

# Minutes of the Meeting

## Q2 2023 RSSC: Meeting #58

Meeting date: 05/16/2023  
Meeting time: 09:30 a.m.  
Meeting location: IESO Adelaide / MS Teams

Chair/Sponsor: Scott Berry/Devon Huber  
Scribe: Harish Vijay Kumar

<b>Invitees</b>	<b>Representing</b>	<b>Attendance Status</b> <b>Attended, Regrets, Teleconference</b>
Hassan Vahed Kalankesh	Hydro One	Teleconference - MS Teams
Nicola Presutti	IESO	Teleconference - MS Teams
Mike Zajmalowski	Northland Power	Teleconference - MS Teams
Blake Huddleston	Engie	Teleconference - MS Teams
Amelie Morissette	Evolugen	Teleconference - MS Teams
Keven Van Velzen	BBA	Teleconference - MS Teams
Helen Lainis	IESO	Teleconference - MS Teams
Monica Adam	IESO	Teleconference - MS Teams
Constantin Chitescu	OPG	IESO - Adelaide
Kurtis Chong	IESO	IESO - Adelaide
Joel Charlebois	AESI	Teleconference - MS Teams
Jessi Rocca	IESO	IESO - Adelaide
Ijad Dewan	Hydro One	Teleconference - MS Teams
Emma Halilovic	IESO	IESO - Adelaide

<b>Invitees</b>	<b>Representing</b>	<b>Attendance Status Attended, Regrets, Teleconference</b>
Aditya Menon	IESO	IESO - Adeliade
Desderius Ngunangwa	Bruce Power	Teleconference - MS Teams
Michael Takla	OPG	IESO - Adeliade
Catherine Ethier	OEB	Teleconference - MS Teams
Kamyar Ghaderi	IESO	IESO - Adeliade
Ola Murxmur	Hydro One	Teleconference - MS Teams
Norm Dang	IESO	Teleconference - MS Teams
Abbas Munir	Bruce Power	IESO - Adeliade
Ashley Scheelar	Transalta	Teleconference - MS Teams
Tobi Ayagi	OPG	Teleconference - MS Teams
Mark Townsend	Hydro One	Teleconference - MS Teams
Colin Elwood	Bruce Power	Teleconference - MS Teams
Bendong Sun	Bruce Power	IESO - Adeliade
Mernaz Malozewski	Guidehouse	IESO - Adeliade
David Dunn	IESO	IESO - Adeliade
Hassib El murdea	OPG	Teleconference - MS Teams
Kevin Samuel	FPL	Teleconference - MS Teams
John Nguyen	IESO	IESO - Adeliade
Tahmilur Tanim	IESO	IESO - Adeliade
David Kwan	OPG	IESO - Adeliade
Dhvani Shah	Hydro One	Teleconference - MS Teams
Kyle Smyth	Northland Power	Teleconference - MS Teams

<b>Invitees</b>	<b>Representing</b>	<b>Attendance Status Attended, Regrets, Teleconference</b>
Steven Pichette	Validus Power Corp	Teleconference - MS Teams
Devon Huber	IESO	Teleconference - MS Teams
Keven Van Velzen	BBA	Teleconference - MS Teams
Alex Zbarcea	Hydro One	Teleconference - MS Teams
Sylvain Moore	Boralex	Teleconference - MS Teams
Prithvi (Shawn) Nandy	Transalta	Teleconference - MS Teams
Sanju Samuel	Transalta	Teleconference - MS Teams

## Agenda Item 1: Welcome and Introductions

Scott Berry kicked off the 58<sup>th</sup> RSSC meeting at 9:35 AM welcoming participants. Scott requested the RSSC participants at Adelaide to introduce themselves. Scott then shared a safety message about motorcycle and vehicular safety during poor weather conditions.

## Agenda Item 2: Administrative Items

The agenda for the 58<sup>th</sup> RSSC meeting was reviewed by Scott Berry. Saad's presentation was moved up in the agenda due to scheduling constraints. Jesse moved to adopt the agenda and the agenda was adopted as constructed.

The minutes of the previous RSSC meeting (57<sup>th</sup>) were reviewed. Constantine and Jesse moved to adopt the meeting minutes; these were adopted as drafted.

Scott also mentioned that action items from the previous meeting will be discussed during the course of this RSSC meeting.

## Agenda Item 3: OPSRP Update

### Saad Ansari delivered the OPSRP Update

Saad mentioned that IESO has completed 2 in-person OPSRP workshops to date for this year. He explained that workshops are an opportunity for the IESO and restoration participants to collaboratively discuss power system restoration. They are designed to provide restoration participants with a review of the Ontario Power System Restoration Plan (OPSRP) and the roles of the IESO and restoration participants in maintaining system reliability during normal conditions, abnormal conditions and when restoring the power system following large-scale blackouts.

The workshop hosted on March 22 at Ajax had 130 attendees from 21 organizations and the workshop hosted on June 7 at Kincardine had 50 participants from 12 organizations. There is one workshop in September/October scheduled to be held in Sault Ste. Marie. Finally, there will be a virtual session in November. He also mentioned that the 2024 schedule is TBD.

## 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.

- Issue of Draft 5 of CIP-005-8 and CIP-010-5 TBD.

Project 2020-04 CIP-012-2 Mods SDT - proposed changes to CIP-012.

- new additional SDT members replaced existing members that have retired. Next draft to be issued by end of June.

Project 2021-03 SDT TOCC – made changes to CIP-002/CIP-014

- Changes to address TO control centers – splitting into 2 separate SDTs.

Project 2022-05 – made changes to CIP-008, Reporting threshold

- Changes to CIP-008-6, SDT has problems defining “attempts to compromise” for cyber security incidents.

Project 2023-03 - Internal Network Security Monitoring

- SAR issued for High and Medium impact BES Cyber Systems with External Routable Connectivity.

Project 2023-04 - Modifications to CIP-003 SAR

- issued to add controls to authenticate remote users, protect the authentication information in transit, and detect malicious communications assets containing low impact BES Cyber Systems with external routable connectivity.

#### **New CIP Requirements**

CIP-004-7 and CIP-011-3 – BES cybersecurity information (BCSI) in the cloud: New versions come into effect on Jan 1, 2024 (Note – early adoption is allowed to take advantage of these changes)

CIP-003-9 Vendor electronic remote access controls for Low Impact BES Cyber systems(BCS) comes into effect April 1, 2026

#### **Other Items**

FERC Order RD23-2-000 issued on April 14, 2023 with the results of a study evaluating the effectiveness of Reliability Standard CIP-014-3 in response to the recent physical attacks on

transformer stations. NERC will work with FERC staff to hold a technical conference and evaluate whether additional substation configurations should be included in the existing criteria. No evidence that expansion of the criteria would identify additional substations as critical. Below items will be discussed in the technical conference.

1. Minimum level of protections, risks to be mitigated, and industry resources necessary to meet such minimum requirements.
2. Expand the use of planning studies to include cyber security criteria, as part of their current TPL-001 long-term planning studies.
3. Operational Planning Assessments to include loss of assets (transmission or generation) from coordinated attacks.
4. Enhance TP and TO requirements to ensure spare equipment pool strategies provide sufficient wide area coverage.
5. RCs develop and train to readiness scenarios reflecting a physical security incident with TOs, TOPs, GOs, and GOPs.

Aditya from Hydro One enquired about CIP-008 and what was the definition proposed by the drafting team. Norm mentioned that the attempt to compromise definition was outside ESP, which was outside the FERC purview, and CISA is developing regulations on "attempts to compromise".

Kurtis asked if the drafting team has developed a guidance document on this and Norm mentioned that there were 3 attempts by the SDT to the ERO but all 3 were unsuccessful.

Ashley enquired if there is a possibility to add CIP contacts to the IESO portal, Norm mentioned that he will take a look at that and report back.

Dave Kwan enquired about the implementation dates for CIP-003-9 and requested clarification about the dates if they are US implementation dates or Ontario dates. Norm mentioned that OEB review period is 120 days and if there are no issues, the US implementation dates will be the same as the Ontario implementation dates.

An interest was shown by all the meeting participants to reinstate CSSC which will be overseen by RSSC. Norm mentioned that he will discuss this with Nicola and provide feedback at the next RSSC.

## Agenda Item 5: O&P Standards Development

**Helen Lainis delivered the O&P Standards Development update.**

**Project 2021-07, Extreme Cold weather grid operations, preparedness and coordination standards – EOP-011-3 and EOP-012-1**

Draft 1 balloting on April 23rd failed for:

- EOP-011-4 – Emergency Operations
- TOP-002-5 – Operations Planning

Comment period and balloting due July 20, 2023 for:

- EOP-012-2 – Extreme Cold Weather Preparedness and Operations - Implementation Plan

### **EOP-012-2 Proposed Revisions Include:**

- New defined term, Generator Cold Weather Constraint, which includes criteria on what qualifies as a permissible constraint:
  - o **Technical Constraint** – A technical constraint exists when there is no known technical solution for addressing an issue, or implementation of selected freeze protection measure(s) requires application of new technologies or existing technologies in new applications that would facilitate operations outside of the existing equipment capability.
  - o **Commercial Constraint** - A commercial constraint exists when implementation of selected freeze protection measure(s) are uneconomical to the extent that they would result in the generating unit not operating or not being put into service at the time of the evaluation.
  - o **Operational Constraint** – An operational constraint exists when implementation of selected freeze protection measure(s) would cause the generating unit to limit its operations in order to protect either the reliability of the BES, the generating unit itself, the surrounding environment, or personnel.
- Adding new R8 to require the GO to provide the constraint declaration to the Balancing Authority and update the generating unit’s data specification regarding operational limitations to the generator unit’s capability and availability under R1.
- Refined definition of Generator Cold Weather Critical Components:  
Fixed Fuel Supply Component:
  - Non-mobile equipment that supports the reliable delivery of fuel to the generating unit and under the control of the Generator Owner at a plant site.
  - Gaseous, liquid, or solid fuel handling components that are installed on site as fixed parts of the fuel delivery system that are under the Generator Owner’s control are included.
  - Mobile equipment such as trains, bulldozers, or other equipment that are not fixed in one location are excluded.
- Added sub-requirement 6.4 (through the CAP process) for Generator Owners to update the list of Generator Cold Weather Critical Components in the cold weather preparedness plan in R4.
- Clarified existing language in EOP-012-1 R3.5.2 and moved it to R1.2.2 to account for the effects of precipitation and the cooling effects of wind when providing the generating unit minimum temperature.
- Requirements for generator cold weather freeze protection measures would continue to apply only to generation that is relied upon during freezing conditions; however, those limitations

are identified in those specific requirements, rather than in the applicability sections of the standard.

### **Project 2017 -01 - BAL-003 – 3 – Frequency Response and Frequency Bias Setting -Phase II**

Comment period and ballot for draft 2 concluded June 1, 2023 – Ballot Failed

Below are the recommended changes to the standard.

- Removal of proposed Requirement R5 from Draft 1 which required inclusion of explicit consideration of frequency responsive reserves in the Balancing Authority's Operating Plans. Criteria for extreme cold weather operating process is mentioned below
- Removal of proposed Requirement R7 from Draft 1 which required Generator Owner to ensure minimum settings for the Governor droop and dead-band or for notification to the Balancing Authority if the settings were not within the minimum settings.
- Allows for governor exemptions

### **Project 2020-06 , MOD-026-2 – Verification of Dynamic Models and Data for BES Connected Facilities**

Comment period and ballot for draft 3 is due July 21, 2023

Below are the recommended changes to the standard.

- Clarification of models associated with Facilities in R1.1, R1.2
- Trimmed list of Protection Systems of R2.3
- Merged footnotes of R6.1, R6.3, and R6.4 into requirement language
- Footnote describing large signal disturbance added to R6.2
- Reorganized R7 to similar structure of R8/R9
- Added footnote to R7 describing which in-service equipment changes are included
- All mentions of timeframes moved to Attachment 1 (R8/R9)
- Added dispute resolution phrase to R9
- Implementation Plan: effective date increase from 1 to 2 years (R1, R8, R9), 5 years total to implement R2-R6, R7 (R7 timing aligned with R2-R6)
- R6 exemption date: commissioning date before January 1, 2023

### **Project 2021-01, Modifications to MOD-025-3 – Verification of Real and Reactive Power Capability for BES Facilities and PRC-019-3 – Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls and Protection**

Comment period and ballot for draft 2 was due June 8, 2023

Below are the recommended changes to the standard.

- Added verification date language to R1/R2
- Aligned R1.3.3 and R2.3.3 language with Attachment 1
- Updated language to R3 and R4 based on comments
- Updated Attachment 1-3 based on comments
- Revised Implementation Plan to allow for 66 month periodicity to carry forward for existing Facilities

### **Project 2021-06, Modifications to IRO-010-4 and TOP-003-5**

Comment period and ballot for draft 2 is due June 20, 2023

Below are the recommended changes to the standard.

- Standards Efficiency Review Phase 2: Operational Data Exchange Simplification
- Proposed IRO-010-5 and TOP-003-6 are substantively identical
- Dispute resolution process included in data specification
- Clarifies protocols for responding to data requests
- Deleted the data third party intermediary language from standards.
- Combined and re organized sub requirements in R1 R3
- Modified VRFs and VSLs in accordance to NERC grading

### **Project 2022-02, Modifications to TPL-001-5.1 Transmission Planning System Performance Requirements and MOD-032-1 Data for Power System Modeling and Analysis**

Comment period and ballot for draft 1 of MOD-032-2 is due June 29, 2023.

Below are the recommended changes to the standard.

- Load-Serving Entity (LSE) is replaced with Distribution Provider (DP) because of the removal of LSEs from the NERC registry criteria.
- Items in Attachment 1 that were previously required to be provided by the LSE are now required to be provided by the DP.

### **Project 2019-04, Modifications to PRC-005-6 – Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance**

Comment period and ballot for draft 1 of PRC-005-7 is due July 10, 2023

Changes are intended to clarify and expand applicability of protective system maintenance requirements:

- Clarification that BES protective functions enabled within analog/digital AVRs, excitation systems, and BES protective functions enabled within control systems that respond to



measured electrical quantities and trip BES Elements either directly or indirectly or via lockout or auxiliary tripping relays.

- Included new dc supplies (e.g., lithium ion, flow) for Protection Systems.
- Included entities registered as UFLS-only Distribution Providers (DPs) in the Applicability section
- Modified the definition of Protection System

### **Project 2021-02, Modifications to VAR-002-4.1 - Generator Operation for Maintaining Network Voltage Schedules**

Comment period and ballot for draft 2 of VAR-002-5 is due June 23, 2023

Below are the recommended changes to the standard.

- Replaced "generator or dispersed power producing resource" with applicable Facility
- Added prompt notification to TOP if no other method of control is available
- Added footnote clarifying that for an aggregate generating plant, the volt/VAR controller includes the voltage & reactive power control system controlling and coordinating plant voltage
- Replaced "mutually-agreeable format" with mutually agreeable criteria"
- Clarified reactive capability change that "degrades or restores from degradation"

## Agenda Item 6: NERC Standards Implementation Roadmap

### **Scott Berry delivered the NERC Standards Implementation Roadmap**

Scott gave a brief overview of the updated standards roadmap. He indicated that the AODA complaint version of the roadmap will be posted online for the participants after the meeting.

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

### **Monica Adams delivered the MACD Update.**

Monica spoke about the 2023 Compliance Monitoring Plan (CMP) update. The majority of the self-certification requests were issued in March-April and submissions were received in April-May.

She mentioned that self-certification submissions are under review and several requests for information are underway. A few CIP self certification requests will be released next month. Monica then mentioned about some good practices with self-certification evidence submission.

Monica also mentioned that MACD has embarked on a project whose aim is the disposition of enforcement matters and conclusion of all outstanding enforcement actions (i.e., possible non-compliance resulting from self-reports, self-certifications, audit etc.);

Throughout this year, MACD will contact market participants with outstanding enforcements matters to relay its decision on those matters.

## Agenda Item 8: ERT tool demonstration

Kamyar Ghaderi, David Dunn and Dave Kwan delivered the ERT tool demonstration

Kamyar provided information on the NERC ERT tool which provides consistency, transparency and clarity for evidence submission in the audit process. Having a standardized approach eliminates confusion and this tool also provides efficiency in data submission.

David Dunn then provided the tool overview. Dave Kwan then shared his experience with implementing the tool during OPG's evidence submission process.

## Agenda Item 9: Lessons Learned and NERC Alerts

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

### **Lessons learned**

- Combustion turbine anti-icing control strategy

### **NERC Alerts**

- Inverter based resource performance issue

## Agenda Item 10: Additional items

### **Protection misoperation**

Harish mentioned that IESO is looking to introduce new forms to collect data for protection misoperation.

The forms will be posted on the IESO's website before the November reporting deadline, and a new email address will be created to which these forms must be sent. More information on the forms will be shared on the next RSSC.

## Agenda Item 11: Closing Remarks

Scott Berry invited Market Participants to share within next month, topics of their interest which they would like to discuss at the next RSSC meeting.

## Adjournment

The IESO will issue MS Teams invitations for meeting #3 of 2023, which will be held on September 14th. This will be in a hybrid format.

The meeting adjourned at 11:39 AM.

## Action Items at Completion of 2022 RSSC Q2 Meeting

ID	Date	Asignee	Action	Status	Comments
Q1-2023-01	08/03/2023	Helen	Helen to provide EOP-011-4 implementation plan to Constantine.	Closed	Helen provided the information to Constantine
Q1-2023-02	08/03/2023	Scott	Discuss with Nikola about reintroducing the CIP-RSSC-subcommittee.	Closed	Norm gave an update regarding reintroducing CIP-RSSC-subcommittee
Q2-2023-01	16/05/2023	Norm	To check if CIP contacts can be added to IESO portal	Open	