiholamal Senior Reliability Assessment & Performance Analysis Engineer
Edward Schwerdt (part-time – via phone) President & CEO

Guests
Alessia Dawes (via phone) Chair, CP-11 Working Group
George Fatu Chair, Task Force on System Studies
Dean Latulipe (part-time – via phone) SS-38 Working Group Chair
Aaron Markham Chair, Task Force on Coordination of Operation
Anthony Napikoski Chair, Task Force on System Protection
Saul Rojas New York Power Authority
Dan Schwarting (via phone) Vice Chair, CP-11 Working Group
Dan Taft Consolidated Edison Company of New York, Inc.
William Vesely Vice Chair, Task Force on Infrastructure Security & Technology
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 proxy:

Sector 4 – Generator Owners
Scott Etnoyer– Talen Energy Supply, LLC.

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

President & CEO Report
NERC’s Proposal for Restructuring the Technical Committees
Mr. Schwerdt reported that as a part of the ERO Enterprise-wide effectiveness and efficiency initiative, a working group was formed in late 2018 to review the current avenues for stakeholder engagement and to recommend enhancements. After assessing various approaches and Regional committee experiences, that Stakeholder Engagement Team recommended to the NERC Member Representatives Committee at its August 2019 meeting the creation of a Reliability and Security Council (RSC). This new oversight committee would replace the Planning Committee, Operating Committee and the Critical Infrastructure
Protection Committee by combining the experience of those existing technical groups into one multi-disciplinary committee. The RSC would direct and oversee the output of the existing subcommittees, working groups, and task forces, while eliminating duplication and identifying gaps in the current subcommittee structure. The RSC would report to the NERC Board of Trustees. Regional staff representatives would continue participation and become non-voting participants at the RSC meetings.

While stakeholder support for the RSC was generally positive, there were several modifications to the proposal that were suggested. Included in those recommendations were: changes in the RSC membership to include more stakeholder sector-elected representatives; revisions to the RSC’s governance structure; assurances that geographic diversity would be maintained and include Canadian representation; and assumption of something other than the RSC acronym which would create confusion with the Reliability Issues Steering Committee (RISC). The Stakeholder Engagement Team is scheduled to meet to address all comments received and to make their final recommendations to the NERC Board of Trustees at its November 2019 meeting. A copy of the presentation on the RSC proposal is included in the Agenda package for this RCC meeting.

**NPCC Board Strategy Session**

While the Board works strategically throughout the year, it will meet today for its focused annual strategy session to identify and assess emerging electricity reliability challenges within the NPCC Region and to inform the corporation’s future direction and reliability initiatives. The pace of change within the electric utility industry continues to accelerate, thus strategic planning efforts must remain in the forefront to keep NPCC agile as the corporation appropriately focuses its staff and Member subject matter experts’ resources. Such planning activities also contribute significantly to NPCC’s policy leadership throughout the ERO Enterprise. The current working draft strategic plan identifies the major emerging challenges to Northeastern North American reliability as: enhancing system resilience and assuring energy sufficiency; reliably integrating distributed energy resources; and addressing cyber and physical threats. Mr. Schwerdt indicated he would summarize the output of the Board’s deliberations and recommendations at the December RCC meeting.

Mr. Henderson asked Mr. Schwerdt about opportunities for the NPCC Board to consult with the RCC or other Stakeholders during development of its strategic initiatives. Mr. Schwerdt replied his outreach includes all input from NPCC Members representatives, including aligning the RCC Scope and Task Force Work Plans around the strategic plan. He indicated another draft of the strategic plan would be available in October and that it will be shared in the interest of a more efficient alignment of the NPCC Board’s strategic initiatives and the Task Force Work Plans.
Mr. Henderson noted that the ISO New England Board meets directly with its Stakeholders in December for input/feedback. Mr. Schwerdt responded that unlike the ISO New England Board, the NPCC Board consists of a balanced, hybrid sector representation that provides the opportunity for direct input/feedback.

**Chair Report**

**Agenda**

Mr. Crissman reviewed the Agenda provided in the Agenda package

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

**August 8, 2019 - NPCC Distributed Energy Resources Forum**

Mr. Crissman summarized the material provided in the Agenda package regarding the NPCC Regional Standards Committee on-going efforts to develop a coordinated Regional approach to reliability guidelines for Distributed Energy Resources (DERs) and create a forum for DERs integration challenges and expand coordination on DERs with the NAGF, FERC and NARUC.

**Proposal for Restructuring NERC Technical Committees**

Mr. Crissman reviewed the proposal provided in the Agenda package and as described by Mr. Schwerdt regarding replacing the NERC Operating Committee, Planning Committee, and Critical Infrastructure Protection Committee with a Reliability and Security Council; a final recommendation will be presented to the NERC Board of Trustees at their 4th quarter 2019 meeting for approval. Assuming approval of the recommendation, the transition would be implemented in early 2020.

**November 13-14, 2019 - GridEx V**

Mr. Crissman referred the RCC to the background information provided in the Agenda package. GridEx V is scheduled for November 13-14, 2019. The grid security exercise takes place every two years and provides an opportunity for utilities to demonstrate how they would respond to and recover from simulated coordinated cyber and physical security threats and incidents, strengthen their crisis communications relationships, and provide input for lessons learned.

**Cybersecurity Risk Information Sharing Program (CRISP) Implementation at NPCC**

Mr. Roc reported that NPCC joined the Cyber Risk Information Sharing Program (CRISP) as of August 1, 2019.
NERC EMP Task Force Update
Mr. Crissman explained that the Electromagnetic Pulse Task Force (EMP Task Force) is an advisory team that collaborates with governmental authorities and applicable industry members to provide front-end, high-level leadership and guidance. He reported that the focus of the Task Force is to write a Strategic Recommendations report that will be posted for industry review and comment in the 3rd quarter of 2019. The Strategic Recommendations report will focus on five key topics:

- Policy;
- Research;
- Vulnerability Assessments;
- Mitigation Guidelines; and,
- Response and Recovery.

Standards Efficiency Review Update
Mr. Crissman summarized activities associated with the NERC Standards Efficiency Review provided in the Agenda package. The Phase 2 Standards Efficiency Review team last met on August 12, 2019. The team is focusing its effort at this time on 1) development of a Standards Authorization Request for modifications standard requirements that were identified in Phase 1; and 2) the development of two of the six efficiency concepts, based on the results of a recent industry survey.

NPCC 2019 General Meeting
Mr. Fedora referred the RCC to the notice included in the Agenda package – the 2019 NPCC General Meeting will be held at the Montréal Marriott Château Champlain, starting at 1:00 pm on Wednesday, December 4, 2019.

Proposed 2020 RCC Meeting Dates & Locations
Mr. Fedora reported that arrangements were being made for the following 2020 RCC meeting dates and locations:

- Wednesday February 26, 2020 – TBA (NYC)
- Wednesday May 27, 2020 – TBA (NYC)
- Wednesday September 2, 2020 - TBA (NYC)
- Tuesday December 1, 2020 - Albany Marriott, 189 Wolf Rd, Albany NY (in conjunction with the NPCC 2020 Board/Annual/General Meetings)

Development of 2020-21 Task Force/RCC Work Plans
Mr. Crissman reminded the Task Force Chairs and the RCC that review and approval of their proposed 2020 - 2021 Task Force Work Plans will take place at the December 3, 2019 RCC meeting. The review and approval of the proposed 2020 RCC Work Plan will take place following the RCC’s approval of the proposed NPCC Task Force’s 2020 – 2021 Work Plans later in that meeting.
Development of NPCC 2020 Corporate Goals
Mr. Fedora indicated that development of NPCC’s 2020 Corporate Goals follows the development of the 2020 RCC Work Plan and RCC approval of the NPCC 2020-2021 Task Force Work Plans in December, based on NPCC Board direction. The NPCC Board approves the RCC Scope and the reviews the NPCC Corporate Goals at its January 2020 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 30, 2019. He asked the RCC to review and provide Mr. Fedora with any comments/changes prior to the December 3, 2019 RCC meeting; the NPCC Board will consider the RCC Scope at its January 2020 meeting.

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

May 29, 2019 Meeting Minutes
Approved as provided in the Agenda package, with editorial changes noted.

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

Sector 1 - Transmission Owners
✓ Mike Forte of Con Edison is no longer a member.
✓ Brian Conroy of Central Maine Power Company is no longer a member.

Sector 3 - Transmission Dependent Utilities, Distribution Companies and Load-Serving Entities
✓ Ben Wu of Orange & Rockland as member.
✓ Ronald Clare of Long Island Power Company is no longer a member.

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

Task Force on Coordination of Operation
✓ Akram Sohail as alternate for Hydro One.
✓ Charles-Eric Langlois as member for Hydro-Quebec TransÉnergie, replacing Patrick Doyle, who will become the alternate.
✓ Ron Arness succeeds Dave Zwergel as a participant for MISO.
✓ Josh Netherton succeeds Andy Witmeier as a participant for MISO.
✓ Chris Pilong succeeds Dave Souder as a participant for PJM.
Task Force on Coordination of Planning
✓ Shaun Moran of Eversource succeeds Robert Russo as alternate.
✓ Maximus Rizk succeeds Ryan Ramcharan as member, both of Consolidated Edison.
✓ Ryan B Ramcharan is no longer a member.
✓ Mr. Edward Roedel succeeds Mr. David Bradt both of United Illuminating as member.
✓ Mr. Roedel also succeeds Mr. Bradt as the Vice-Chair.
✓ Mr. Paul Didsayabutra of Rochester Gas and Electric succeeds Mr. Edward Roedel as alternate.

Task Force on System Studies
✓ Maximus Rizk succeeds Ryan Ramcharan as member, both of Con Edison.
✓ Bob Russo will no longer serve as alternate for Eversource; a replacement has not been named.

Task Force on System Protection
✓ Xiankai Wang of NSPI will serve as alternate.
✓ David Mahlmann of the New York ISO is no longer a member.
✓ Robert Golen of the New York ISO as alternate.
✓ Zarin Schildhorn will replace Mr. Jack DiOdoardo of Central Hudson as alternate.

Task Force on Infrastructure Security & Technology
✓ Kelsey Settle succeeds Lee McDonald as alternate, both of Nova Scotia Power Inc.
✓ Larry Snow of Cogentrix Energy Power Management, LLC as member.
✓ Jason Hammerschmidt of the Ontario IESO as alternate.
✓ Brenda Driscoll of National Grid as alternate.
✓ Steve Brain of Dominion Resource Services no longer an alternate.
✓ Glen Dempster of Ontario Power Generation Inc. is no longer an alternate.

CP-11 Working Group on Review of NPCC Basic Criteria
✓ Dylan Dreirsch of PSEG Long Island as member.
✓ Edward Roedel of United Illuminating Company as member.
✓ Vincent Fihey of Hydro-Quebec TransEnergie is no longer a member.
✓ Steve Blackburn of Hydro-Quebec TransEnergie is no longer a member.
✓ Bob Duan of Ontario Power Generation is no longer a member.
✓ Jalpa Patel of LIPA is no longer a member.
✓ Daniele D’Aquila of LIPA is no longer a member.
✓ Herb Schrayshuen of Power Advisors, LLC is no longer a member.
✓ Hai (Quoc) Le of NPCC is no longer a member.
✓ Maximus Rizk succeeds Ryan Ramcharan of Consolidated Edison as member.

CO-2 Operator Trainers Working Group
✓ Jason Tobin of Newfoundland and Labrador Hydro as member.
✓ Eduardo Sanchez of ISO-New England as alternate.
✓ Andrey Oks of NPCC as alternate.
NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
September 4, 2019

System Operations Managers Working Group (CO-8)
- Udayan Nair succeeds Kyle Russell as the Ontario IESO alternate.
- Ron Arness succeeds Andy Witmeier as an alternate representative for MISO.
- Chris Pilong succeeds Dave Souder as an alternate representative for PJM.

CO-10 System Operational Tools Working Group
- Pablo Gutierrez succeeds Nick Zourntos of the Ontario IESO as member.

Restoration Working Group (CO-11)
- Harsh Dinesh of the New York ISO is no longer alternate.
- Kevin Hatch of PJM is no longer alternate.
- Gerry Elliott of ISO New England is no longer alternate.
- Andrey Oks of NPCC as alternate member.
- Ryan Ramcharan is no longer a member.

SP-7 Working Group on Protection System Misoperation Review
- Xiankai Wang of NSPI will serve as member.
- Thomas Burns will replace Jack DiDodoardo of Central Hudson as member.

SS-38 Working Group on Inter-Area Dynamic Analysis
- Zeqiu Li succeeds Kofi Nimako of the New York ISO as alternate.

SS-38 LMWG Load Modeling Working Group
- Pramila Nirbhavane of the New York ISO as alternate.

IST-2 Telecommunications Working Group
- Javier Echevarria of NPCC is no longer an alternate.

IST-4 Working Group on Cyber Security
- Rafael Sahiholamal succeeds Michael Lombardi of NPCC as member.
- Robert Thompson of Central Maine Power is no longer a member.
- Nathan Cote of Eversource Energy is no longer a member.
- Sharon Paturzo of United Illuminating is no longer an alternate.
- Frederic St-Hilaire of Hydro-Quebec TransEnergie as member.
- Albert Marandola of Eversource Energy as member.

IST-4 Working Group White Paper - Information Protection Policy for System Protection
Approved as provided in the Agenda package.
IST-2 Working Group White Paper - *Ring Down (Voice Communications)*
Approved as provided in the Agenda package.

**2019 NPCC Major Projects List**
Approved as provided in the Agenda package.

**New England Directory No. 1 Implementation Plan**
Approved as provided in the Agenda package.

**Items for Approval**

**NPCC Directory No. 6 - Reserve Sharing Groups**
Mr. Dunbar reviewed the changes to the revised Regional Reliability Directory No. 6 *Reserve Sharing Groups* provided in the Agenda package. He explained that the Task Force on Coordination of Operation (TFCO) and its CO-8 Working Group completed a comprehensive review of Directory No. 6, which considered the impact of the evolving Electric Reliability Organization (ERO) Standards on the Criteria, emerging industry technologies and recent recommendations contained in the Phase 2 Report on the A-10 Methodology.

The TFCO recommended revising the definition of the existing NPCC Glossary Term for Reserve Sharing Group to the definition used for this term in the NERC Glossary of Terms.

The RCC agreed to revise the definition of the existing NPCC Glossary Term for Reserve Sharing Group to the definition used for this term in the NERC Glossary of Terms, then unanimously recommended balloting the revised NPCC Regional Reliability Directory No. 6 – *Reserve Sharing Groups* for Full Member approval (written proxy in favor).

**NPCC Directory No. 5 – Reserve**
Mr. Dunbar reviewed the changes to the revised NPCC Directory No. 5 *Reserve*. He explained that the Task Force on Coordination of Operation (TFCO) and its CO-1 and CO-8 Working Groups completed a comprehensive review of Directory No. 5 and reformatted the document to produce NPCC Criteria requirements that are clear, measurable and consistent with the NERC Rules of Procedure. The TFCO also made changes to several NPCC Glossary terms contained within Directory No. 5.

Additionally, in accordance with the recommendations contained in the *Strategic Review of the NPCC Criteria*, the TFCO solicited NPCC Member feedback on the contribution to system resilience and the cost effectiveness of the individual criteria attributes within the Directory.
The RCC then unanimously recommended balloting the revised NPCC Regional Reliability Directory No. 5 - Reserve provided in the Agenda package for Full Member approval (written proxy in favor).

2018 NPCC Criteria Compliance Enforcement Program (CCEP) Assessment Report
Mr. Nied summarized the 2018 NPCC CCEP Assessment Report provided in the Agenda package. The CCEP-1 Process Document directs the NPCC Compliance Committee (CC) to present an annual assessment report for approval at the 3rd quarter RCC meeting each year. The CC performed a compliance review of the submitted certification forms. The assessment report provided in the Agenda package summarizes the CC’s review and findings associated with the certifications submitted as per the 2018 CCEP Implementation Plan.

The RCC discussed the two recommendations of non-compliance noted in the report:

New Brunswick Power (NBP) – Directory No. 4
In 2018, there was one new transmission element added and two protection systems upgraded. For these changes NBP did not request the Task Force on System Protection (TFSP) to review NBP’s compliance as per Requirements 1 and 2 of Directory No. 4. However, NBP reports that redundant trenching was not utilized for the new element. NBP believes that, for the two protection system upgrades, TFSP would typically waive the redundant trenching requirement and permit an exclusion. Apart from the redundant trenching criterion, NBP meets all Directory No. 4 criteria.

NBP’s decision not to have redundant trenching for the new BPS element was based on the increased risk that the construction activity presented to an operational substation and NBP’s assessment that redundant trenching poses minimal incremental reliability benefit based on the compensating measures outlined in the report.

NBP, working with the TFSP, has initiated proposed revisions to Directory No. 4 allowing for exceptions to the double trenching requirement for the new elements added to operational substations where such exceptions are conditional on TFSP approval. NBP will be seeking a TFSP acceptance letter for those upgrades that were not formerly submitted in accordance with Directory No. 4.

New York Power Authority (NYPA) – Directory No. 4
In 2018, three breaker failure relays were replaced with similar relays (change to manufacturer and model number only, with no impact to functionality or settings) at one BPS station and NYPA did not submit documentation to the Task Force on System Protection (TFSP) in accordance with Appendix B and, thus, did not obtain a letter of acceptance by TFSP within 12 months of placing the relay replacements in service. The relay changes were intended to be placed on the TFSP agenda, but were inadvertently excluded. Therefore, NYPA did not meet the Compliance Requirements with R1 and
R2. During this time, NYPA was undergoing staffing and administrative changes and it was not noticed that actual TFSP approval had not occurred.

To mitigate the issue, NYPA has submitted the changes to TFSP and the formal presentation to TFSP was made at the July 2019 meeting and the subsequent approval letter was received by NYPA. To prevent recurrence, NYPA developed and implemented a procedural control that ensures the responsible engineer will fill out the TFSP forms, get the changes onto the TFSP agenda, and that approval of TFSP will be acquired within 12 months. This procedural control must be satisfied before NYPA’s Protection and Control Engineering group will approve Protection System modifications or transmit new relay settings for field implementation.

The CC recommended that the RCC accept these CC determinations of noncompliance.

The RCC then approved the 2018 NPCC Criteria Compliance Enforcement Program (CCEP) Assessment Report as provided in the Agenda package (NYPA Sectors 1,3,4,5,6 abstaining; written proxy in favor).

Mr. Nied indicated that following RCC approval of the 2018 NPCC Criteria Compliance Enforcement Program Assessment Report, a letter will be sent to the CEO of the non-compliant Full Member 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.

**Items for Discussion**

**Status of NPCC A-10 Document Review**
Ms. Dawes summarized the status of the Task Force on Coordination of Planning (TFCP) and the CP-11 Working Group on Review of NPCC Basic Criteria review of NPCC Document A-10 - Classification of Bulk Power System Elements.

The recommendations contained in the CP-11 Working Group Phase 2 Final Report of the Document A-10 Review were incorporated into a revised version of the A-10 Document and posted to the NPCC Open Process for a comment period which concluded on July 1, 2019. The TFCP and the CP-11 Working Group have considered comments received during the first posting of the A-10 Document and have recommended further changes to the draft. The revised draft will be posted to the Open Process for a second 45-day comment period.

The TFCP and the CP-11 Working Group anticipate presenting a final A-10 Document draft to the RCC in December with a subsequent expected Full Member approval ballot.
Con Ed July 13, 2019 load loss event
The RCC received a presentation by Messrs. Taft and Sasson of Consolidated Edison regarding the July 13, 2019 New York City West Side Power Outage. They reviewed the events that resulted in isolation of the fault at the West 49th Street transmission substation, and the subsequent loss of several electrical networks.

Mr. Crissman referred the RCC to the New York Public Service Commission Order included in the Agenda package that describes the initiation of a proceeding to examine how to reconcile resource adequacy programs and the State’s renewable energy and environmental emission reduction goals. Interested entities are asked to submit comments by November 8, 2019.

2019 NPCC Corporate Goals Deliverables
Goal III-1
Mr. Rufrano reported on the trend analysis of NPCC extreme contingency testing and all ERO-wide Event Analysis program (EAP) events since 2015 and the identified past resilience performance as provided in the Agenda package.

Goal III-3
Mr. Latulipe reported on the development of acceptable DER_A model default data for NPCC and tests through UFLS sensitivity analysis provided in the agenda package. The SS-38 Working Group on Inter-Area Dynamic Analysis completed the development of default parameters of the DER_A model for NPCC in May 2019 and have completed testing of the DER_A model through the UFLS sensitivity analysis in August 2019.

The sensitivity testing results showed that incorporating DER models into UFLS simulations impact system performance during frequency excursions, with the most significant impacts seen for the most conservative DER modeling assumptions. The findings were presented to the Task Force on System Studies at a teleconference on August 19, 2019 and approved for presentation to the RCC.

Goal IV-1
Mr. Lombardi reported on the findings of the pilot program with key Distributed Energy Resource (DER) stakeholders to define data and practices needed to effectively and efficiently integrate DERs into the Bulk Electric System (BES) and identify and prioritize the gaps between the current state and the desired state. His presentation, included in the Agenda package, highlighted the related activities of the IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power

Goal IV-3
Mr. Oks summarized the Tabletop Exercise included in the Agenda package developed involving the NPCC electric system operators, gas producers and pipeline representatives. The Tabletop Exercise leveraged the experience and expertise of Argonne National Lab and input from the natural gas and electric sector operating organizations.

He explained the goals of the exercise are to:
- Inform and educate participants on interconnected electric-natural gas systems and their impacts on other critical infrastructure systems;
- Prepare/practice response to an event impacting cross-borders electric and gas systems, across a wide stakeholder group; and,
- Identify Bulk Power System (BPS) reliability risks and solutions, including opportunities for more resilience through cooperation, communications and decision-making.

NERC Agenda Items

Joint Session: Planning, Operating & Critical Infrastructure Protection Committee
Mr. Oks reviewed the following presentations that are scheduled for the September 10, 2019 Joint Session included in the Agenda package:
- Cold Weather Bulk Electric System Event of January 17, 2018;
- Argentina Blackout;
- Committee Restructuring Proposal Feedback and Next Steps; and,
- Update on EMP Task Force Strategic Recommendations.

Operating Committee (OC) Meeting
Mr. Rufrano highlighted the following items from the September 10-11, 2019 OC Agenda included in the Agenda package:

Approval Items:
- Reliability Guideline: Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources.

Informational Items:
- Cold Weather Bulk Electric System Event of January 17, 2018;
- Task Force & Working Group Updates;
  - Real-time Assessments Quality Task Force; and,
  - System Planning Impacts from Distributed Energy Resources Working Group.
- WECC Reliability Coordinator Updates.
Planning Committee (PC) Meeting
Mr. Fedora highlighted the following items from the draft September 10-11, 2019 Planning Committee Agenda included in the Agenda package:

Consent Agenda

✓ Technical Analysis Report Reliability Standard PRC-019 Reliability Gaps – Approved by PC email vote on August 2, 2019; and,

Items for Approval

✓ Reliability Guideline: DER_A Model Parameterization; and,
✓ Reliability Guideline: Improvements to Interconnection Requirements for BPS-Connected Inverter-Based Resources.

Critical Infrastructure Protection Committee (CIPC)
Mr. Hogue noted the following items from the September 17-18, 2019 CIPC Agenda included in the Agenda package:


No Voting Items.

Informational/discussion Topics:

✓ Compliance Input Working Group:
  ▪ Cloud Implementation Guidance
  ▪ Federal Risk and Authorization Management Program (FedRAMP).

Informational Items

NPCC Guidance Document - Approaches to Preserve System Resilience and Reliability for a High DER Penetration Future- Version 1
Mr. Crissman referred to the NPCC Guidance Document provided in the Agenda package. Due to the uncertain nature of a number of Distributed Energy Resource (DER) implementation issues, this document will undergo continual revisions and is provided as a “Version 1.” The document was endorsed by the NPCC Reliability Standards Committee and will be posted on the NPCC website. The guidance document, and future versions, represent an effort and intent to incrementally provide the industry with up-to-date information on implementing DER as it becomes available. He asked that comments be provided to Mr. Zito.
Cyber & Physical Security Update
Mr. Vesely reviewed the following Cyber & Physical Security information provided in the Agenda package:
- CIP Modifications Standard Drafting Team;
- BES Cyber Systems Information Standards Authorization Request;
- Incident Reporting and Response Planning;
- Communications between Control Centers;
- CIP – 003 - Low Impact program must be in place by January 1, 2020;
- Supply Chain Risk Management;
- Communications; and,
- CIP Standards Efficiency Review.

NERC Probabilistic Assessment Forum
Mr. Klaube referred the RCC to the announcement included in the Agenda package for the NERC Probabilistic Analysis Forum scheduled for December 11-13, 2019 at NERC’s Atlanta Office.

Mr. Crissman 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
Tuesday, December 3 2019

Location
Montréal Marriott Château Champlain
1050 De, Rue de la Gauchetière O,
Montréal, Quebec

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 – 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.