# MINUTES OF THE REGULAR JOINT MEETING
OF THE
CYBER & PHYSICAL SECURITY COMMITTEE
August 7, 2018

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Minutes of the regular joint meeting of the New York Power Authority and Canal Corporation’s Cyber and Physical Security Committee held at the Authority’s offices at 123 Main Street, White Plains, New York at approximately 9:20 a.m.

Members of the Cyber & Physical Security Committee present were:

Michael Balboni - Chairman
John R. Koelmel
Eugene L. Nicandri
Tracy B. McKibben
Dennis G. Trainor

Also in attendance were:

Anthony Picente, Jr. Trustee / Board Member
Gil Quiniones President and Chief Executive Officer
Justin Driscoll Executive Vice President and General Counsel
Joseph Kessler Executive Vice President and Chief Operating Officer
Randy Crissman Senior Reliability and Resilience Specialist - Operations
Kenneth Carnes Chief Information Security Officer
Karen Delince Vice President and Corporate Secretary
Thomas Spencer Senior Director of Enterprise Risk and Corporate Insurance
Lawrence Mallory Director - Physical Infrastructure Security
Lorna Johnson Senior Associate Corporate Secretary
Sheila Quatrocci Associate Corporate Secretary

Chairman Balboni presided over the meeting. Corporate Secretary Delince kept the Minutes.
Introduction

Member John Koelmel said the Committee Chair, Michael Balboni, asked him to Chair the meeting until his arrival. He welcomed the committee members, Eugene Nicandri, Tracy McKibben and Dennis Trainor and the Authority’s senior staff to the meeting. He said that the meeting had been duly noticed as required by the Open Meetings Law and called the meeting to order pursuant to Section B(4) of the Cyber and Physical Security Committee Charter.
1. **Adoption of the August 7, 2018 Proposed Meeting Agenda**

   Upon motion made by member Dennis Trainor and seconded by member Tracy McKibben, the agenda for the meeting was adopted.

   Committee Chair, Michael Balboni joined the meeting.
2. **Motion to Conduct an Executive Session**

   *I move that the Committee conduct an executive session pursuant to the Public Officers Law of the State of New York §105 to discuss matters regarding public safety and security.* Upon motion made by member Dennis Trainor and seconded by member Tracy McKibben, an Executive Session was held.
3. **Motion to Resume Meeting in Open Session**

   *I move to resume the meeting in Open Session.* Upon motion made by member John Koelmel and seconded by member Tracy McKibben, the meeting resumed in Open Session.

   Chairman Balboni said no votes were taken during the Executive Session.
4. CONSENT AGENDA

Upon motion made by member Tracy McKibben and seconded by member John Koelmel, the Consent Agenda was adopted.
a. NYPA Matters:

   i. Adoption of the Meeting Minutes of January 30, 2018

      Upon motion made and seconded the Minutes of the meeting held on January 30, 2018 was unanimously adopted.
b. Canal Matters:

i. Adoption of the Meeting Minutes of January 30, 2018

Upon motion made and seconded the Minutes of the meeting held on January 30, 2018 was unanimously adopted.
5. DISCUSSION AGENDA

a. State of the Industry

Mr. Kenneth Carnes, Vice President and Chief Information Security Officer and Mr. Lawrence Mallory, Director of Physical Infrastructure Security provided an overview of the security posture for the industry and for NYPA (Exhibit “5a-A”).

Threat Monitoring and Analysis

At the end of July, the National Cybersecurity and Communications Integration Center, (“NCCIC”), released the awareness brief on the Russian activity against critical infrastructure. That information was released, in part, earlier in the year. The critical infrastructure in the electric sector is targeted worldwide; this is why the supply chain remains a key focus area for NYPA in its increased security posture.

With more sophisticated networks and defense capabilities, NYPA will continue to monitor and perform any risk mitigations to implement and ensure the security of its systems and operational resilience.

The North American Electric Reliability Corporation (“NERC”) recently released updates to increase reporting on cyber-attacks or attempted compromise on any of NYPA’s protected systems within the NERC scope. When those regulations are processed NYPA will address them accordingly.

NYPA is continuing to review new technologies for any new risks that potentially will come into scope. NYPA is working with partners such as the National Terrorism Advisory System in order to make sure that NYPA’s controls are appropriate.

NYPA is also leveraging new information, e.g. the attack which disrupted the operations of the Metcalf substation and impacted network operations, system operations, and physical security.

NYPA’s iSOC could also be used as an internal fusion center where the Authority could monitor, both procedurally and informally, physical security, cyber security, asset health, and Operations Technology. To that end, if the Authority were subject to a Metcalf-style attack where there was a simultaneous attack on phone lines, transformers, and physical security systems, the Authority would have a better chance of quickly diagnosing the incident in real time by the nature of the policies and procedures implemented, and by the fact that the groups doing the monitoring are physically next to each other.

Committee Chair Michael Balboni added that NYPA is among the best of class in many of the cyber and physical security elements of the operation. Member John Koelmel said that, in combination with the
partners, NYPA can leverage the collaboration between cyber and physical security; therefore, the Authority’s continuing focus and efforts are appreciated.
6. **Next Meeting**

Chairman Balboni said that the next regular meeting of the Cyber and Physical Security Committee is to be determined.
Closing

Upon motion made by member Tracy McKibben and seconded by member John Koelmel, the meeting was adjourned by Chairman Balboni at approximately 10:06 a.m.

Karen Delince
Karen Delince
Corporate Secretary
EXHIBITS

For

August 7, 2018

Meeting Minutes
State of the Industry

Larry Mallory
Directory Physical Infrastructure Security
Kenneth Carnes
VP & Chief Information Security Officer
Threat Monitoring and Analysis

• State of the Industry

• Physical & Cyber Threat Persistent

• Evaluation
  • Trusted Partners
  • External Incidents

• Technological Enhancements
  • Risk Introduction

• National Terrorism Advisory System Bulletin (issued May 9, 2018)

• Information Sharing
  • E-ISAC Efforts
Situational Awareness

- Metcalf Incident
  - Data Silos
- Internal Information Sharing

CIP-014 - Metcalf

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<th>Event Comparison</th>
<th>April 16, 2013</th>
<th>August 27, 2014</th>
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<tr>
<td>Physical Evidence of pre-event surveillance</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Major Damage to Substation Equipment (i.e. Transformers)</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Security System Alarm Triggered</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Fence Cut</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Unauthorized Entry into Substation</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Materials Stolen</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>24x7 Security Personnel Posted</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>FBI Investigative Lead</td>
<td>Yes</td>
<td>No</td>
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State in the Dark
A look at the April 16 attack on MEC's Metcalf Transmission Substation

- 100 ft. - 100 ft. back of substation in the dark
- 200 ft. - 100 ft. back of substation in the dark
- 300 ft. - 100 ft. back of substation in the dark
- 500 ft. - 100 ft. back of substation in the dark
- 1000 ft. - 100 ft. back of substation in the dark

April 16, 2013 – Clear intent to at, a minimum, disrupt the operation of the Metcalf Substation. > $15 Million Damage
Aug 27, 2014 – Intent seems to be theft. No Damage to Substation equipment.

- Procedural Relationships
- Informal Daily Relationships