



**MINUTES OF THE
FOURTH ELECTRICAL SUB-COUNCIL MEETING OF 2023**

DATE: October 16, 2023

TIME: 9:06 a.m. to 12:58 p.m.

LOCATION: Safety Codes Council Office

PRESENT: **Sub-Council Members**
Gerry Wiles, Chair
Scott Basinger, Vice Chair North
Brad Dougherty
Patrick Conway
Hussein Desouki
Gerry Doan
Tim Driscoll
Adam Ghani, Vice Chair South
Glenn Hedderick
Ken Hood
Nicolas Leblanc
Lori Martens
Clark Redden
Barry Voogd
Ed Knaggs

Safety Codes Council
Allison Karch, Jennifer Johnson

Alberta Municipal Affairs
Kevin Glubrecht, Morgan Pendray-Frame

REGRETS: Bert DeBruin

GUESTS: Jason Drenth, EUSC Liaison

RECORDER: Allison Karch

2024 MEETINGS: January 22, April 8, June 17, 2024

1. Meeting Opening

The Chair called the meeting to order at 9:06 a.m. A round table introduction was held and videoconference functionality was reviewed, and members were reminded that their primary duty is to act in the interest of safety in the built environment for the benefit of all Albertans.

1.1 Agenda Adoption

The agenda was amended as follows:

- Item 4.1. moved to round table and section 4 was renumbered accordingly.
- Vice Chair election added as item 2.4.

Hussein Desouki / Patrick Conway moved that the agenda be adopted, as amended; CARRIED

1.2 Adoption of the June 26, 2023 Minutes

Glenn Hedderick / Gerry Doan moved to adopt the minutes of the June 26, 2023 meeting, as circulated; CARRIED

2. Matters for Decision

2.1. Closed Session

Hussein Desouki / Glenn Hedderick moved to enter into closed session; CARRIED

Scott Basinger / Clark Redden moved to exit closed session; CARRIED

2.1.1. Nomination of David Myers, Mark Montgomery, Jamie Nimcan, or Kurt Bittner to represent Education and Training

Scott Basinger / Patrick Conway moved to recommend David Myers to the Board appointment of David to the Electrical Sub-Council to represent Education and Training for a term ending January 31, 2027, effective February 1, 2024; CARRIED

2.1.2. Nomination of Denny Smith to represent Major Municipalities - North

Scott Basinger / Hussein Desouki moved to recommend to the Board appointment of Denny Smith to the Electrical Sub-Council to represent Major Municipalities – North for a term ending January 31, 2027, effective February 1, 2024; CARRIED

2.2. Chair Election

Nicolas Leblanc was nominated as Chair and accepted the nomination. Three calls for nominations were made and no further nominations were received. **Nicolas Leblanc was appointed chair by acclamation.**

2.3. Matrix Review

Scott Basinger / Nicolas Leblanc moved to recommend no changes to the Electrical Sub-Council matrix; CARRIED

2.4. Vice Chair Election

Gerry Doan was nominated as Vice Chair and accepted the nomination. Three calls for nominations were made and no further nominations were received. **Gerry Doan was appointed vice chair by acclamation.**

It was noted that the liaison to BSC position will become vacant when Gerr Wiles’ term ends. **Lori Martens agreed to serve as liaison to BSC.**

3. Review Matters Arising/Action List

	Item	Action	Date Initiated	Responsible	Status/Update
1.	CE Code-072 Concrete Encasements	Consider drafting a Proposed Change to CE Code Part 1 UPDATE: Submittal completed. Item will be kept open for updates on the proposal from CSA. Currently under review by CSA. Tracking ID: C22.1.21 004	Feb. 6/17	Basinger	Still w CSA; no updates
2.	Colour Coding Code Change Request	Code change request was not approved for the 2024 code but the Section 4 subcommittee retained this item. CSA ballot info seems to show a conflicting interpretation of how OBY is being used. Adam Ghani, Bert DeBruin, Gerry Doan, and Ken Hood will review the ballot info to determine any potential next steps.	Dec 5/22	Ghani	Revisions have been made to address the CSA ballot comments and are currently being reviewed.
3.	Rule 26-602 re. New Installations with Second Dwellings	The code does not stipulate where the electrical panel has to be located. The proponent sent a code change request to CSA. Tracking ID: CSA 22.1.21:013	Feb 6/23	Chledowski / Redden	No update. May be discussed at EIAA; Clark Redden will bring updates.

4. Matters for Discussion

4.2. EZ Generator Switch

This product is being seen in Canadian markets and this item is for awareness. This is a US product, but it hasn’t completed all the certification processes for Canada and is not being accepted in Ontario. It is certified to CSA C22.2 No.14. This standard seems to be used as a “catchall” standard but it’s actually an industrial standard, which may be why the product hasn’t been certified for use in Canada. The member representing Electrical Standards / Testing / Certification Organizations will investigate and bring forward any further info. [Conway]

4.3. Consistent Application of Code Requirements for Dual Lug Meter Base in Solar Installations

Inconsistency in the application of this section of the code has been seen across the province. The following was discussed:

- A diagram of three possible scenarios of how dual lug meter bases could be used, which came from a passive house designer, was reviewed. The second scenario is not code compliant.
- Some AHJs and utility providers don't allow line side connections, but others, including the City of Calgary and the City of Edmonton, do.
- It's believed that this can be done compliantly if the meter base is approved for the dual lug and the solar photovoltaic disconnects are appropriately rated.
- Ways to increase consistency across the province are being sought.
- The member representing Electrical SCOs will bring this topic to the EIAA meeting in February. Ed Knaggs and Jason Drenth will assist in developing materials.
- Demarcation location – Utility is in care and control of the cable in a residential setting up to the line side of the meter base.
- Whom has ownership of the cable is between the utility and the owner. Example: if the demarcation location is the property line, the utility is still in care and control of the voltage going to the meter base. If the homeowner damages the cable, either the utility or homeowner pays for the cable but that is a contractual matter between the owner and utility.
- It was reported that the CE Code 2024 won't require a connection at the demarcation location—it could just be property line—which may further complicate the issue.

4.4. Code Interpretation re. CSA C22.3. No7:20 and C22.1 10-210

It was reported there are different interpretations of these two code requirements, which is resulting in some AHJs not passing installations that are believed to be compliant. At their last meeting, the Electrical Utilities Sub-Council moved to form a joint working group with the Electrical Sub-Council to investigate this topic.

Scott Basinger / Glenn Hedderick moved to form a joint working group with the Electrical Utilities Sub-Council to investigate an apparent conflict between CSA C22.3. No7:20 and C22.1 10-210; CARRIED

Gerry Doan/ Hussein Desouki moved that member include Nicolas Leblanc (as Chair), Ken Hood, Gerry Doan and Lori Martens; CARRIED

Nicolas Leblanc / Scott Basinger moved that an interim report will be provided at the April 2024 ESC meeting; CARRIED

4.4. Energy Storage System STANDATA

Discussions in the City of Calgary safety codes department uncovered concerns in the building discipline about enforcement of this STANDATA. Specific concerns include:

- a building permit couldn't be issued.
- the electrical SCO isn't able to evaluate the building-related requirements such as firewalls.

- lack of awareness after the STANDATA is retired.

It was suggested that the electrical SCO can accept written/documented proof, such as an engineer's sign-off, from the permit holder. It was reported that CSA intends for these requirements, which will be in the 2024 CE Code, to eventually be incorporated into building codes.

It was reported that an updated version of the STANDATA that aligns with CSA's Memorandum of Revisions has been posted on the Government of Alberta website, and a redline document is in the portal.

4.2. Working Group Reports

4.1. Non-metallic Outer Jacket Cables

Nothing to report as the chair is not in attendance.

4.3. Energy Storage Systems

Nothing to report.

4.3. Liaison Reports

4.3.1. Building

BSC met on September 7. There were no discussions of interest to the electrical discipline.

4.3.2. Electrical Utilities

EUSC met on October 12. The key item of interest was the working group formation, which was addressed under item 4.4.

4.4. Administrator/AMA Report

The Administrator reported on the following:

- In addition to the Administrator, Cameron Doram will attend ESC meetings and Gregg Marshall will attend EUSC meetings on behalf of Municipal Affairs as electrical technical advisors. Morgan Pendray-Frame has recently joined the electrical team at Municipal Affairs as Electrical Technical Advisor and may attend meetings as well.
- Revised Energy Storage Systems STANDATA variance expected to be published shortly.
- A joint Electrical and Elevating Devices advisor position is being posted soon.
- Upcoming meetings of interest in the electrical discipline

4.5. Council Updates

A written report was included in the portal and updates were provided on:

- Member Training will be held on Wednesday, November 8, via Zoom. Please contact Gerry Letendre to register.
- The Council Member satisfaction survey will be sent out this fall in conjunction with the Council's annual stakeholder survey. Individuals who fill multiple roles in the safety codes system (ex. Sub-council member and SCO) will receive questions related to all their roles. Please watch your email and take a few moments to complete the survey when you receive it.

5. Meeting Finalization

5.1. Round Table

- It was asked how various jurisdictions are managing electric vehicle energy management systems (EVEMS). It was noted that SPE 343 standard is being developed and is anticipated to be finished by the end of the year. It was reported that Vancouver is receiving many requests for these and is working on a bulletin. Documents have been posted in portal about EVEMS, including their history and projected future. Manitoba calculates them at 100% demand. Nova Scotia does not have a process for them because no standards exist. The Electrical Administrator would like to gather information about what Albertan AHJs are doing currently with EVEMS to inform development of guidance. It was reported that the City of Calgary is managing these devices on a case-by-case basis. There is a great deal of industry change happening around these devices, and it would be beneficial to gather information from manufacturers to understand the topic better.

Scott Basinger/ Glenn Hedderick move to form a working group to gather information regarding electrical vehicle energy management systems and report back to ESC for further direction; CARRIED

Move that the group include Hussein Desouki (as Chair), Scott Basinger, Adam Ghani, Patrick Conway, and Gerry Doan, with support from AMA; CARRIED

Glenn Hedderick / Gerry Doan moved that the working group provide an interim report at the next ESC meeting; CARRIED

- The Electrical Administrator reported that the existing variance STANDATA 21-ECV-006-112 that allows 1.5 inch rigid conduit for overhead service masts is not expected to be renewed when 2024 code is in force. There are several reasons, including the drive for national harmonization, conduit is becoming heavier, weather more unpredictable, harmonization,). Alberta is currently the only province that allows 1.5 inch rigid conduit for overhead and no rationale for the variance has been found. The Administrator plans to issue a notice shortly.
- Issues are being seen regarding generators and transfer switches for utility towers. It was suggested that the situation could be improved by clarifying the existing STANDATA. The member representing electrical safety codes officers will gather information for discussion at the next meeting. [Redden/Council Administration]
- Electrician trade qualification exams are resuming. The education sector anticipates a curriculum revision next year with material being rearranged and new content incorporated such as renewables, industrial pneumatics and hydraulics.
- Upcoming changes to the CE Code were shared, including one that will allow use of QR codes for information (other than warnings and markings) on equipment.
- The CANRea conference will be held in Calgary next week.

5.2. Next Meeting

The next meeting was reconfirmed for January 22, 2024 via videoconference at 9:00 a.m.

5.3. Meeting Adjournment

The meeting was adjourned at 12:58 p.m.

– NEW ACTION ITEMS –

4.2. EZ Generator Switch

The member representing Electrical Standards / Testing / Certification Organizations will investigate and bring forward any further info. [Conway]

5.1. Round Table

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– MOTIONS –

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– WORKING GROUP MEMBER LISTS –

WORKING GROUP	WORKING GROUP MEMBERS (<u>Chair</u>)
Non-metallic outer jacket cables re. gap in CE Code Rule 12-500	<u>Bert de Bruin</u> Ken Hood, Gerry Doan, Adam Ghani
Energy Storage	<u>Ed Knaggs</u> Gerry Doan, Nicolas Leblanc Municipal Affairs : Cameron Doram