



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

December 12, 2015

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 10, 2015 Reliability Coordinating Committee (RCC) Meeting

Sir / Madam:

Attached are the minutes of the September 10, 2015 meeting of the NPCC Reliability Coordinating Committee, as approved at the December 1, 2015 RCC meeting.

Sincerely,

Phil Fedora

Philip A. Fedora
Assistant Vice President-Reliability Services

cc: NPCC Staff



**NORTHEAST POWER COORDINATING COUNCIL
Reliability Coordinating Committee Minutes
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Mr. Schiavone called the meeting of the Reliability Coordinating Committee (RCC), held at the New York Times Square Residence Inn by the Marriott to order at 10:00 am.

Attendance

Officers of the Reliability Coordinating Committee

Michael Schiavone, Chair	National Grid USA
Brian Evans-Mongeon, Co-Vice Chair	Utility Services, Inc.
Randy Crissman, Co-Vice Chair	New York Power Authority

Sector 1 - Transmission Owners

Central Hudson Gas & Electric Corp.	Frank Pace (Alternate)
Central Maine Power Company	David Conroy
Consolidated Edison Company of New York, Inc.	Mike Forte
Eversource Energy	Peter Yost (Alternate)
Hydro-One, Inc.	Brad Bentley
Long Island Power Authority	Tom Irvine
National Grid USA	Anie Philip (Alternate – via phone)
New Brunswick Power Corporation	Michael Schiavone
New York Power Authority	Randy McDonald (Alternate – via phone)
New York State Electric & Gas Corp.	(proxy to Randy Crissman)
Nova Scotia Power Incorporated	(proxy to David Conroy)
Rochester Gas & Electric Corporation	(via written proxy)
The United Illuminating Company	(via written proxy)
Vermont Transco	Jonathan Appelbaum (Alternate)
	Hantz Presume (via phone)

Sector 2 – Reliability Coordinators

Hydro-Québec TransÉnergie	(proxy to Caroline Dupuis – via phone)
Independent Electricity System Operator	Leonard Kula
ISO-New England, Inc.	(proxy to Rich Kowalski)
New York Independent System Operator	Henry Chao

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

Consolidated Edison	(proxy to Mike Forte)
Eversource Energy	Barry Bruun
Long Island Power Authority	(proxy to Anie Philip – via phone)
New York Power Authority	(proxy to Randy Crissman)

Sector 4 Generation Owners

Consolidated Edison	(proxy to Mike Forte)
Dominion Energy Marking, Inc.	Connie Lowe (via phone)



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Dynergy, 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)

Sector 5 – Marketers, Brokers, and Aggregators

Consolidated Edison	(proxy to Mike Forte)
Long Island Power Authority	(proxy to Anie Philip – via phone)
New York Power Authority	(proxy to Randy Crissman)
Talen Energy Marketing, LLC	Bradley Weghorst (via phone)
Utility Services	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	(proxy to Randy Crissman)
New York State Department of Public Service	Ed Schrom (Alternate)

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

New York State Reliability Council, LLC	(via written proxy)
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NPCC Staff

Sal Buffamante	Assistant Vice President Compliance Audits and Investigations
Gerry Dunbar	Manager of Reliability Criteria Requirements
Phil Fedora	Assistant Vice President, Reliability Services
Damase Hebert, Esq.	Compliance Attorney
Brian Hogue	Information Systems & Security Management
Stanley Kopman	Assistant Vice President Compliance, Registration & Enforcement
Quoc Le	Manager, System Planning and Protection
Michael Lombardi	Manager, System Studies in Reliability Services
John Mosier, Jr.	Assistant Vice President of System Operations
Scott Nied	Manager, Compliance Program Development
Andrey Oks	Manager, Reliability Performance Criteria Assessment
Frantz Roc	Manager, Information Technologies



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Ralph Rufrano	Manager, Compliance Violation Investigation
Edward Schwerdt	President and Chief Executive Officer
Rui Da Shu	Senior Engineer- Reliability Standards and Criteria
Guy Zito	Assistant Vice President of Standards

Guests

Marc Dusseault	Chair, Task Force on Coordination of Planning
Farzad Farahmand (via phone)	Ontario IESO
Hardeep Kandola (via phone)	Ontario IESO
Dean Latulipe (via phone)	Chair, SS-38 Working Group
Paul Parthemore	New York Power Authority
Dermot Smyth	Consolidated Edison
George Wegh	Vice Chair, Task Force on System Protection
Isen Widjaja (via phone)	Chair, SS-38 Load Modeling Working Group

Quorum Statement

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

Sector 1 – Transmission Owners

Paul Casey - Nova Scotia Power, Inc.
Michael Craven - Rochester Gas and Electric Corporation

Sector 4 – Generator Owners

James Watson – Dynegy, Inc.

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

Roger Clayton - New York State Reliability Council

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

Mr. Schwerdt provided the following report:

NERC's 2015 Reliability Leadership Summit

NERC conducted its annual Reliability Leadership Summit on August 25, 2015 to address how NERC can support the industry as the challenges of a changing resource mix intensify; and to identify specifically NERC's role in ensuring continued reliable operation of the bulk September 10, 2015



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power system with the additions of distributed generation, increasing demand response, the interaction of micro-grids, and future cyber and physical threats.

At the conclusion of the meeting, NERC's President and CEO categorized the three types of risks discussed by panelists throughout the Summit as those risks that are tangible and present; risks that are slow moving and approaching; and risks that are unknown and potentially catastrophic. Items discussed at the Summit will help inform the NERC Reliability Issues Sub-Committee report to be issued shortly, and also will influence the development of the ERO Enterprise 2016-2019 Strategic Plan that will be presented to the NERC Board of Trustees this November.

Reliability Assessment and Performance Analysis (RAPA)

The ERO Executive Management Group, which consists of the Presidents and CEOs of NERC and all of the Regional Entities, have a number of functionally specific working groups underneath it, one of which is the ERO RAPA group. One of the objectives of the RAPA group is to develop a coordinated plan for reliability assessment activities among NERC and the Regional Entities that addresses both existing and emerging reliability issues without gaps or unnecessary overlap. NPCC has recently assumed a leadership role within the RAPA effort with my designation as its Executive Sponsor, and Mr. Fedora's appointment as Co-Chair. On August 27, 2015 Messrs. Lauby and Moura of NERC met at the NPCC offices to review potential enhancements to the system modeling processes within the Eastern Interconnection; and the coordination of revised NERC-wide Short Term Reliability Assessment with ongoing seasonal reliability assessments conducted by the Regional Entities, as well as the next phase of NERC's response to the Clean Power Plan.

EPA Clean Power Plan (CPP)

With the EPA's recent issuance of its CPP regulations, NERC is in the process of working with its industry based CPP Advisory Group to determine its next steps. Some of the decisions that have already been made are that NERC will not opine on the regulations themselves, and will not be issuing to the industry a Phase 3 report. Rather NERC will be offering to a different audience, the State Regulators, a high-level report listing the reliability considerations that any State Implementation Plan should address and not forget in the development of their respective SIP. The report likely will include issues raised within the NERC Essential Reliability Services Report. Additionally, NERC is considering performing a reliability assessment based on the Federal Implementation Plan.

Chair Report

Meeting Agenda

Mr. Schiavone referred the RCC to the Agenda provided in the Agenda package. No changes were presented.

The RCC then approved the Agenda.



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Development of 2016 - 2017 Task Force/RCC Work Plans

Mr. Schiavone reminded the Task Force Chairs and the RCC that review and approval of the proposed 2016 - 2017 Task Force/RCC Work Plans will take place at the December 1, 2015 RCC meeting.

Task Force Assignment for Automatic Underfrequency Load Shedding RSAR

Mr. Schiavone reported that by electronic ballot ending 5:00 pm on Friday, July 31, 2015, the RCC approved the Regional Standards Committee's request to assign the Task Force on System Studies to the project scope outlined in the RSAR for PRC-006-NPCC-2 - Automatic Underfrequency and to populate the Drafting Team.

December 3, 2013 RCC Minutes - Consent Agenda correction

Mr. Schiavone noted the following correction to the minutes of the December 3, 2013 RCC meeting under the consent Agenda:

VPPSA and Green Mountain Power Coordinated UFLS Exception Request

Approved as provided in the Agenda package.

2016 RCC Meeting Dates

Mr. Schiavone reviewed the proposed dates and locations for the 2016 RCC meetings:

- ✓ Wednesday - March 2, 2016 – NYC Location TBA
- ✓ Wednesday - June 1, 2016 – NYC Location TBA
- ✓ Wednesday – September 7, 2016 – NYC Location TBA (note: NPCC Board Strategy Session starts following the RCC meeting - at 1:00 pm)
- ✓ Tuesday – December 6, 2016 – Omni Montreal (in conjunction with the NPCC Board/Annual/General Meetings)

Mr. Appelbaum noted that hotel costs in New York City are more expensive in September and suggested consideration of an alternative location for the September RCC meeting.

Consent Agenda

The Reliability Coordinating Committee approved the following Consent Agenda items (all written proxies in favor).

June 3, 2015 Meeting Minutes

The Draft-For-Approval Minutes of the June 3, 2015 Reliability Coordinating Committee were approved, with the following addition noted under the Consent Agenda:

Intermediate Area Transmission Reviews

- ✓ 2014 Maritimes Intermediate Transmission Review

RCC Membership Changes

The following changes to RCC Membership were approved:

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Sector 1, Transmission Owners

Mr. Gabriel Gabremicael representing National Grid as an alternate.

Sector 3, TDUs, Dist., and LSEs

Mr. Dermot Smyth to succeed Mr. Vitaly Spitsa as an alternate member, both of Consolidated Edison Company of New York, Inc.

Sector 4, Generator Owners

Mr. Terrance J. Large to succeed Mr. Randy Rudolph as an alternate member, both of Eversource Energy.

Sector 5, Marketers, Brokers, Aggregators

Mr. Norman Mah to succeed Mr. Stephen B. Wemple as a member, both of Consolidated Edison Energy, Inc.

Task Force Roster Changes

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

Task Force on Coordination of Planning

- ✓ Mr. Paul Dabrowski succeeds Mr. Kevan Jefferies as a member, both of Ontario Power Generation, Inc.
- ✓ Mr. Kevan Jefferies will move down from a member to an alternate member.

Task Force on System Protection

- ✓ Mr. George Wegh of Eversource succeeds Mr. Paul DiFilippo of Hydro One as Chair.
- ✓ Mr. Alex Echevarria of New York Power Authority succeeds Mr. George Wegh of Eversource as Vice-Chair.
- ✓ Mr. David Short succeeds Mr. Ioan Agvriiloai, both of the Ontario IESO as an alternate member.

Task Force on Infrastructure Security and Technology

- ✓ Mr. Brian O'Boyle succeeds Mr. Daniel Yagudayev as a member, both of Consolidated Edison Company of New York, Inc.
- ✓ Ms. Deb Ludden succeeds Mr. Rick Twigg as a member, both from Vermont Electric Power Company, Inc.
- ✓ Mr. Janusz Ploski, P.Eng succeeds Mr. Rob Haromszeki as a member, both of Hydro One Networks, Inc.
- ✓ Mr. Alan Wong, P.Eng will represent Hydro One Networks, Inc. as an alternate member.

SS-37 Working Group on Base Case Development

- ✓ Mr. Andrew Zielinski succeeds Ms. Kalyani as an alternate member from the New York ISO.

SS-38 Working Group on Inter-Area Dynamic Analysis

- ✓ Mr. Tao He of PJM joins as a corresponding member.

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

- ✓ Mr. Dragan Pecurica succeeds Ms. Kamala Rangaswamy as an alternate member.
- ✓ Ms. Kamala Rangaswamy succeeds Mr. Dragan Pecurica as a member, both from Nova Scotia Power, Inc.



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SS-38-LMWG Load Modeling Working Group

- ✓ Mr. Edward Davidian of the Ontario IESO joins as an alternate member.

Maritimes Area Interim Review of Resource Adequacy

The RCC approved the Task Force on Coordination of Planning's recommendation for approval of the 2015 Maritimes Area Interim Review of Resource Adequacy.

Task Force Assignment—Standard Authorization Request (SAR) - PRC-006-3 Automatic Underfrequency Load Shedding Regional Variance for the Quebec Interconnection

The RCC approved of the recommendation to assign the subject SAR and review to Task Force on System Studies.

Reliability Coordinating Committee Actions

NPCC Directory No. 1 - Design and Operation of the Bulk Power System and associated Directory No. 1 New England Implementation Plan

Mr. Dusseault reported that the Task Force on Coordination of Planning and the Task Force on Coordination of Operation completed a collaborative review of Directory No. 1 through their respective CO7/CP11 Working Groups.

The combined CO7/CP11 Working Group reviewed Directory No. 1 as an integrated planning and operational document and examined all aspects of the criteria, posting Directory No.1 to the Open Process for three 45 day comment periods.

The Task Force review has resulted in further specificity regarding performance expectations along with the development of Planning and Operation criteria 'Tables ' which now contain the relevant contingency events, fault types and performance requirements in order to present the criteria with more precision.

He recommended the RCC submit the revised Directory No. 1 for NPCC Full Member Committee approval, and that the RCC approve the associated the New England Implementation Plan, as provided in the Agenda package.

The RCC then unanimously recommended that the NPCC Directory No. 1 - Design and Operation of the Bulk Power System be balloted by the NPCC Full Member Committee for approval and approved the associated Directory No. 1 New England Implementation Plan, as provided in the Agenda package (all written proxies in favor).

NPCC Multi-Area Probabilistic Reliability Assessment for Winter 2015/2016

Mr. Fedora provided an overview of the NPCC Multi-Area Probabilistic Reliability Assessment for Winter 2015/2016, provided in the Agenda package. The Task Force on



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Coordination of Planning reviewed this report at its August 18-19, 2015 meeting and recommends RCC approval.

The RCC then unanimously approved the NPCC Multi-Area Probabilistic Reliability Assessment for Winter 2015/2016, as provided in the Agenda package (all written proxies in favor).

Lambton & Sarnia-Scott Generation Rejection Type 1 Special Protection Systems (SPSs)

Messrs. Farahmand and Kandola gave a presentation of the materials provided in the Agenda package supporting approval to maintain Type I classification for the modified Lambton and Sarnia- Scott SPSs.

The Task Force on System Studies, the Task Force on System Protection, the Task Force on Coordination of Operations, and the Task Force on Coordination of Planning all reviewed the modifications and agreed that the subject SPSs should maintain Type I classification. The modifications cause no change to the SPSs for:

- ✓ Classification;
- ✓ Operation;
- ✓ Performance;
- ✓ Monitored contingencies; and,
- ✓ Maximum MW required for arming

The Task Force on Coordination of Planning reviewed the Task Forces findings at its August 18-19, 2015, meeting and has reviewed these SPS modifications for conformance with NPCC Regional Reliability Reference Directory No. 1 “Design and Operation of the Bulk Power System,” and is recommending RCC approval of this modified Type I SPS.

In response to a questioned raised by Mr. Schwerdt regarding the time the subject SPS is armed, Mr. Kandola indicated that it is armed when a certain level of generation is reached, which occurs approximately 1% of the time.

The RCC then approved the Lambton & Sarnia-Scott Generation Rejection Type 1 Special Protection System, as provided in the Agenda package (with Consolidated Edison and all its proxies abstaining; all written proxies in favor).

Assessment Report for the 2014 CCEP Implementation Plan

Mr. Kopman stated on July 15, 2015, the NPCC Compliance Committee voted to approve the Assessment Report for the 2014 CCEP Implementation Plan. The assessment report provided in the Agenda package summarizes the Compliance Committee’s review and findings associated with the certifications submitted as per the 2014 CCEP Implementation Plan. He explained that the CCEP-1 Process Document directs the NPCC Compliance



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Committee to present an annual assessment report for approval at the 3rd quarter RCC meeting.

The RCC then unanimously approved the Assessment Report for the 2014 CCEP Implementation Plan, as provided in the Agenda package (all written proxies in favor).

Directory No. 4 – System Protection Criteria

Mr. Wegh reported that The Task Force on System Protection conducted a comprehensive review of Directory No. 4 and has revised the document in consideration of emerging protection technologies, industry lessons learned and the impact of retiring NPCC Directory No. 3 Maintenance Criteria for BPS Protection.

He said that contingent upon RCC approval and in accordance with the NPCC By-Laws, these revisions will be balloted by the NPCC Full Member Committee for final approval.

The RCC then recommended the Directory No. 4 – System Protection Criteria, as provided in the Agenda package be balloted by the NPCC Full Member Committee for approval. (with one abstention – Jim Watson, Sector 4 - Generator Owners - Dynegy, Inc.; all other written proxies in favor).

Mr. Schiavone then thanked Mr. Dunbar and the associated Task Forces and their Working Groups for their diligent efforts in reaching a consensus on the revision of Directory No. 1. Mr. Dunbar also acknowledged the effort of the NPCC Members.

Presentations

Conductor Clearance Alert - Best Practices – National Grid

Mr. Schiavone presented a summary of National Grid's Conductor Clearance Committee activities provided in the Agenda package. The program provides guidance to the industry on the best practice methods and cost-effective programs developed to sustain adequate conductor clearances consistent with facility ratings.

Preliminary Results – NPCC Overall Reliability Assessment

Mr. Latulipe gave a summary presentation of preliminary results from the NPCC Overall Reliability Assessment provided in the Agenda package. He indicated that the final report would be presented for approval at the December 1, 2015 RCC meeting.

NPCC Load Modeling Working Group Interim Results

Mr. Widjaja provided a report of the SS-38 Load Modeling Working Group's effort on the development of dynamic load models provided in the Agenda package, including the consideration of the load surveys and benchmarking tests completed on the models.



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NERC Essential Reliability Services Task Force (ERSTF) Recommendations

Mr. Evans-Mongeon described the ERSTF history, recommendations and measures described in the Agenda package. The next steps involve seeking NERC OC/PC acceptance of Framework Report at their December 15-16, 2015 meeting, followed by the NERC Board of Trustees review and approval at their February, 2016 meeting.

Status Reports

Mr. Schiavone referred the RCC to the materials provided in the Agenda package; the RCC discussed the following Agenda items:

Task Force on Infrastructure Security & Technology (TFIST) Update

Mr. Appelbaum highlighted the recent Cyber and Physical Security activities provided in the Agenda package.

NPCC Regional Standards Committee (RSC) Report

Mr. Zito reviewed six projects that are currently posted for an initial ballot and comment, and encouraged the RCC to review and provide comments.

NPCC Compliance Committee

Mr. Kopman reviewed the materials provided in the Agenda package. Mr. Buffamante then highlighted the 2016 NERC Implementation Plan and Regional Implementation Plans, and stated that the NERC's assessment report of the implementation of the NPCC Entity Risk Assessment found NPCC to be fully aligned with NERC Inherent Risk Assessment and Internal Control Evaluation criteria.

SP-7 Working Group - Review of Protection Systems Misoperations

Mr. Wegeh reviewed the status of the SP-7 Working Group on Protection System Misoperation activities as completed through the First Quarter 2015 provided in the Agenda package.

2015-2016 Work Plan Progress

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

NPCC Reliability Assessment Program (NRAP) Highlights Report

Mr. Fedora reported at the NRAP Highlights Report was updated as of September 4, 2015 and has been posted on the NPCC website.

NERC Agenda Items

Operating Committee (OC)

Mr. Mosier reviewed the following September 2015 NERC Operating Committee Agenda items:

- ✓ Definition for Situational Awareness;



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- ✓ Resolving Eastern Interconnection Inadvertent Interchange Balances;
- ✓ Approval of the “NERC Reliability Guideline: Primary Frequency Control” for posting and public comment and,
- ✓ Approval of the Event Analysis Process Document.

Mr. Schwerdt then informed the RCC that Mr. Mosier has announced his intention to retire at the end of October, and took the opportunity to recognize his 39 years of extraordinary service. His many contributions to the RCC, NPCC Task Forces and NERC were acknowledged and greatly appreciated.

Planning Committee (PC)

Mr. Fedora reviewed the following items from the Draft September 2015 NERC Planning Committee Agenda:

- ✓ Reliability Assessment Subcommittee Update and Scope Approval;
- ✓ 2015 Long Term Reliability Assessment;
- ✓ 2015/2016 Winter Reliability Assessment;
- ✓ 2016 Short-Term Reliability Assessment Proposal;
- ✓ Probabilistic Assessment Improvement Group Update;
- ✓ Generator Availability Data System Working Group 1600 Data Request;
- ✓ Transmission Availability Data System Working Group 1600 Data Request; and,
- ✓ Approval of the “Assessment of Protection System Single Points of Failure Based on the Section 1600 Data Request.”

Critical Infrastructure Protection Committee (CIPC)

Mr. Hogue noted that there are no voting items on the September 2015 NERC Critical Infrastructure Committee Agenda; he highlighted the following items:

- ✓ ES-ISAC Update;
- ✓ Supply Chain Notice of Proposed Rulemaking;
- ✓ Development of Additional Guidance for CIP-014-1, “Physical Security” Standard, and,
- ✓ CIP V5 Transition and CIP V5 Revisions.

Informational Items

Mr. Schiavone referred the RCC to the materials included in the Agenda package. The following Informational Items were discussed at the meeting:

NPCC Operational Highlights

Mr. Mosier summarized recent NPCC Operational Highlights, as provided in the Agenda package.

Events Analysis Program (EAP)

Mr. Rufrano briefly summarized the materials provided in the Agenda package regarding recent Events Analysis Program activities.



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EPA Clean Power Plan

Previously covered in the President & CEO Report.

NPCC 2015 General Meeting

Mr. Fedora reviewed the Agenda for the NPCC 2015 General Meeting provided in the Agenda package.

Other Matters

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

Next RCC Meeting Date

Tuesday, December 1, 2015

Location

Albany Marriott

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 – Mike Bardee, David O’Connor, Juan Villar
La Régie de L’Énergie – Daniel Soulier
Ontario Energy Board – Peter Fraser
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.