



# **Rapport annuel 2020 sur l'application du Code de conduite du Coordonnateur de la fiabilité**

Déposé à la Régie de l'énergie

30 juin 2021

## Rapport annuel de 2020 sur l'application du *Code de conduite du Coordonnateur de la fiabilité du Québec*

Le 30 juin 2021

Le *Code de conduite du Coordonnateur de la fiabilité du Québec* (le « *Code de conduite* ») adopté par la Régie de l'énergie (la « Régie ») prévoit à son article 5.4 qu'un rapport annuel sur l'application du *Code de conduite* effectué auprès du président d'Hydro-Québec TransÉnergie doit être déposé auprès de la Régie et publié sur le site Internet du Coordonnateur de la fiabilité. Conformément à la décision D-2011-132 rendue par la Régie le 31 août 2011, ce rapport annuel est signé par le directeur principal — Contrôle des mouvements d'énergie et exploitation du réseau. L'attestation de conformité accompagnant ce rapport fait suite à une vérification interne de l'application du *code de conduite* au sein des directions visées d'Hydro-Québec TransÉnergie.

### **Application du *Code de conduite du coordonnateur de la fiabilité du Québec* en 2020**

Le directeur principal — Contrôle des mouvements d'énergie et exploitation du réseau, en sa qualité de responsable de l'application du *Code de conduite* a également la responsabilité du suivi de la réalisation des pistes d'amélioration relevées dans le cadre de la vérification du contrôleur.

La gestion a soutenu tout au cours de l'année les employés de la direction principale — Contrôle des mouvements d'énergie et exploitation du réseau ainsi que les autres unités visées d'Hydro-Québec relativement à l'interprétation et à l'application du *Code de conduite*.

Au cours de l'année 2020, la direction principale n'a apporté aucune modification au site du Coordonnateur de la fiabilité concernant le *Code de conduite*.

Au cours de l'année 2020, des allégations de dérogations au *Code de conduite* ont été signalées à la section plainte sur le site du Coordonnateur. Les conclusions de l'enquête reliée aux allégations démontrent que les plaintes se sont avérées non fondées.

Les annexes suivantes font partie du rapport annuel sur l'application du *Code de conduite* :

- Annexe A : illustration des organigrammes de la division Hydro-Québec

Trans Énergie et équipement, et de la vice-présidence - Technologies de l'information et des communications d'Hydro -Québec et identifie les unités dont le personnel est assujéti au *Code de conduite*.

- Annexe B : présentation de la liste des unités réalisant des tâches reliées au rôle de Coordonnateur de la fiabilité.
- Annexe C : sommaire des représentations d'Hydro-Québec TransÉnergie aux réunions du NPCC pour l'année 2020.
- Annexe D : sommaire de l'allégation de dérogation au *Code de conduite*, qui s'est avérée non fondée, reçu au cours de l'année 2020 ainsi que l'enquête menée en vertu de l'article 6.2 du *Code de conduite*.

Dans sa décision D-2021-064 du 18 mai 2021, la Régie demande au Coordonnateur de tenir compte de tout le personnel sous l'autorité du Coordonnateur, qu'ils exercent des tâches reliées au rôle du coordonnateur de la fiabilité ou non, ainsi que le personnel des autres directions du Transporteur effectuant des tâches reliées au rôle du coordonnateur de la fiabilité. Le Coordonnateur tiendra compte de cette demande lors du dépôt du prochain rapport annuel en juin 2022.

L'attestation de conformité ci-jointe certifie que les règles du *Code de conduite* ont été appliquées telles que décrites à l'article 5.4.

Le contrôleur n'a relevé aucune piste d'amélioration pour l'année 2020.

### **Conclusion**

À titre de directeur principal Contrôle des mouvements d'énergie et exploitation du réseau, je suis responsable de produire le présent rapport et d'en assurer le suivi. En 2020 le *Code de conduite* a été appliqué de façon conforme, l'enquête menée suite aux signalements des plaintes reçues a été traitée de façon impartiale et juste, et des mesures correctives jugées appropriées ont été mises en place.

**François Brassard**

Directeur principal

Contrôle des mouvements d'énergie et exploitation du réseau



**Application du *Code de conduite du Coordonnateur de la fiabilité* pour l'année 2020**  
**Attestation de conformité à l'intention de la**  
**Vice-présidente exécutive du Groupe – TransÉnergie et équipement**

Le *Code de conduite du Coordonnateur de la fiabilité* (Code) a pour but de régir les décisions et les actions du personnel afin qu'en toute circonstance la fiabilité du réseau de transport principal, qui est sous la responsabilité du Coordonnateur de la fiabilité, demeure la priorité. Il a aussi pour but de prévenir toute forme de traitement préférentiel par le personnel au profit des autres directions du Transporteur, des entités affiliées du Transporteur et des autres utilisateurs du réseau.

Pour 2020, l'attestation de conformité au Code est signée conjointement par le directeur – Conformité et développement durable et par le directeur – Planification financière et partenariat d'affaires (HQT et unités corporatives).

La responsabilité de l'application des règles énoncées dans le Code incombe au directeur principal – Contrôle des mouvements d'énergie et exploitation du réseau qui vous soumettra un rapport annuel pour l'année 2020. Selon l'article 5.4 du Code, notre responsabilité consiste à attester de la conformité de l'application des règles.

Nos travaux ont été effectués de façon à fournir l'assurance raisonnable que les règles du Code sont appliquées par l'ensemble du personnel visé par son application. Les procédures mises en œuvre ont permis de recueillir des éléments probants appropriés afin de signer la présente attestation et de fournir une assurance raisonnable du respect de l'ensemble des règles du Code.

Un engagement écrit sur le respect du Code a été reçu de la part des responsables de toutes les structures visées par le Code. Compte tenu de ce qui précède, nous attestons que le *Code de conduite du Coordonnateur de la fiabilité* a été appliqué de façon satisfaisante tout au long de l'année 2020.

Handwritten signature of Guy Lefebvre in blue ink.

2021.06.01  
13:23:28 -04'00'

Guy Lefebvre  
Directeur – Conformité et développement durable  
Groupe – Affaires corporatives, juridiques et gouvernance

Handwritten signature of Marco Vézina in blue ink.

2021.06.01  
14:43:11 -04'00'

Marco Vézina  
Directeur – Planification financière et partenariat d'affaires (HQT et unités corporatives)  
Groupe – Direction financière

|              |  |  |
|--------------|--|--|
| Date         | 30 juin 2021   | N <sup>o</sup>   |
|              |  | (Code de classement)   |
| Destinataire | <b>Claudine Bouchard</b><br>Vice-Présidente Exécutive<br>HQ TransÉnergie et équipement | Expéditeur <b>François Brassard</b><br>Directeur principal<br>Contrôle des mouvements d'énergie et<br>exploitation du réseau |

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Objet **Rapport annuel 2020 sur l'application du Code de conduite du Coordonnateur de la fiabilité du Québec (le « Code de conduite »)**

Tel que prévu à l'article 5.4 du Code de conduite, vous trouverez ci-joint le rapport annuel 2020 sur l'application du Code de conduite accompagné de l'attestation de conformité signée par le contrôleur de HQT.

Ce rapport sera déposé à la Régie de l'énergie et affiché sur le site internet du Coordonnateur de la fiabilité au cours des prochains jours.

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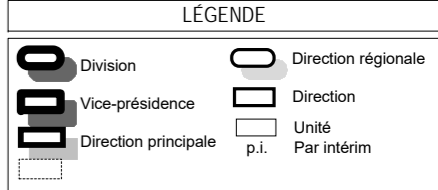
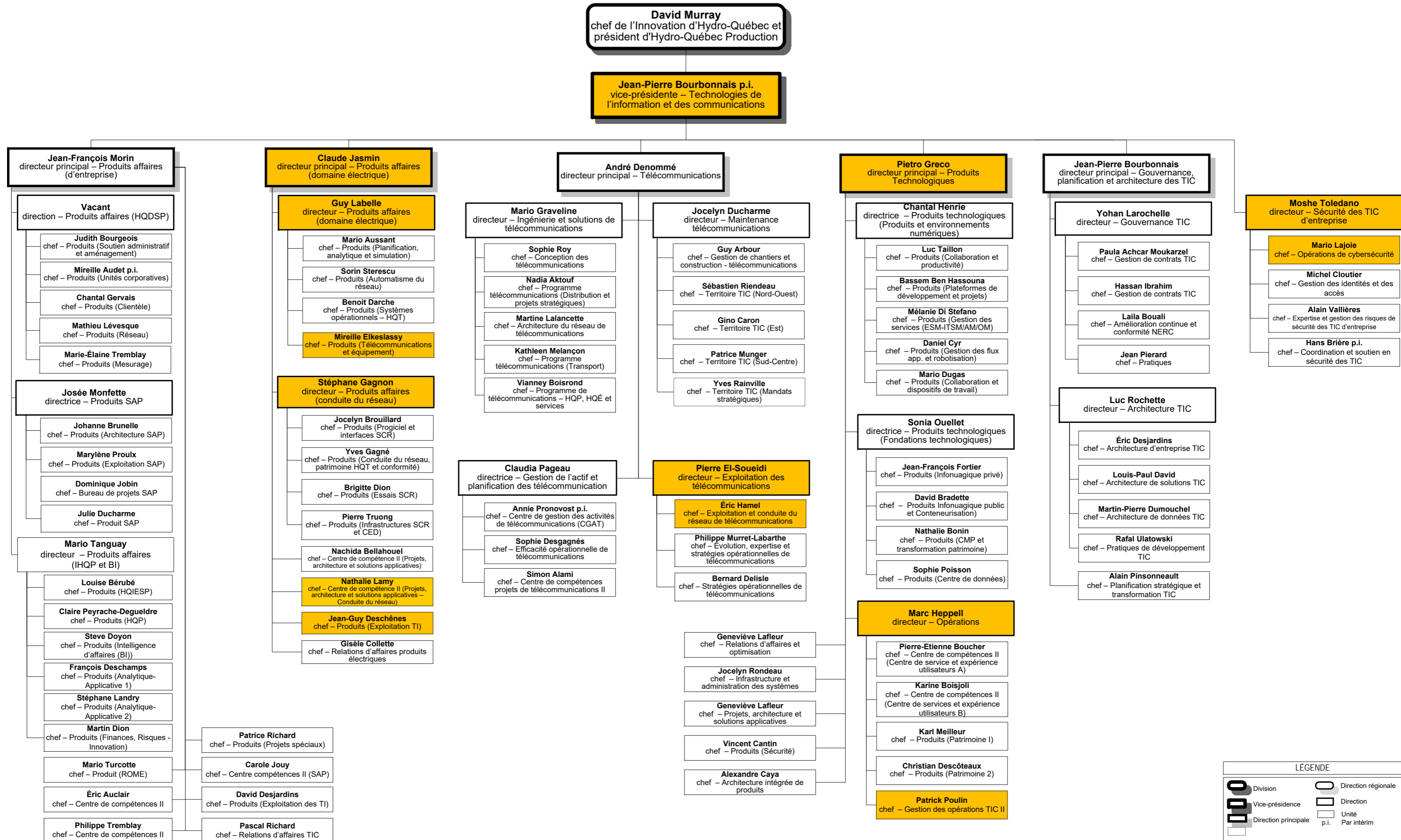
François Brassard  
Directeur principal - Contrôle des mouvements  
d'énergie et exploitation du réseau

c. c. Stéphane Desbiens, directeur– Normes de fiabilité et conformité réglementaire

## **Annexe A**

**Organigrammes identifiant les  
unités dont le personnel est  
assujetti au Code**







## **Annexe B**

### **Liste des unités réalisant des tâches reliées au rôle du Coordonnateur**

## Liste des unités réalisant des tâches reliées au rôle du Coordonnateur de la fiabilité

Le tableau 1 suivant fournit la liste des unités et leur direction d'appartenance réalisant des tâches reliées au rôle du Coordonnateur de la fiabilité, que ce soit sur une base continue, ponctuelle, exceptionnelle ou en cas d'urgence, suivant les organigrammes d'Hydro-Québec de l'annexe A du présent rapport annuel.

Tableau 1

### Unités réalisant des tâches reliées au rôle du Coordonnateur de la fiabilité

| Hydro-Québec TransÉnergie et Équipement   |  |  |          |            |                |               |
|---|--|--|----------|------------|----------------|---------------|
| Unités  | Unités intermédiaires  | Direction  | Continue | Ponctuelle | Exceptionnelle | Cas d'urgence |
| <ul style="list-style-type: none"> <li>Évolution des systèmes de conduite du réseau<sup>1</sup></li> </ul>  | Évolution des systèmes de conduite du réseau                           | Évolution des systèmes de conduite du réseau                     |          | X          |                |               |
| <ul style="list-style-type: none"> <li>Affaires réglementaires du Coordonnateur de la fiabilité, analyse et encadrements</li> <li>Mise en conformité</li> </ul> | Affaires réglementaires du Coordonnateur de la fiabilité et conformité | Normes de fiabilité et conformité réglementaire                  | X        |            |                |               |
| <ul style="list-style-type: none"> <li>Bureau de conformité</li> </ul>  | Expertise et conformité des normes de fiabilité                        | Normes de fiabilité et conformité réglementaire                  | X        |            |                |               |
| <ul style="list-style-type: none"> <li>Centre de contrôle du réseau</li> <li>Programmation et statistiques de contrôle du réseau</li> </ul>                     | Programmation et contrôle du réseau                                    | Contrôle des mouvements d'énergie et évolution de l'exploitation | X        |            |                |               |
| <ul style="list-style-type: none"> <li>Prévisions de contrôle du réseau</li> <li>Expertise de contrôle du réseau</li> </ul>                                     | Orientation et expertise de contrôle du réseau                         | Contrôle des mouvements d'énergie et évolution de l'exploitation | X        |            |                |               |

| Unités  | Unités intermédiaires                           | Direction                          | Continue | Ponctuelle | Exceptionnelle | Cas d'urgence |
|---|---|------------------------------------|----------|------------|----------------|---------------|
| <ul style="list-style-type: none"> <li>• Stratégie du réseau principal et des interconnexions</li> </ul>  | Planification et stratégies du réseau principal | Planification                      | X        |            |                |               |
| <ul style="list-style-type: none"> <li>• CT – Rouyn-Noranda <sup>1</sup></li> <li>• CT – Chicoutimi <sup>1</sup></li> </ul>                                       | Exploitation du réseau – Nord                   | Exploitation du réseau             |          |            | X              | X             |
| <ul style="list-style-type: none"> <li>• CT – Trois-Rivières <sup>1</sup></li> <li>• CT – Québec <sup>1</sup></li> <li>• CT – Baie-Comeau <sup>1</sup></li> </ul> | Exploitation du réseau – Est                    | Exploitation du réseau             |          |            | X              | X             |
| <ul style="list-style-type: none"> <li>• CT – St-Jérôme <sup>1</sup></li> <li>• CT – Montréal <sup>1</sup></li> </ul>   | Exploitation du réseau – Sud                    | Exploitation du réseau             |          |            | X              | X             |
| <ul style="list-style-type: none"> <li>• Planification des retraits Nord-Est</li> <li>• Planification des retraits Sud-Ouest</li> </ul>                           | Planification et coordination des activités     | Soutien à l'exploitation du réseau | X        |            |                |               |
| <ul style="list-style-type: none"> <li>• Stratégies de l'exploitation</li> <li>• Stratégies &amp; encadrements provinciaux</li> </ul>                             | Stratégies et orientation de l'exploitation     | Soutien à l'exploitation du réseau | X        |            |                |               |

Note 1 : Seuls les gestionnaires et les répartiteurs de ces unités sont assujettis au Code de conduite du Coordonnateur.

| <b>Vice-présidence - Technologies de l'Information et des communications</b>   |  |  |                 |                   |                       |                      |
|--|--|--|-----------------|-------------------|-----------------------|----------------------|
| <b>Unités</b>  | <b>Unités intermédiaires</b>           | <b>Direction</b>                                   | <b>Continue</b> | <b>Ponctuelle</b> | <b>Exceptionnelle</b> | <b>Cas d'urgence</b> |
| <ul style="list-style-type: none"> <li>• Opérations de Cyber-Sécurité</li> <li>• Centre de surveillance de sécurité</li> <li>• Gestion des points de contrôle de sécurité</li> </ul> | Sécurité des TIC d'entreprise          | Technologie de l'Information et des communications | X               |                   |                       |                      |
| <ul style="list-style-type: none"> <li>• Gestion des opérations TIC II</li> <li>• Gestion des opérations II</li> </ul>   | Opérations TI                          | DP-Produits technologiques                         | X               |                   |                       |                      |
| <ul style="list-style-type: none"> <li>• Télécommunications et équipement</li> </ul>   | Produits affaires (Domaine électrique) | DP-Produits affaires (Domaine électrique)          | X               |                   |                       |                      |
| <ul style="list-style-type: none"> <li>• Exploitation TI</li> <li>• Centre de compétence II</li> </ul>   | Produits affaires (Conduite du réseau) | DP-Produits affaires (Domaine électrique)          | X               |                   |                       |                      |
| <ul style="list-style-type: none"> <li>• Exploitation et conduite du réseau de télécommunication<sup>2</sup></li> </ul>  | Exploitation des télécommunications    | DP-Télécommunication                               | X               |                   |                       |                      |

Note 2 : Seuls six gestionnaires de l'unité sont assujettis au Code de conduite du Coordonnateur.

## **Annexe C**

# **Représentation de TransÉnergie dans le cadre des rencontres 2020 du RCC du NPCC**

## **Représentations de Hydro-Québec au RCC du NPCC**

En date du 23 août 2019, dans le cadre de la décision D-2019-101 en lien au dossier R-3996-2016 de la phase 2, la Régie ordonnait au Coordonnateur de la fiabilité de faire rapport une fois l'an de la teneur de ses demandes et de ses [représentations au RCC du NPCC](#).

[Le paragraphe 366](#) de la décision stipulait :

**La Régie ordonne au Coordonnateur de lui faire rapport une fois l'an de la teneur de ses demandes et de ses présentations au RCC du NPCC, en lien avec des éléments normatifs à caractère technique pour application spécifique au Québec ainsi que des réponses du NPCC à leur égard, dans le cadre de la demande d'approbation du Registre.**

Le 20 mars 2020, en suivi de la décision D-2019-101, le Coordonnateur déposait à la Régie le document HQCF11-document 1 indiquant qu'il déposera, lors du dépôt du rapport annuel, une nouvelle section contenant les dates des rencontres du RCC, ainsi que la documentation du comité RCC du NPCC diffusée à ses membres de même qu'à la Régie, telle que les ordres du jour des rencontres et le compte rendu de ces rencontres.

[Dans le cadre du suivi de la décision D-2019-101 et 2019-147 en date du 3 juin 2020](#), la Régie est satisfaite de la proposition du Coordonnateur en réponse à l'ordonnance du paragraphe 366 de la Décision. Elle est d'avis que l'inclusion de ces informations au rapport annuel du Coordonnateur sera utile à ses activités régulières en 2020. **En conséquence, elle accueille cette proposition.**

L'annexe C du rapport annuel du Code de conduite du Coordonnateur de la fiabilité ci-joint inclut les informations telles qu'exigées dans le suivi des décisions du dossier D-2019-101 et 2019-147 de la Régie de l'énergie en date du 3 juin 2020.

## Rencontres de TransÉnergie au RCC du NPCC

| Date                 | Dossiers à l'ordre du jour<br>approuvés par le RCC        | Commentaires   |
|----------------------|---|--|
| 27 février<br>2020   | <i>BPS Risk Reduction Mitigation Extensions</i>           | Le RCC a approuvé une demande d'Hydro-Québec pour une prolongation du plan de mitigation relatif au Directory 4 pour le poste Duvernay 315kV.  |
|                      | <i>Revised NPCC A-10 Criteria Document</i>                | Recommandation pour passer au vote des membres pour approbation. Le RCC approuve le document.  |
|                      | <i>Revised NPCC A-10 Implementation Plan</i>              | Recommandation pour passer au vote des membres pour approbation. Le RCC approuve le document.  |
| 27 mai 2020          | <i>2019 Quebec Comprehensive Area Transmission Review</i> | Ce document évalue la fiabilité du BPS au Québec en vérifiant, par des simulations, que le comportement du réseau répond aux exigences du NPCC à la suite d'événements. Le RCC approuve le document. |
| 9 septembre<br>2020  | <i>Directory 1 - Implementation Plan</i>                  | Recommandation pour passer au vote des membres pour approbation. Le RCC approuve le document.  |
|                      | <i>Directory 1 – A10 conforming changes</i>               | Recommandation pour passer au vote des membres pour approbation. Le RCC approuve le document.  |
|                      | <i>Directory 8 – Clarification</i>                        | Recommandation pour passer au vote des membres pour approbation. Le RCC approuve le document.  |
| 1er décembre<br>2020 | <i>Directory 7 – Remedial Action Schemes</i>              | Modifications en lien avec le terme RAS vs SPS et harmonisation du document avec la PRC-012-2. Le RCC approuve le document   |

**Minutes des réunions dans le  
cadre des rencontres 2020 du  
RCC du NPCC**





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

May 29, 2020

Members, Reliability Coordinating Committee  
and  
Members, Task Force on Coordination of Operation  
Members, Task Force on Coordination of Planning  
Members, Task Force on Infrastructure Security and Technology  
Members, Task Force on System Protection  
Members, Task Force on System Studies

Re: Minutes of the February 27, 2020 RCC Meeting

Sir / Madam:

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

Sincerely,

*Phil Fedora*

Philip A. Fedora  
Assistant Vice President - Reliability Services

cc: NPCC Staff



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

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

**Attendance**

**Officers of the Reliability Coordinating Committee**

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

**Sector 1 - Transmission Owners**

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

**Sector 2 – Reliability Coordinators**

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

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

|   |                              |
|---|------------------------------|
| Consolidated Edison Company of New York, Inc. | (proxy to Aleksandra Gofman) |
|---|------------------------------|



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

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

**Sector 4 Generation Owners**

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

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

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

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

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

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

|   |                           |
|---|---------------------------|
| New York State Reliability Council, LLC | Roger Clayton (via phone) |
|---|---------------------------|

**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                    |



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

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

**Guests**

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

**Quorum Statement**

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

**Sector 4 – Generator Owners**

Allen Schriver – NextEra Energy Resources

**Antitrust Guidelines for NPCC Meetings**

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

**President & CEO Report**

**NPCC Working Draft Strategic Plan**

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



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

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

**NPCC 2020 Corporate Reliability Goals**

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

**NPCC 2021 Business Plan & Budget Development**

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

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



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

**Chair Report**

**Agenda**

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

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

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

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

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

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

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

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



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

**NPCC Website Redesign**

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

**Policy Discussion**

**NPCC Board Activities**

*NPCC 2020 Corporate Reliability Goals*

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

**Goal**    **Description**

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

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



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

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

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

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

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

**NERC Board of Trustees Activities**

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

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

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





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

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

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

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

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

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

**NERC Committee Activities**

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

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

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

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

- ✓ E-ISAC Cybersecurity Update;



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

*Planning Committee (PC) Meeting*

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

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

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

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

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

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



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*Operating Committee (OC) Meeting*

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

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

*Critical Infrastructure Protection Committee (CIPC)*

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

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

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

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

**Consent Agenda**

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

**December 3, 2019 Meeting Minutes**

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

**RCC Membership Changes**

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

**Sector 1 - Transmission Owners**

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



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

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

**Task Force Roster Changes**

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

**Task Force on Coordination of Planning**

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

**Task Force on System Studies**

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

**Task Force on Infrastructure Security & Technology**

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

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

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

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

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

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



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

**IST-2 Telecommunications Working Group**

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

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

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

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

Approved as provided in the Agenda package.

**2019 NPCC Tie Benefits Study**

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

**2019 New England Atea intermediate Transmission Review**

Approved as provided in the Agenda package.

**BPS Risk Reduction Mitigation Extensions**

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

**Items for Approval**

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

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

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



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

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

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

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

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

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



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

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

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

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

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

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



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

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

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

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

**Discussion Items**

**NPCC 2020 Summer Reliability Assessment**

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

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

**Cyber & Physical Security Update**

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





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**Informational Items**

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

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

**Next RCC Meeting Date**

Wednesday, May 27, 2020

**Location**

[Subsequently changed to a  
Teleconference]

**Distribution of Approved Minutes**

NPCC Full & General Member Representatives and Alternates

Members, NPCC Board of Directors

Members, NPCC Reliability Coordinating Committee

Members, NPCC Public Information Committee

Members, NPCC Compliance Committee

Members, NPCC Regional Standards Committee

Members, NPCC Task Force on Coordination of Operation

Members, NPCC Task Force on Coordination of Planning

Members, NPCC Task Force on Infrastructure Security and Technology

Members, NPCC Task Force on System Protection

Members, NPCC Task Force on System Studies

NPCC Officers

NPCC Staff

Ruta Skučas,, Esq.

and

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

La Régie de L’Énergie – Christian Garneau

Ontario Energy Board – Veronica Mendes

United States Department of Energy – David Meyer

New Brunswick Department of Energy and Mines – David Sallows

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



NORTHEAST POWER COORDINATING COUNCIL, INC.  
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September 17, 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 May 27, 2020 RCC Meeting

Sir / Madam:

Attached are the Minutes of the May 27, 2020 meeting of the NPCC Reliability Coordinating Committee, as approved at the September 9, 2020 RCC meeting.

Sincerely,

*Phil Fedora*

Philip A. Fedora  
Assistant Vice President - Reliability Services

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    |
| 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     | Frank Pace                   |
| Central Maine Power Company                   | David Conroy                 |
| Consolidated Edison Company of New York, Inc. | (proxy to Aleksandra Gofman) |
| Eversource Energy                             | George Wegh                  |
| Hydro-One, Inc.                               | Ajay Garg - Alternate        |
| Long Island Power Authority                   | Anie Philip                  |
| National Grid USA                             | Abhinav Rawat                |
|   | Mark Domino - Alternate      |
| New York Power Authority                      | (proxy to Randy Crissman)    |
| New York State Electric & Gas Corp.           | (proxy to David Conroy)      |
| Nova Scotia Power, Inc.                       | Joy Brake – Alternate        |
| Orange & Rockland Utilities, Inc.             | (proxy to Ben Wu)            |
| Rochester Gas & Electric Corporation          | (proxy to David Conroy)      |
| 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 – Alternate |
| New Brunswick Power Corporation | Gaetan Beniot             |
| 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 Aleksandra Gofman) |
| 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 York Power Authority          | (proxy to Randy Crissman) |
| 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 Aleksandra Gofman) |
| Dominion Energy, Inc.                         | Sean Bodkin                  |
| Long Island Power Authority                   | (proxy to Anie Philip)       |
| NextEra Energy Resources                      | Allen Schriver               |
| New York Power Authority                      | Randy Crissman               |
| Ontario Power Generation                      | David Kwan - Alternate       |
| Talen Energy Marketing, LLC                   | (proxy to Ed Schwerdt)       |
| 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                      | (proxy to Randy Crissman)                         |
| Utility Services, Inc.                        | Brian Evans-Mongeon<br>Brian Robinson - Alternate |

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

|                             |                        |
|-----------------------------|------------------------|
| Long Island Power Authority | (proxy to Anie Philip) |
| New York Power Authority    | Shivaz Chopra          |
| 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 |
|---|---------------|

**NPCC Staff**

|                |  |
|----------------|--|
| Gerard Dunbar  | Manager, Reliability Criteria                  |
| Phil Fedora    | Assistant Vice President, Reliability Services |
| Jessica Hala   | Director, Finance and Accounting               |
| Brian Hogue    | Information Systems & Security<br>Management   |
| Andreas Klaube | Senior Engineer, Operations Planning           |



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|                         |   |
|-------------------------|---|
| Neeraj Lal              | Senior Reliability Engineer             |
| 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     |
| Ralph Rufrano           | Manager, Events Analysis                |
| Rafael Sahiholamal      | Manager, System Protection              |
| Peter Scalici           | Manager, Security Outreach Programs     |
| Edward Schwerdt         | President & CEO                         |

**Guests**

|                   |   |
|-------------------|---|
| Calvin Curry      | Vice Chair, Task Force on Infrastructure<br>Security & Technology |
| George Fatu       | Chair, Task Force on System Studies                               |
| Jim Helton        | ISO – New England   |
| Mathieu Labbe     | Hydro Quebec TransÉnergie   |
| Anthony Napikoski | Chair, Task Force on System Protection                            |
| Edward Roedel     | Vice Chair, Task Force on Coordination of<br>Planning             |
| William Vesely    | Chair, Task Force on Infrastructure<br>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.

**President & CEO Report**

**Reliability Assurance during Pandemic Times**

Mr. Schwerdt shared his best wishes for everyone's continuing health and safety during these challenging and stressful times. He said that assuring the reliability and security of the international bulk power system within Northeastern North America, has never been more vital, and the role that each of us plays in achieving that objective has never been more



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critical. Now, as much as any time in our collective pasts, society is depending on our efforts to keep the lights on, no matter where those lights happen to be burning. Reliable electricity supply is an essential element in the complex fabric of modern society. He noted his appreciation of the efforts being taken to assure that supply.

Beginning in mid-March, NPCC transitioned to full teleworking status and that mode of operation is planned to continue through, at a minimum, the beginning of July. Depending on governmental closure orders relating to COVID-19 including, mass transportation accommodations, social distancing requirements, building safety preparedness within New York City, and the several surrounding hot spot areas, NPCC could look to schedule a soft, staggered re-opening of its offices when the health and safety of its staff and any visiting industry representatives can be reasonably assured.

Capitalizing on lessons learned post 9/11 and from previous full remote working experiences post Hurricane Sandy, the NPCC staff was ably positioned to quickly and seamlessly transition into an effective and efficient virtual team. Reliability assurance efforts have been prioritized so as not to over-burden industry volunteers with important but not imminent activities. The timing of standards activities has been adjusted and compliance monitoring and assessment efforts have been modified to recognize the impacts of work-at-home and sequestration actions within the registered entities. Situation Awareness efforts have been expanded to enhance operational coordination. Reliability and security assessments have been supplemented to reflect the impacts of COVID-19 on loads and resource adequacy and sufficiency. As we proceed through today's agenda, we will strive to keep NPCC's primary objective of assuring reliability in Northeastern North America at the forefront of our deliberations.

**NPCC 2021 Business Plan & Budget Development**

Ms. Hala, NPCC Director, Finance and Accounting provided an overview of NPCC's Draft No. 1 2021 Business Plan and Budget (BP&B) included in the Agenda package. NPCC's Business Plan is fully aligned with the ERO Enterprise Long-Term Strategy.

For 2021, NPCC's total operating budget is decreasing by -2.0% and total assessments are decreasing by -3.5%. Broken down by division, the Regional Entity division budget and assessments are decreasing by 1.2%, and the Criteria Services division budget is decreasing by -13.1%, with assessments decreasing by 36.9%. The difference in the decrease in budget vs. the decrease in assessments for the Criteria Services division is due to a significant underspend in 2019, paired with a decreasing budget for 2021, resulting in the need to reduce Operating Reserves in order to remain within the NPCC policy range, which has a maximum of 25% or 90 days of budget for the Operating Reserve.



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Penalties of \$604k were collected between July 1, 2019 and year to date 2020, and those penalty monies will be applied to reduce U.S. assessments only. NPCC does not currently utilize an Assessment Stabilization Reserve (ASR), but that is something that may be considered by the NPCC Board as the cost allocation for 2021 is developed, since penalties during this period are greater than NPCC has seen in prior years. An assessment stabilization reserve would be implemented in order to avoid large fluctuations in assessments, by releasing a portion of the penalties to offset U.S. assessments collected in 2021 and retaining a portion of the penalty funds for release in subsequent years to avoid large swings in assessments.

Succession implementation costs in 2021 are excluded from the operating budget figures and are funded through existing Business Continuity Reserves, having no impact on 2021 assessments. The NPCC Board has formed a successor CEO search committee in 2020; NPCC's Incumbent President and CEO plans to retire by the end of the first quarter of 2021.

In Personnel Expenses, there is a 3% average wage package increase, a 10% increase in insurance premiums and a 6% vacancy rate, which is based on recent actual rates. There is a net increase of one FTE in the 2021 budget.

The Meeting Coordinator position was eliminated in recognition of changes in technology and the migration of meetings to teleconference and WebEx due to the current COVID-19 pandemic; it's expected that many meetings will continue to be conducted remotely in 2021 and beyond. Two employee auditors are being added in Compliance, to continue the transition away from the use of contract auditors. This organizational realignment results in the net increase of one FTE. There is a decrease in the Compliance contracts budget that offsets the increase in personnel expenses in that program area.

Meetings and Travel were reduced, related to a shift toward more remote attendance meetings. The meetings and travel budgets were decreased in all program areas by 20%, which results in Compliance having a net decrease of 10% due to the addition of two FTEs in that program area, with additional travel expenses related to those positions.

In Contracts and Consulting there is a decrease in the compliance program area related to less planned use of outside contract auditors in 2021, and there is an increase in the RAPA Program area contracts budget to enable greater focus on analytics; this is an area where the NPCC Board agreed with management that there is likely to be a need for additional analysis and assessments in 2021.



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Ms. Hala explained that some of the focus areas driving the NPCC 2021 Business Plan budget include:

- ✓ Distributed Energy Resources - the Standards program has initiated a Distributed Energy Resources (DER) Forum to look at potential benefits and impacts of DER on the reliable operation of the Bulk Electric System and for opportunities to provide coordinated Regional guidance for integrating DERs.
- ✓ The Compliance area will be working on the implementation of the ERO Enterprise CMEP tool, Align.
- ✓ In the RAPA program, focus areas include assessments of the changing resource composition, DER integration, enhancing resilience and identifying emerging risks to reliability.
- ✓ In Situation Awareness, there is an increasing focus on cyber and physical security outreach.

NPCC's Draft 1 Business Plan & Budget was posted to NPCC's website, with a comment period ending on May 29, 2020. On June 16, 2020, the NPCC FAC will meet and be asked to endorse the final 2021 Draft, which will be presented for approval by the full NPCC Board at its meeting on June 24, 2020, and finally, to be filed with FERC and the Canadian Provincial authorities on August 24, 2020.

**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.**

**NERC Response to the Pandemic**

Mr. Crissman referred the RCC to the NERC Special Report *Pandemic Preparedness and Operational Assessment: Spring 2020* provided in the Agenda package. The report reviews reliability considerations and operational preparedness undertaken during the COVID-19 pandemic.

**Executive Order on Securing the United States Bulk-Power System**

Mr. Crissman referred the RCC to the May 1, 2020 U. S. Executive Order *Securing the United States Bulk-Power System* provided in the Agenda package. The Executive Order seeks to protect America's bulk-power system by prohibiting Federal agencies and U.S. persons from acquiring, transferring, or installing BPS equipment in which any foreign country or foreign adversary national has any interest and the transaction poses an unacceptable risk to national security or the security and safety of American citizens.





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**Status of NPCC A-10 Document**

Mr. Crissman reported that the NPCC Full Members voted to approve the revised A-10 Document on March 27, 2020.

**May 14, 2020 NPCC Distributed Energy Resources (DER) Forum**

Mr. Crissman reported that the last NPCC DER Forum was held on May 14, 2020, and was well attended. Member representatives provided presentations on interconnecting DER to the Distribution System. The Electric Power Research Institute also provided an update on its activities, both completed and underway, related to DER, energy storage systems, and inverters.

**NERC GridEx V – Lessons Learned Report**

Mr. Crissman reported that NERC released its *GridEx V Lessons Learned Report*, (see Agenda package) on March 31, 2020. The report focused on lessons learned and recommendations highlighted throughout the two-day grid security exercise, which had 7,000 participants from across North America — including industry and U.S. and Canadian government partners — in November 2019.

**NPCC Website Redesign**

Mr. Hogue explained that NPCC web site will be updated for improved navigation, content and technical improvements. He noted that the NPCC Task Forces and Working Groups document retention feedback had been received. He said that a notice will be sent to users of the website at least two weeks in advance of the transition.

**Nominating Committee**

Mr. Crissman stated that a Nominating Committee needs to be formed to recommend candidate(s) for the position of RCC Co-Vice Chair to replace M. Conroy for the remainder of 2020; Mr. Conroy announced he would be retiring from Central Maine Power Company effective August 1, 2020. The two Co - Vice Chairs need to be from different voting sectors. He asked for volunteers for the Nominating Committee and asked Mr. Fedora to coordinate their efforts. Messrs. Wegh, Evans-Mongeon and Garg volunteered to serve on the Nominating Committee.

The RCC expressed their appreciation to Mr. Conroy for his contributions to NPCC, and wished him well in his retirement.

**Policy Discussion**

**NPCC Board Activities**

Mr. Crissman explained that the NPCC Board discussed the NPCC 2020 Business plan & budget, previously presented by Ms. Hala, and reviewed the policy input requested by the NERC Board of Trustees for their May 14, 2020 meeting.



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**NERC Board of Trustees Activities**

Mr. Crissman discussed the NERC Board of Trustees request for policy input provided in the Agenda package regarding the Align Tool Delay and Establishment of Secure Evidence Locker System (SEL). He explained that the combined projects (the Align tool and the ERO SEL) will provide the ERO Enterprise with a secure, effective, and harmonized platform with which to execute its Compliance Monitoring and Enforcement Program responsibilities.

**NERC Committee Activities**

The NERC Technical Committees held their last full meetings on March 3-4, 2020 in Atlanta, Georgia. During the meeting, the OC had a roundtable discussion on pandemic preparation and procedures. Members and observers discussed their individual company pandemic plans and the steps they were taking to address the emerging threat of the novel coronavirus.

The NERC Planning Committee (PC) is supporting its responsibilities for technical oversight through May 31, 2020; the PC leadership is transitioning its work activities to the Reliability and Security Technical Committee (RSTC). The PC anticipates reviewing the 2020 State of Reliability Report (SoR) and the 2020 Summer Reliability Assessment (SRA) in May, 2020. NERC Staff will provide the SoR and SRA to the PC for endorsement as part of the process of finalizing the reports. NERC staff will seek Board action on the SoR in June 2020.

The NERC Critical Information Protection Committee (CIPC) reviewed the status of the CIPC work plan, and discussed the projects and activities that will continue, but be tracked by the RSTC. It is expected that three of CIPC's existing working groups will continue their current activities. New tasks contained in the 2020 CIPC work plan will be addressed by the RSTC.

**NERC Reliability and Security Technical Committee**

Messrs. Crissman and Evans-Mongeon led a discussion of the following items scheduled for approval at the June 10, 2020 Reliability and Security Technical Committee (RSTC) Agenda included in the Agenda package:

- ✓ The MOD-025 White Paper;
- ✓ Four Inverter-based Resources Performance Task Force Standard Authorization Requests;
- ✓ Resources Subcommittee Revised Scope;
- ✓ Security Guideline: BES Cyber Systems Information (BCSI) Cloud Encryption; and,
- ✓ Cloud Solutions and Encrypting BCSI.

The RSTC also plans to receive an update from the NERC Technical Committees and discuss their respective RSTC Transition Plans.



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**Consent Agenda**

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

**February 27, 2020 Meeting Minutes**

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

**RCC Membership Changes**

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

**Sector 1 - Transmission Owners**

- ✓ Matt Sadler as the alternate representative for the Central Maine Power Company.

**Sector 2 - Reliability Coordinators**

- ✓ Richard Kowalski succeeds Mike Henderson as a primary member for ISO New England; Mike Henderson retired.
- ✓ Jim Helton succeeds Richard Kowalski as the alternate for ISO New England.

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

- ✓ Fernando Granitto succeeds Andrew Antinori as the alternate representative for the New York Power Authority.

**Task Force Roster Changes**

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

**Task Force on System Protection**

- ✓ Adam Hargrave succeeds Raj Dontireddy as the primary contact for the New York ISO.

**Task Force on System Studies**

- ✓ Isen Widjaja succeeds Christopher Reali as an alternate member, both from the Ontario IESO.

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

- ✓ Udayan Nair of IESO will no longer serve as an alternate representative for the Ontario IESO. The Ontario IESO's alternate is to be determined.
- ✓ Francis Monet will no longer serve as an alternate representative for Hydro Quebec -TE.

**Task Force on Infrastructure Security & Technology**

- ✓ Tia Spencer as an alternate member from the Central Maine Power Company.
- ✓ Robert Antonishen as an alternate member for the Ontario IESO.



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**CO-1 Working Group on Control Performance**

- ✓ Kyle Craig is no longer an alternate New Brunswick Power representative.
- ✓ Ryan McSherry becomes an alternate representative for NPCC.

**CO-2 Working Group on System Operator Training**

- ✓ Adam Gordon succeeds Jennifer Cyr as the primary Nova Scotia Power representative.
- ✓ Joy Brake becomes the alternate Nova Scotia Power representative.
- ✓ Ryan McSherry becomes an alternate representative for NPCC.
- ✓ Scott Fletcher becomes as an alternate Ontario IESO representative.
- ✓ Marc Theriault (New Brunswick Power) succeeds Rob Kapteyn (Ontario IESO) as Chair.

**CO-11 Working Group on Restoration**

- ✓ Maximus Rizk succeeds Ryan Ramcharan as the alternate representative for Consolidated Edison.
- ✓ Kevin Clark (ISO-New England) succeeds John Antonakos (Ontario IESO) as Chair.
- ✓ Glenn Pelkey (New Brunswick Power) succeeds Martin Beaudin (Hydro Quebec-TE) as Vice Chair.
- ✓ Adam Tschirhart succeeds John Antonakos as the primary Ontario IESO representative.
- ✓ John Antonakos succeeds Adam Tschirhart as the alternate Ontario IESO representative.
- ✓ Ryan McSherry becomes an alternate representative for NPCC.

**CO-12 Operations Planning Working Group**

- ✓ Salahuddin Masjedi succeeds Mathieu Labbe as the primary HQ-TE representative; Mathieu Labbe succeeds Salahuddin Masjedi as an alternate HQ-TE representative.
- ✓ Harris Miller succeeds Kyle Ardolino as the primary New York ISO representative. Kyle Ardolino succeeds Harris Miller as the alternate New York ISO representative.
- ✓ Tim Hicks (New Brunswick Power) succeeds Mathieu Labbe (HQ-TE) as Chair. Mathieu Labbe succeeds Tim Hicks as Vice Chair.
- ✓ Joseph Ricasio becomes alternate representative for the Ontario IESO [previously vacant].

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

- ✓ Greg Drake (NYSRC Consultant) succeeds Al Adamson as the representative for the New York State Reliability Council, LLC.

**SP-7 Working Group on Protection System Misoperation Review**

- ✓ Ryan Durkee succeeds Peter LaRochelle as the primary contact for New Hampshire Transmission.

**SS-37 Working Group on Base Case Development**

- ✓ Aashish Murti a new alternate representative for the New York Independent System Operator.

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

- ✓ Kai Ni the new Vice Chair for New York ISO.

**IST-2 Telecommunications Working Group**

- ✓ Bruce Melhado as a member from the Ontario IESO.



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**NPCC Directory Compliance Due to COVID-19 Response**

Approved as provided in the Agenda package.

**Items for Approval**

**2019 Quebec Comprehensive Area Transmission Review**

Mr. Labbe presented the 2019 Quebec Comprehensive Area Transmission Review report provided in the Agenda package. Hydro Quebec TransEnergie presented the 2019 Quebec Comprehensive Area Transmission Review report to the Task Force on Coordination of Planning (TFCP) at its May 6-7, 2020 meeting.

The Quebec comprehensive transmission review assessed the reliability of the Quebec Area bulk power system by examining the impact of changes in forecasted system conditions and planned facilities. The review concluded that the planned transmission system for the Quebec Area through the winter of 2023/2024 and summer of 2024 is in conformance with the NPCC document Directory No. 1.

The Task Force on System Studies (TFSS) conducted a review and accepted the report at its March 2020 meeting. The Task Force on Coordination of Planning (TFCP) reviewed the attached report and agrees with the completeness and acceptability of the 2019 Quebec Comprehensive Area Transmission Review.

TFCP recommended RCC approval of the 2019 Quebec Comprehensive Area Transmission Review.

**The RCC then unanimously approved the 2019 Quebec Comprehensive Area Transmission provided in the Agenda package.**

**Discussion Items**

**NPCC Area Pandemic Response Roundtable**

The RCC discussed the NPCC Area Pandemic Response materials provided in the Agenda package. Messrs. Adam (Ontario IESO), Kowalski and Helton (ISO-New England) and Smith (New York ISO) provided additional updates for their respective areas.

**NPCC Directory No. 7 Revision**

Ms. Brake summarized the NPCC Directory No. 7 revision provided in the Agenda package. She explained that the NPCC Task Forces are presently conducting a comprehensive review



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of NPCC Directory No. 7 *Special Protection Systems (SPS)* to ensure that the criteria are consistent with the requirements of PRC-012-2 *Remedial Action Schemes (RAS)*. NPCC Task Force Members considered existing ‘typing’ requirements, the current regional review process and its impact with the compliance requirements of the standard and the current practice of providing certain exceptions to the criteria.

Additionally, the Task Force on Coordination of Planning (TFCP) proposed a revision to the existing approval process for a Type I and Type II Remedial Action Scheme whereby the TFCP will approve such Remedial Action Schemes instead of the RCC.

The TFCP proposed this change to conform with PRC-012-2 which requires approval of a Remedial Action Scheme within a certain time period and which could result in frequent RCC approval emails or conference calls in order to approve a Remedial Action Scheme within the prescribed standards time line. The TFCP anticipates posting a revised version of Directory No. 7, a revised Glossary definition for SPS and a cost effectiveness survey as required by the NPCC *Directory Development and Revision Manual*.

**May RCC NPCC Goal Deliverables**

**Goal IB-1**

Mr. Fedora presented the approach, scenarios and assumptions provided in the Agenda package developed to evaluate the applicability of alternative resource adequacy metrics with significant DER/renewable penetration and load variability. The analysis will use the CP-8 Working Group’s G.E. MARS database to develop a model suitable for the 2020, 2025 and 2030 time periods, based on the reported NERC 2020 Long-Term Reliability Assessment data.

**Goal II-2**

Mr. Le provided an overview of the planned Dynamic Model Improvements Workshop outlined in the Agenda package that was developed to provide NPCC planning coordinators and generator owners the opportunity to identify potential improvements in dynamic models. The workshop is planned to be held on September 17, 2020 in conjunction with the September 15-16, 2020 Task Force on Systems Studies meeting. Given the uncertainty regarding New York state and city pandemic restrictions at that time, the RCC recommended holding the workshop in a WebEx format.

**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.



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BES Cyber Systems Information

The Standards Development Team is working on explicitly allowing BES Cyber Systems Information to be stored in the cloud; the next posting has been rescheduled to July 2020.

CIP Supply Chain

Two US Presidential Orders:

- Securing the BPS (May 1, 2020); and,
- Positioning, Navigation, and Timing Services (February 12, 2020).

IST-5 Physical Security Working Group

- Developing Lessons Learned from COVID-19 experience;
- NYPD Counter Terrorism training on Suspicious Mail Handling Active Shooter; and,
- Updating the Smart Practices document.

**Informational Items**

Mr. Crissman noted the June 25, 2020 FERC Reliability Technical Conference has been postponed. He 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**

September 9, 2020

**Location**

[Changed to a Teleconference]

**Distribution of Approved Minutes**

NPCC Full & General Member Representatives and Alternates  
Members, NPCC Board of Directors  
Members, NPCC Reliability Coordinating Committee  
Members, NPCC Public Information Committee  
Members, NPCC Compliance Committee  
Members, NPCC Regional Standards Committee  
Members, NPCC Task Force on Coordination of Operation  
Members, NPCC Task Force on Coordination of Planning  
Members, NPCC Task Force on Infrastructure Security and Technology  
Members, NPCC Task Force on System Protection  
Members, NPCC Task Force on System Studies  
NPCC Officers  
NPCC Staff  
Ruta Skučas,, Esq.

May 27, 2020

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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.





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**

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| Long Island Power Authority       | (proxy to Anie Philip)    |
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| New Brunswick Power Corporation   | Randy MacDonald           |
| Orange & Rockland Utilities, Inc. | Ben Wu                    |

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| 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 |
|---|---------------|

**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                        |
| <br>                    |  |
| <b><u>Guests</u></b>    |  |
| Lincoln Burton          | Consolidated Edison Company<br>of New York, Inc.             |
| Edward Davidian         | Chair, SS-38 Load Management<br>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<br>Planning        |
| Dan Taft                | Consolidated Edison Company<br>of New York, Inc.             |
| William Vesely          | Chair, Task Force on Infrastructure<br>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](http://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 3<sup>rd</sup> 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.





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

March 4, 2021

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 December 1, 2020 RCC Meeting

Sir / Madam:

Attached are the Minutes of the December 1, 2020 meeting of the NPCC Reliability Coordinating Committee, as approved at the February 24, 2021 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 WebEx 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                |
| Anie Philip, Co-Vice Chair  | Long Island Power Authority |

**Sector 1 - Transmission Owners**

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

**Sector 2 – Reliability Coordinators**

|                                 |                          |
|---------------------------------|--------------------------|
| Hydro-Quebec TransEnergie       | (proxy to Maxime Nadeau) |
| ISO New England, Inc.           | Rich Kowalski            |
|                                 | Jim Helton – Alternate   |
| New Brunswick Power Corporation | Alan MacNaughton         |
| New York ISO                    | Zach Smith               |
| Ontario IESO                    | Gabriel Adam             |

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

|   |                            |
|---|----------------------------|
| Consolidated Edison Company of New York, Inc. | Dermot Smyth               |
| Eversource                                    | Lincoln Burton - Alternate |
| Hydro-Quebec Distribution                     | Barry Bruun                |
|   | Stephanie Giaume           |



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|                                   |   |
|-----------------------------------|---|
| Long Island Power Authority       | Hakim Sennoun - Alternate<br>(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<br>of New York, Inc. | (proxy to Martin Paszek) |
| Dominion Energy, Inc.                            | Sean Bodkin              |
| Long Island Power Authority                      | (proxy to Anie Philip)   |
| New York Power Authority                         | Randy Crissman           |
| NextEra Energy Resources                         | Allen Schriver           |
| Ontario Power Generation                         |                          |
|  | David Kwan - Alternate   |
| Vistra Energy Corp.                              | Ken Stell                |

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

|   |                            |
|---|----------------------------|
| Consolidated Edison Company of<br>of New York, Inc. | Aleksandra Gofman          |
| Long Island Power Authority                         | (proxy to Anie Philip)     |
| New York Power Authority                            | (proxy to Randy Crissman)  |
| Utility Services, Inc.                              | Brian Robinson (Alternate) |

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

|                             |                        |
|-----------------------------|------------------------|
| Long Island Power Authority | (proxy to Anie Philip) |
| New York Power Authority    | Shivaz Chopra          |
| 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 | (via written proxy) |
|---|---------------------|

**NPCC Staff**

|                |  |
|----------------|--|
| Gerard Dunbar  | Manager, Reliability Criteria                              |
| Phil Fedora    | Vice President, Reliability Services and Chief<br>Engineer |
| Brian Hogue    | Information Systems & Security<br>Management               |
| Andreas Klaube | Senior Engineer, Operations Planning                       |
| Neeraj Lal     | Senior Reliability Engineer                                |
| Khnat Latt     | Compliance Auditor   |
| Quoc Le        | Manager, System Planning                                   |



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|-------------------------|---|
| 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     |
| 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   |

**Guests**

|                   |  |
|-------------------|--|
| Dave Conroy       | RLC Engineering, PLLC  |
| Calvin Curry      | Vice Chair, Task Force on Infrastructure Security & Technology                         |
| George Fatu       | Chair, Task Force on System Studies  |
| Aaron Markham     | Chair, task Force on Coordination of Operation Hydro-Quebec TransEnergie and Equipment |
| Maxime Nadeau     | Chair, Task Force on System Protection   |
| Anthony Napikoski | New York ISO   |
| Kai Ni            | New York Power Authority   |
| Frank Ronci       | Vice Chair, Task Force on Coordination of Planning                                     |
| Edward Roedel     | Chair, Task Force on Infrastructure Security & Technology                              |
| William Vesely    | Consolidated Edison Company of New York  |
| Helen Wang        | ISO-New England  |
| Peter Wong        | ISO-New England  |
| Fei Zeng          | ISO-New England  |

**Quorum Statement**

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

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

Roger Clayton - New York State Reliability Council, LLC.



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**Antitrust Guidelines for NPCC Meetings**

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

**President & CEO Report**

**NPCC Board's Working Draft Strategic Plan**

Mr. Schwerdt focused his report on the ongoing efforts by the NPCC Board regarding its *2021 – 2024 Working Draft Strategic Plan*. Strategic planning, to proactively identify evolving challenges and issues and capitalize on emerging opportunities, helps NPCC maintain its leadership role in bulk power system reliability assurance. Each year the NPCC Board meets in Strategic Session to consider Member company reliability concerns, and review and provide input to the ERO Enterprise Long Term Strategy and the Reliability Issues Steering Committee's risk heat map and NERC's future activities.

This year's updates and revisions to the NPCC Working Draft Strategic Plan affirmed the previously identified major emerging challenges, with a somewhat revised change in emphasis. Those key reliability focus areas are: Enhancing System Resilience and Assuring Energy Sufficiency; Reliably Integrating the Resources brought forward by Societal De-carbonization Objectives, including Distributed Energy Resources; and Addressing Cyber and Physical Threats.

**Enhancing System Resilience and Assuring Energy Sufficiency**

Targeted reliability activities to support system resilience and energy sufficiency, include: evaluating the sufficiency of energy conservation plans to support energy security and resource adequacy; utilizing proposed resilience metrics to better quantify the reliability enhancements of pre-event operations in a more secure state; and assessing common mode failure and single points of disruption scenarios involving communications, water, and other interdependent critical infrastructure sectors.

**Reliably Integrating the Resources brought forward by Societal De-carbonization Objectives, including Distributed Energy Resources**

With respect to the reliability challenges and opportunities related to societal de-carbonization objectives, all of the States and Provinces within the NPCC Region have established de-carbonization objectives that will have the effect of significantly modifying not only the sources and characteristics of future electric energy production, but also where they will be located and what deliverability challenges may be introduced. Future uses of energy, such as increases in the electrification of the transportation and building sectors will also play a critical role in accomplishing societal de-carbonization expectations. The opportunity NPCC has, in conjunction with its Members, will be to fully understand and leverage the operating characteristics and capabilities of the emerging technologies to support a high level of reliability. Key attributes essential to the reliable operation of the



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Bulk Power System of the electric system will continue to be NPCC's focus area as this grid transformation unfolds. Targeted reliability activities to support this specific focus area include:

- ✓ expanding probabilistic assessments incorporating energy sufficiency and transmission security metrics to better understand the frequency, duration, and magnitude of potential future power supply shortfalls due to more intermittent energy-limited resources on the grid;
- ✓ enhancing the RSC's review and coordination of distributed energy resource local requirements and the identification of potential inconsistencies between State and Provincial regulatory rules; and,
- ✓ quantifying the contributions to future essential reliability services from resources brought forward by societal de-carbonization objectives.

Addressing Cyber and Physical Threats

Lastly, Mr. Schwerdt summarized the targeted reliability activities related to cyber and physical threats, including:

- ✓ continuing NPCC's outreach efforts to Member companies;
- ✓ conducting Design Basis Threat training for NPCC registered entities to enhance their security; and,
- ✓ enhancing NPCC IT's security posture and data loss prevention procedures against the NIST Cyber Security Framework.

The NPCC Board is scheduled to review and endorse the latest version of its Working Draft Strategic Plan for 2021 – 2024 at its December 2, 2020 meeting; following that action a redacted version of the plan will be distributed to the RCC and Task Force Chairs for their respective use.

**Chair Report**

**Agenda**

Mr. Crissman reviewed the Agenda provided in the Agenda package.

**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 2021 Co- Vice Chair. 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 Michael Jones for the position of 2021 RCC Co-Vice Chair. He has indicated his willingness and ability to serve. He is a member of Sector 3 (Transmission Dependent Utilities, Distribution Companies and Load Serving Entities), so



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there is no conflict with Gabriel Adam, 2021 RCC Chair (Sector 2 – Reliability Coordinators) and Anie Philip, 2021 RCC Co-Vice Chair (Sector 1 – Transmission Owners).

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

Mr. Zito summarized the last NPCC DER Forum that was held on October 15, 2020. He noted that the Regional Standards Committee, in conjunction with various industry participants, has developed and approved the NPCC Guidance Document, *Distributed Energy Resources (DER) Considerations to Optimize and Enhance System Resilience and Reliability* provided in the agenda package.

The next NPCC DER Forum is scheduled for February 11, 2021. Mr. Zito indicated that the agenda is in the process of being finalized, and described some of the anticipated presentation topics.

**November 20, 2020 RCC Informational Webinar**

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

- ✓ Goal III-3 - Expand NPCC physical security programs and activities, including increase coordination and collaboration with the critical cross-sectors to mitigate interdependencies' risk in the areas of physical security;
- ✓ Goal IB-2 - Enhance the reference document on restoration plans to evaluate the impacts of critical infrastructure interdependencies on a consistent basis;
- ✓ Goal II-3 - Enhance the consistency of the short-circuit modeling practices used within the NPCC Areas; and,
- ✓ Goal III-1 - Organize and facilitate cyber-security training for system operators in order to improve NPCC members' security posture and response capabilities.

**Reliability Coordinating Committee Work Plan for Calendar Years 2021-2022**

Mr. Crissman reminded the RCC that the review and approval of the proposed RCC 2021 – 2022 Work Plan will take place following the RCC's approval of the proposed NPCC Task Force 2021 – 2022 Work Plans later in the meeting.

**RCC Scope**

Mr. Crissman noted that consideration of the updated RCC Scope is part of the consent Agenda. He noted that the only change was a correction to the numbering of the listed responsibilities.

**2021 RCC Roster**

Mr. Fedora referred the RCC to the 2021 RCC Roster provided in the Agenda package; the roster will be acknowledged at the December 2, 2020 NPCC Annual Meeting of the Members.

**2021 RCC Meeting Locations and Dates**

Mr. Fedora reviewed the following finalized 2021 RCC meeting schedule:



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- ✓ Wednesday February 24, 2021 – via WebEx
- ✓ Wednesday May 26, 2021 – via WebEx
- ✓ Wednesday September 8, 2021 – via WebEx
- ✓ Tuesday November 30, 2021 – Halifax, Nova Scotia (in conjunction with the NPCC 2021 Board/Annual/General Meetings)

**NPCC Website Features**

Mr. Hogue provided an overview of the new NPCC Website features provided in the agenda package.

**Policy Discussion**

**NERC Reliability and Security Technical Committee**

Messrs. Crissman and Schriver reviewed the items approved/accepted/endorsed at the September 15, 2020 and October 14, 2020 NERC Reliability and Security Technical Committee (RSTC) meetings. The RCC also discussed the Agenda items scheduled for the December 15, 2020 RSTC meeting. The RSTC Agenda materials were included in the Agenda package.

**NPCC Board Activities**

Mr. Crissman thanked Mr. Schwerdt's for his summary of the NPCC Board's Working Draft Strategic Plan activities provided in his report. Mr. Crissman reviewed the Policy Input provided to the NERC Board of Trustees by the NPCC Board of Directors regarding the framework to address known and emerging reliability and security risks and the top priorities for NERC over the next three years. The NPCC Policy input was included in the Agenda package.

Mr. Garg asked if NPCC Transmission Owners were using real-time line/transformer ratings in their operations. Messrs. Markham and Helton provided their respective New York and New England ISO practices. After discussion, the RCC directed the Task Force on Operation to follow-up on the question and report back to the RCC when they have developed a response.

**NERC Member Representatives Committee/Board of Trustees Activities**

Mr. Crissman reviewed the key actions taken at the NERC Member Representatives Committee (MRC)/Board of Trustees (BOT) November 5, 2020 meetings, including:

- ✓ Approval of the 2021 ERO Enterprise Work Plan priorities, which identify key activities that will be tracked and reported on throughout the year and that align closely with the ERO Enterprise Long-Term Strategy;
- ✓ Adoption of Project 2019-03 – Cyber Security Supply Chain Risks standards for FERC filing; and,
- ✓ Approval the NERC 2021–2023 Reliability Standards Development Plan,





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Updates on NERC's efforts to address reliability risks related to cold weather, the NERC 2020/2021 Winter Reliability Assessment, and the NERC 2020 Long-Term Reliability Assessment were also discussed. The respective NERC MRC and BOT Agenda materials were included in the agenda package.

**Consent Agenda**

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

**September 9, 2020 Meeting Minutes**

The minutes were approved, as provided in the Agenda package, with editorial/grammatical changes/corrections noted at the meeting.

**RCC Membership Changes**

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

**Sector 2 – Reliability Coordinators**

- ✓ Maxime Nadeau to replace Francois Brassard as the representative for Hydro-Quebec TransEnergie and Equipment.
- ✓ Francois Brassard to replace Stephane Desbiens as the alternate representative for Hydro-Quebec TransEnergie and Equipment.

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

- ✓ John Ng to serve as the representative for the Long Island Power Authority.

**Sector 4 – Generator Owners**

- ✓ Helen Wang to replace Daniel Valle as alternate for the Consolidated Edison Company of New York.
- ✓ Frank Ronci to replace Randy Crissman as the New York Power Authority representative, effective January 1, 2021.
- ✓ Salvatore Spagnolo to replace Bruce Fardanesh as alternate for the New York Power Authority.

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

- ✓ Saul Rojas to replace Erik Barrios as alternate for the New York Power Authority.

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

- ✓ Dave Conroy as the representative, Brian Conroy as the alternate for RLC Engineering, PLLC.

**Task Force Roster Changes**

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



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**Task Force on System Protection**

- ✓ Paul DiFilippo is no longer the primary contact for TRC.
- ✓ Paul DiFilippo succeeds Brian Langlais as the primary contact for IRONHOUSE.
- ✓ Brian Langlais as the alternate contact for IRONHOUSE.
- ✓ Andrew Schorn as the alternate contact for NB Power.

**SP-7 Working Group on Protection System Misoperation Review**

- ✓ Paul DiFilippo succeeds Chad Dwelley as the primary contact for IRONHOUSE.
- ✓ Chad Dwelley as the alternate contact for IRONHOUSE.

**SS-38 Load Modeling Working Group**

- ✓ Saad Hameed to join as a new member representing Consolidated Edison Company.

**Task Force on Infrastructure Security & Technology**

- ✓ David Lemstra will no longer serve as the Ontario Power Generation Inc. alternate.
- ✓ Erin Doane as New York State Electric & Gas alternate.
- ✓ Jason Hammerschmidt will no longer serve as the Ontario IESO alternate.
- ✓ Tony McMullen as the PSEG Fossil LLC alternate
- ✓ Haizhen Wang as the Consolidated Edison Company of New York, Inc. alternate.

**CO-2 Working Group on System Operator Training**

- ✓ Robert Perrault of the New York ISO to succeed Marc Theriault of New Brunswick Power as Chairman.
- ✓ Justin Shumaker to succeed Eduardo Sanchez, both from ISO-New England as Vice-Chairman.
- ✓ Eduardo Sanchez to succeed Justin Shumaker as the ISO-New England alternate.
- ✓ Marc Theriault as New Brunswick Power alternate.
- ✓ Jason Marshall to succeed Marc Theriault as the New Brunswick Power member.

**CO-10 Working Group on System Operational Tools**

- ✓ Daniel Ilse to succeed Frank Kopeki alternate for the New York ISO.
- ✓ Bertrand Lambert to succeed Maxime Nadeau as alternate for Hydro-Quebec.
- ✓ Usama Shafiq to succeed Pablo Gutierrez as representative for the Ontario IESO.

**CO-11 Working Group on Restoration**

- ✓ John Antonakos to replace Adam Tschirhart as the Ontario IESO member.
- ✓ Dan Cammarata as a National Grid alternate member.
- ✓ Sonya Konzak to succeed Patrick Toner as the Hydro Quebec alternate member.

**CO-12 Working Group on Operations Planning**

- ✓ Joseph Ricasio will no longer serve as the Ontario IESO alternate.
- ✓ Connor Corsi succeeds Joseph Cohen as the ISO-New England alternate.

**CP-8 Working Group**

- ✓ Manasa Kotha succeeds Peter Wong as the ISO-New England alternate.



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**Nominating Committee RCC Co-Vice Chair Recommendation**

Approved as provided in the Agenda package.

**2020 Interim Area Transmission Reviews**

- ✓ Maritimes Area - Approved as provided in the Agenda package.
- ✓ New England - Approved as provided in the Agenda package.

**2020 Interim Area Reviews of Resource Adequacy**

- ✓ New York - Approved as provided in the Agenda package.
- ✓ Maritimes Area- Approved as provided in the Agenda package.
- ✓ Ontario – approved as provided in the Agenda package.

**2020 NPCC Long Range Adequacy Overview**

Approved as provided in the Agenda package.

**2020 NERC Probabilistic Assessment – NPCC Region**

Approved as provided in the Agenda package.

**2021 NPCC Criteria Compliance Enforcement Program Implementation**

Approved as provided in the Agenda package.

**NPCC Directory No. 8 – Key Facilities (KF)-3 Testing Implementation Plan**

Approved as provided in the Agenda package.

**RCC Scope**

Approved as provided in the Agenda package.

**Items for Approval**

**2020 Quebec Area Comprehensive Review of Resource Adequacy**

Ms. Giaume presented the *2020 Quebec Area Comprehensive Review of Resource Adequacy* provided in the Agenda package.

The Review covering the period from the winter 2020-2021 through winter 2024-2025 demonstrated that the Quebec Area complies with the NPCC resource criterion that requires a loss of load expectation value of not more than 0.1 days/year for all years of the Review.

The Task Forced on Coordination of Planning agreed with the Review’s conclusion that the Quebec Area complies with the NPCC resource adequacy criterion and recommended RCC approval of the *2020 Quebec Area Comprehensive Review of Resource Adequacy* provided in the Agenda package.



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**The RCC then unanimously approved the 2020 Quebec Area Comprehensive Review of Resource Adequacy provided in the Agenda package (written proxy in favor).**

**2020 New England Area Comprehensive Review of Resource Adequacy**

Mr. Zeng presented the 2020 New England Area Comprehensive Review of Resource Adequacy provided in the Agenda package.

The Review covering the period from 2021 through 2025 demonstrated that the New England Area complies with the NPCC resource criterion that requires a loss of load expectation value of not more than 0.1 days/year for all years of the Review.

The Task Force on Coordination of Planning agreed with the Review's conclusion that the New England Area complies with the NPCC resource adequacy criterion and recommended RCC approval of the 2020 New England Area Comprehensive Review of Resource Adequacy provided in the Agenda package.

**The RCC then unanimously approved the 2020 New England Area Comprehensive Review of Resource Adequacy provided in the Agenda package (written proxy in favor).**

**Directory No. 7 Revision – Remedial Action Schemes (RAS)**

Ms. Brake reviewed the revised NPCC Directory No.7 Special Protection Systems provided in the Agenda package. In accordance with the NPCC Directory Development and Revision Manual the NPCC Task Forces completed a comprehensive review of Directory No. 7 to ensure that the NPCC criteria is consistent with the NERC Standards as required by the NERC Rules of Procedure. She explained that revisions to NPCC Directory No. 7 include:

- ✓ Renaming the document title to 'Remedial Action Systems';
- ✓ Alignment of the existing regional review process to facilitate compliance with PRC -012-2;
- ✓ Revisions to the RAS approval process within NPCC for a Type I and Type II RAS;
- ✓ Clarifying the language surrounding exceptions to the NPCC more stringent criteria;
- ✓ Alignment of the definition for a Limited Impact RAS (Type III) with the NERC footnote in PRC-012-2 to highlight containment within the local area;
- ✓ Revisions to the definition of a Type I and Type II RAS so that both are mutually exclusive of a Limited Impact RAS;
- ✓ Added security criteria for a Type I RAS; and,
- ✓ Minor revisions to the Flow Charts.

She also explained that the definition of the existing NPCC Glossary term 'Special Protection Systems (SPS)' will be replaced by 'See NERC RAS' to reflect the adoption of the NERC Glossary term for Remedial Action Scheme (RAS). The NPCC term 'SPS' can still be used if required for existing documentation or identification.



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In addition, the Task on System Protection has also proposed a new Glossary Term and definition for RAS Group. The proposed definition has been included in Section 2.0 of the document and will be transferred to the NPCC Glossary of Terms upon Full Member approval.

**The RCC unanimously recommended balloting the revised NPCC Regional Reliability Directory No. 7 – Remedial Action Schemes for Full Member approval (written proxy in favor).**

**NPCC 2020 - 2021 Winter Reliability Assessment**

Messrs. Klaube and Fedora presented the results of the NPCC 2020-2021 Winter Reliability Assessment provided in the Agenda package. The NPCC 2020 -2021 Winter Reliability Assessment was approved by the Task Force on Coordination of Operation on November 12, 2020; the corresponding NPCC 2020 - 2021 Winter Multi-Area Probabilistic Reliability Assessment was approved by the Task Force on Coordination of Planning on November 4, 2020 and is included as Appendix VIII.

**The RCC then unanimously approved the NPCC 2020 – 2021 Winter Reliability Assessment provided in the Agenda package (written proxy in favor).**

**2020 NPCC Overall Transmission Assessment**

Mr. Ni reported that the NPCC SS-38 Working Group completed the 2020 NPCC Overall Transmission Assessment, and provided an overview presentation provided in the Agenda package. The draft report was submitted to Task Force on System Studies for review at its meeting on November 4-5, 2020; the comments received have been accepted and are included in the 2020 NPCC Overall Transmission Assessment provided in the Agenda package.

**The RCC then unanimously approved the 2020 NPCC Overall Transmission Assessment provided in the Agenda package (written proxy in favor).**

**2021 - 2022 Task Force Work Plans**

The Task Force chairs highlighted their respective 2021 - 2022 Task Force Work Plans provided in the Agenda Package.

**The RCC then unanimously approved the 2021 - 2022 Task Force Work Plans as provided in the Agenda package (written proxy in favor).**

**Reliability Coordinating Committee Work Plan for Calendar Years 2021-2022**

Following the review and approval of the NPCC Task Forces' respective 2020 - 2021 Work Plans, the RCC reviewed its corresponding 2021 – 2022 Work Plan.



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Mr. Fedora explained that the Reliability Coordinating Committee Work Plan for Calendar Years 2021-2022 is consistent with the NPCC 2021 Business Plan & Budget, the RCC Scope, the 2019 ERO Reliability Risk Priorities Report, the NPCC Working Draft Strategic Plan 2021-2024, and the 2021 ERO Enterprise Work Plan Priorities, which identify key activities that will be tracked and reported on throughout the year and that align closely with the ERO Enterprise Long-Term Strategy.

He noted a correction on page 7 to reference GridEx VI: “Supporting GridEx VI activities and review “lessons learned.”

**The RCC then unanimously recommended that the Reliability Coordinating Committee Work Plan for Calendar Years 2021-2022, as provided in the Agenda package with the noted correction be submitted for NPCC Board approval (written proxy in favor).**

**Discussion Items**

**December RCC NPCC Goal Deliverables**

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

Goal IA-1

Mr. Rufrano reported on quantifying system strength/robustness margins as a potential system resilience metric, based on the results of NPCC’s Overall Transmission Assessments and NPCC Area Comprehensive Area Transmission Reviews.

Goal IB-1

Mr. Fedora report the findings of the evaluation of the applicability of alternative resource adequacy metrics, with significant DER/renewable penetration and load variability.

Goal II-2

Mr. Lombardi summarized the NPCC modeling workshop conducted on September 17, 2020 via a virtual webinar event involving many industry participants including NPCC planning coordinators, generator owners and other stakeholders and reported on the ‘lessons learned’ regarding potential improvements in dynamic models. Mr. Crissman asked Mr. Lombardi to prepare a summary report of the workshop presentation provided in the Agenda package and distributed to the RCC when available.

**2021 NPCC Corporate Goals**



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A RCC webinar was scheduled for December 18, 2020 to discuss the formulation of NPCC 2021 Corporate Goals, to be informed by the NPCC Working Draft Strategic Plan 2021 – 2024 anticipated to be available following the December 2, 2020 NPCC Board meeting.

**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**  
February 24, 2021

**Location**  
[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.

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.

# **Annexe D**

## **Allégations de dérogation au Code de conduite**



## **Allégations de dérogations au Code de conduite du Coordonnateur**

Le Coordonnateur avise la Régie que les 4 et 23 février 2020, ainsi que le 6 mars 2020, des allégations de dérogations au Code de conduite du Coordonnateur (CCCF) ont été signalées à la section plainte sur le site internet du Coordonnateur. Ces allégations étaient liées à l'article 4.7 du CCCF :

*Le Personnel ne doit pas divulguer à un employé d'un Utilisateur du réseau, à un employé d'une autre direction du Transporteur ou à un employé d'une Entité affiliée du Transporteur des renseignements accordant un Traitement préférentiel.*

Plus précisément, les allégations étaient à l'effet qu'il y aurait eu un manque de concordance quant aux dates de retour des équipements de transport, lesquelles informations doivent être publiées simultanément à tous les utilisateurs du réseau de Transport.

Un groupe de travail a conséquemment été mis en place et le Coordonnateur a mené une enquête en vertu de l'article 6.1 du CCCF, qui stipule ce qui suit :

*Quiconque a connaissance d'un fait ou d'une situation où un membre du Personnel a agi de façon contraire au présent Code de conduite doit en aviser, dans les cinq (5) jours ouvrables de cette constatation, le Directeur. Toute dénonciation de bonne foi sera enquêtée promptement par le Directeur de façon impartiale, juste et confidentielle.*

Les conclusions de l'enquête reliée aux plaintes ci-haut mentionnées sont à l'effet qu'aucun traitement préférentiel auprès d'un employé d'une entité affiliée du Transporteur n'a eu lieu dans le cadre des situations dénoncées.

Le Coordonnateur recommande toutefois le maintien du groupe de travail ayant déjà été créé, et ce, afin d'assurer la mise place des mesures correctives recommandées à la lumière de l'enquête.