

Minutes of the Meeting

Q1 2022 RSSC: Meeting #54

Meeting date: 04/14/2022

Meeting time: 09:30 a.m.

Meeting location: IESO Hosted MS Teams

Chair/Sponsor: Sean Lagan/Darren Matsugu

Scribe: Harish Vijay Kumar

Invitees	Representing	Attendance Status Attended, Regrets, Teleconference
Mike Beuthling	Hydro One	Teleconference - MS Teams
Amelie Morissette	Evolugen	Teleconference - MS Teams
David Kiguel	Independent	Teleconference - MS Teams
Desderius Ngunangwa	Bruce Power	Teleconference - MS Teams
Hassan Vahed Kalankesh	Hydro One	Teleconference - MS Teams
Helen Lainis	IESO	Teleconference - MS Teams
Kurtis Chong	IESO	Teleconference - MS Teams
Kyle Smyth	Northland Power	Teleconference - MS Teams
Shahid Khan	Northland Power	Teleconference - MS Teams
Paul Malozewski	Hydro One	Teleconference - MS Teams
Sheraz Majid	Hydro One	Teleconference - MS Teams
Chris Muoio	IESO	Teleconference - MS Teams
Andrew Burmaster	Evolugen	Teleconference - MS Teams
Catherine Ethier	OEB	Teleconference - MS Teams
Sylvian Moore	Boralex	Teleconference - MS Teams

Invitees	Representing	Attendance Status Attended, Regrets, Teleconference
Mike Cooke	OPG	Teleconference - MS Teams
Dave Kwan	OPG	Teleconference - MS Teams
Constantin Chitescu	OPG	Teleconference - MS Teams
Kevin Wozniak	Hydro One	Teleconference - MS Teams
Norm Dang	IESO	Teleconference - MS Teams
Abbas Munir	Bruce Power	Teleconference - MS Teams
Tabasum Bandey	Bruce Power	Teleconference - MS Teams
Fan Wang	Kinectrics	Teleconference - MS Teams
Paul Barrette	Northland Power	Teleconference - MS Teams
Mernaz Malozewski	Guidehouse	Teleconference - MS Teams
Ahmad Khan	Northland Power	Teleconference - MS Teams
Mike Zajmalowski	Northland Power	Teleconference - MS Teams
Nayab Saeed	OPG	Teleconference - MS Teams
Aditya Menon	Hydro One	Teleconference - MS Teams
Blake Huddleston	Engie – North America	Teleconference - MS Teams
Tam Morgan	Transalta	Teleconference - MS Teams
Zaman Hameed	Transcanada	Teleconference - MS Teams
Hassib El murdea	OPG	Teleconference - MS Teams
Karen Demos	FPL	Teleconference - MS Teams
Darren Matsugu	IESO	Teleconference - MS Teams
Cristian Dragnea	IESO	Teleconference - MS Teams
David Barrett	IESO	Teleconference - MS Teams

Agenda Item 1: Welcome and Introductions

Sean Lagan kicked off the 54th RSSC meeting at 9:30 AM welcoming participants. Sean thanked all the participants for their continued engagement on the online version of RSSC. He gave a brief introduction of Harish Vijay Kumar who had recently joined the Compliance Assurance team.

Agenda Item 2: Administrative Items

The agenda for 54th RSSC meeting was reviewed by Sean Lagan. Dave Kwan and Paul Malozewski moved to adopt the agenda and the agenda was adopted as constructed.

The minutes of the previous RSSC meeting (53rd) were reviewed. Some minor changes were suggested by market participants and were incorporated into the draft. The meeting minutes were accepted as drafted.

Sean Lagan provided an update on the open action items (listed below).

Action Item Summary

ID	Date	Action	Status	Comments
Q1-2021-02	March 11, 2021	During the Q1 meeting, Rob Antonishen highlighted the NERC Implimentation Guidance on CIP-008-6, which he indicated would be of value to present at the Q2 meeting with MP having their CIP Security members present for questions	Closed	Norm Dang was scheduled to present an update on CIP-008-06 at the current (54 th) RSSC meeting.

Agenda Item 3: Review of NERC Implementation Guidance on CIP-008-6

(Norm Dang) provided updates on the review of NERC Implementation Guidance on CIP-008-6.

As a result of FERC Order 848, two major modifications were made to CIP-008, which are listed below;

- (1) Mandatory reporting of cyber security incidents to include compromises, or attempts to compromise a registered entity's Electronic Security Perimeter (ESP) or associated Electronic Access Control or Monitoring Systems (EACMS) optimizing the grid services and reliability.
- (2) Updates to Definitions of Cyber Security Incident and Reportable Cyber Security Incident.

A criteria was developed as a part of the implementation guide for requirement 1.2 of CIP-008-06 to evaluate and define attempt of compromise. This Evaluation process and criteria is of a traffic stop model based on consequence of risk. Draft 2 of these standards were rejected by NERC as the criteria for endorsement was changed by the ERO.

Amelie from Evolgen requested for a clarification on the applicability of CIP -008-6 standard for High and Medium impact facilities. Norm confirmed and referred to CIP-003-01 for low impact facilities.

Sean enquired if the Cybersecurity Steering Committee (CSSC) members are still working on this standard. Norm mentioned that some members of the team have moved on from the committee taking various other responsibilities.

Dave Kwan from OPG requested clarification for the re-submission window for the RTO/ISO. CIP-008-6 standard, Draft 2 of the Implementation Guidance (submitted by the SDT) was rejected by ERO as it was too lengthy. The criteria for creation of Implementation Guidance has now been changed by NERC. A stripped down version of this Implementation Guidance (under 10 pages in length), specifically for CIP-008-6 Requirement R.1.2.1 "*criteria to evaluate and define attempts to compromise*" will be discussed by CSSC.

Agenda Item 4: CIP standards Development Update

(Norm Dang) delivered the CIP Standards Development Update

Active NERC SDTs

Project 2016-02 CIP Mods SDT - made changes to CIP-002 and CIP-013.

Posted draft 3 of the CIP V5 VTAG issues. Ballot was extended till April 11th,2022.

Project 2020-04 CIP-012 Mods SDT - proposed changes to CIP-012.

Failed to fulfil FERC order 866 – availability of communication links for real-time monitoring and assessment. Ballot closed on Jan 22nd,2022.

Project 2020-03 SDT Supply Chain Low Impact SDT

Posted ballot 2 of proposed changes associated with remote vendor access at Low Impact BES Cyber Systems. Ballot for draft closed on April 15th,2022.

Project 2021-03 SDT TOCC – made changes to CIP-002

Changes to address Transmission Owner control centres that performs function of a Transmission Operator. NERC currently has studies underway to determine the impact of any proposed TOCC changes.

New CIP Requirements

CIP-012-1 changes to address encryption of data communications for real-time monitoring and real-time assessment data, will come into effect July 1, 2022.

CIP-013-2, CIP-005-7 and CIP-010-4 standards to address supply chain requirements for Physical access control systems (PACS), Electronic access control, and monitoring systems (EACMS), come into effect Oct 1, 2022.

CIP-004-7 and CIP-011-3 BES cybersecurity information (BCSI) in the cloud changes, have been submitted to FERC for approval (Sept 15, 2021). Likely effective date is mid-late 2024 (24 month implementation time)

Agenda Item 5: O&P Standards Development

(Helen Lainis) delivered the O&P Standards Development update.

Helen provided an update on the Extreme cold weather grid operation, preparedness and coordination standards, the formal comment period for Standards Authorisation Request (SAR) ended on December 21, 2021. Helen explained the nine recommendations for the Extreme cold weather standards.

David Kwan from OPG enquired if the the standards are already drafted for the Extreme cold weather project and Helen mentioned that she would check and respond back to David.

Project 2020-05, FAC 001-4 and FAC 002-4, Facility interconnection requirements and facility interconnection studies

- Formal comment period and initial ballots concluded on January 31st, 2022.
- Revisions to FAC 001-3 and FAC 002-3. Replace text "materially modification" with "qualified change"
- PC (IESO) is responsible for making determination of what is considered to be a "qualified change" to a facility.

Project 2021-02, VAR 002-4, Generator operation for maintaining network voltage schedules

- Informal comment period for SAR concluded April 6, 2022
- To provide clarity on requirement R3. Does the GOP have to provide notification to the TOP upon status change of voltage controlling device on an individual generating unit of a dispersed power resource. i.e., if a single inverter goes offline in a solar photo-voltaic (PV) facility.

Project 2021-08, FAC 008-5, Facility ratings

- Formal comment period for SAR concluded January 27, 2022.
- Clarifies the term "jointlyowned" and what information has to be shared with neighbouring entities.
- Permit inclusion of non-electrical equipment in the determination of Generator Owner.

Project 2022-02, TPL 001-5.1 and MOD 02-1, Transmission planning performance requirements data for Power system modelling and analysis

- Comment period for SARs concluded on March 01, 2022.
- TPL-001-5 requirements – revise requirement to provide clarity and consistency.
 - o For how BPS-connected inverter-based resources are considered, modeled and studied in planning assessments.
 - o Expand the scope of requirements when considering the performance of DERs to ensure the accuracy of Transmission system planning assessments.
- MOD-032-1 – Revise to address gaps in data collection for the purposes of modeling aggregate levels of DERs in planning assessments.

Agenda Item 6: NERC Standards Implementation Roadmap

(Sean Lagan) delivered the NERC Standards Implementation Roadmap

The Roadmap is posted online for participants to review. Few market participants mentioned that the Roadmap on the IESO's website is not the same with the one shared on the meeting. Sean mentioned that the version posted on the IESO's website will be updated.

Agenda Item 7: MACD Update (Self Certifications, compliance assessments)

(Cristian Dragnea) delivered the MACD Update on Self-Certifications

MACD has been focusing on unfinished compliance assessments this year and will continue the effort to complete the pending assessments. MACD will not be issuing self-certification notices before June. MACD will assess whether any self-certification requests will be sent out for the second half of the year.

MACD will continue to have spot checks and unscheduled audits if there is a reliability risk to the IESO controlled grid. Based on investigation case loads, there may be more engagements with the market participants in the future.

Amiele from Evolgen and Abbas Munir from Bruce power enquired about PRC-004's quarterly update on Protection mis-operation reporting and self certification. Cristian mentioned that there is no requirement for self certification on Q1 and Q2 of 2022 for this standard as mentioned on the Compliance monitoring plan (CMP) for 2022.

Tam Morgan from Transalta inquired about the Compliance investigations process, to which Cristian provided a brief description. He mentioned that MACD will contact market participants; provide a notice to open an investigation; request information and indicate further steps depending on the path of the investigation.

Agenda Item 8: OSRP Update

(David Barrett) Delivered the OPSRP Update

The latest version of the Ontario Power System Restoration Plan (OPSRP) was update on December 1, 2021 and posted on the IESO website. The latest version has incorporated the electric storage facilities and their market rules. None of the other changes in the document were in regards to NERC standards.

The quarterly system restoration workshops held by the IESO will continue to take place online. Further, he indicated that NPCC was conducting its triannual review of Directory #8 – System Restoration, and encouraged Market participants to check the updates posted on NPCC's website by Q2.

Agenda Item 9: Incoming revisions to UFLS Program

(Chris Muoio) Delivered the incoming revisions to the UFLS program

Chris gave a brief overview of the UFLS program enhancements, focussing on the following: simplified UFLS data collection; clarified market participant (MP) obligations; decreased compliance burden; and the IESO's response to NPCC's concerns.

He also mentioned the challenges and the impacts of the current program, purpose of the enhancements and the proposed enhancements.

The 2022 schedule for the UFLS program includes:

- Stakeholder engagement webinar: April 21, 2022;
- Baseline comment period end date: April 29, 2022;
- UFLS survey notification issue date: June 30, 2022;
- UFLS survey date: July 19, 2022; and
- Survey due date: September 16, 2022.

Certain entities will not have to fill the Automatic Under Frequency Load Shedding Requirements form (From 1719) and some entities may have to fill the new Manual Load Shedding Plans form (From 113) based on their UFLS provider.

Constantin Chitescu from OPG requested clarification on the overlap between Manual load shed and Rotational load shedding. He also suggested that implementing a dynamic UFLS program will be helpful. IESO UFLS team mentioned that both Rotational load shedding and manual load shed are one and the same and this is the data gathering phase and any actions will be a result of analysing data received from UFLS participants.

Agenda Item 10: Lessons Learned and NERC Alerts

(Harish Vijay Kumar) delivered the Lessons Learned and Alerts published by NERC since the last RSSC meeting. NERC posted one lessons learned and two Alerts since the last RSSC meeting.

Lessons learned

- Managing under frequency load shedding obligations and service to critical loads during an energy emergency.

NERC Alerts

- Apache software foundation Log4j, aka Log4shell vulnerability.
- Preparation for Potential Russian Cyber Activity against Industry from Russia-linked Actors - Level II.

Agenda Item 11: Closing Remarks

Sean Lagan invited MPs to share topics of their interest, which they would like to discuss in the next RSSC meeting within next month. David Kwan from OPG enquired if there is any interest on conducting in-person RSSC meetings. Sean mentioned that IESO would want to move in that direction but for the next meeting it would probably be through MS teams.

Adjournment

The 2022 meeting schedule was provided. IESO to issue MS Teams invitations.

Meeting 2 - August 25, 2022 (Teams)

Meeting 3 - December 8, 2022 (Teams?)

The meeting adjourned at 11:54 AM.

Action Items at Completion of 2022 RSSC Q1 Meeting

ID	Date	Asignee	Action	Status	Comments
Q1-2022-01	April 14, 2022	Sean Lagan	Update the latest version of the document on the IESO website.	Open	
Q1-2022-02	April 14, 2022	Helen Lainis	Update status of the standards under Cold weather project	Open	