



**MINUTES OF THE
FIRST ELECTRICAL SUB-COUNCIL MEETING OF 2024**

DATE: January 22, 2024

TIME: 9:30 a.m. to 12:40 p.m.

LOCATION: Videoconference

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

Safety Codes Council
Allison Karch, Jennifer Johnson, Mychele Joyes

Alberta Municipal Affairs
Kevin Glubrecht, Gregg Marshall, Morgan Pendray-Frame

REGRETS: Ken Hood

GUESTS: Jason Drenth, EUSC Liaison; David Myers; Denny Smith; Don Kuziw; Greg Briggs

RECORDER: Allison Karch

2024 MEETINGS: April 8, June 17

1. Meeting Opening

The meeting was called to order at 9:30 a.m. A round table introduction was held, 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 title of item 4.1. was corrected to “Utility Towers”.

Clark Redden / Gerry Doan moved that the agenda be adopted, as amended; CARRIED

1.2 Adoption of the October 16, 2023 Minutes

Scott Basinger / Glenn Hedderick moved to adopt the minutes of the October 16, 2023 meeting, as circulated; CARRIED

2. Matters for Decision

2.1. Closed Session

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

Scott Basinger / Nicolas Leblanc moved to exit closed session; CARRIED

2.1.1. Reappointment of Ed Knaggs to represent Solar

Hussein Desouki / Scott Basinger moved to recommend to the Board reappointment of Ed Knaggs to the Electrical Sub-Council to represent the Solar industry segment for a term ending January 31, 2027, effective February 1, 2024; CARRIED

2.1.1. Reappointment of Lori Martens to represent Municipalities

Clark Redden / Scott Basinger moved to recommend to the Board reappointment of Lori Martens to the Electrical Sub-Council to represent the Municipalities industry segment for a term ending January 31, 2027, effective February 1, 2024; CARRIED

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	CSA has rejected the proposal and closed the topic. The Administrator reported that Alberta is only province that enforces concrete encasements, and he requested guidance on how to go forward. Scott Basinger/Ed Knaggs moved to

					close this item; CARRIED
2.	Colour Coding Code Change Request	<p>Code change request was not approved for the 2024 code but the Section 4 subcommittee retained this item.</p> <p>CSA ballot info seems to show a conflicting interpretation of how OBY is being used.</p> <p>Adam Ghani, Bert DeBruin, Gerry Doan, and Ken Hood will review the ballot info to determine any potential next steps.</p> <p>Revisions have been made to address the CSA ballot comments and are currently being reviewed.</p>	Dec 5/22	Ghani	Being discussed at EIAA. Ongoing.
3.	Rule 26-602 re. New Installations with Second Dwellings	<p>The code does not stipulate where the electrical panel has to be located. The proponent sent a code change request to CSA.</p> <p>May be discussed at EIAA; Clark Redden will bring updates.</p> <p>Tracking ID: CSA 22.1.21:013</p>	Feb 6/23	Chledowski / Redden	No updates available; ongoing.
4.	EZ Generator Switch	<p>This is a US product, but it hasn't completed all the certification process 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.</p> <p>The member representing Electrical Standards/Testing/Certification Organizations will investigate and bring forward any further info.</p>	Oct 16/23	Conway	No updates available; ongoing.

4. Matters for Discussion

4.1. Utility Towers

This item was brought forward by the member representing electrical safety codes officers. An interpretation of grounding requirements for generators was shared and the group was asked to validate the interpretation. The following was discussed:

- There have been reports of confusion among industry about the interpretation and applicability of these rules to generators used at utility towers, though others reported that they haven't seen evidence of this confusion.
- The CE Code Memorandum of Revisions #4 includes analysis and explanation of why rules changed. The diagrams for grounding and bonding will be changed in the 2024 CE Code to improve clarity, but the rules themselves won't be changed.
- Each installation needs to be reviewed and assessed individually.
- This will be brought to the EIAA meeting to see if there is a widespread confusion.

4.2. Section 64-218

This item was brought forward by the Administrator to gain insight about the intent of this rule, which is believed to be that the inverter must be within one meter of the array that it's protecting, not just one metre from any array. Members suggested that rapid shutdown would be required for the whole system when the inverter is outside the boundary of the subarray it's associated with. It was suggested that the interpretation STANDATA related to this item may benefit from increased clarity.

4.3. 3 or 4 Season Rooms

An electrical safety codes officer forwarded this question through the representative. Clarity is requested on wiring requirements for enclosed decks, also known as 3 or 4 season rooms. It was suggested that the building code would determine whether it is considered part of the dwelling, which would define which electrical requirements apply. This will be brought to the Building Sub-Council meeting in March. [Martens/Council Administration]

4.4. Working Group Reports

4.4.1. Non-metallic Outer Jacket Cables

No report was available.

4.4.2. Energy Storage Systems

The variance STANDATA has been issued and the CE Code Memorandum of Revisions #4 shows the change is incorporated in the 2024 CE Code.

Nicolas Leblanc / Gerry Doan moved to close the Energy Storage Systems Working Group; CARRIED

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

This group will hold its kickoff meeting January 31st to clarify the problem and identify next steps.

It was noted that a new working group was inadvertently omitted from the agenda, and a report was invited from the working group chair.

Working group on Electrical Vehicle Energy Management Systems

The group met and identified some proposed provisions for these systems. Most of the concerns revolve around installations of current transformers being installed into panels after construction. It was noted that if the panel is not rated for the current transformers inside of it, the panel's certification would be voided.

4.5. Liaison Reports

4.5.1. Building

BSC met last week, and there were no items of interest to the electrical discipline.

4.5.2. Electrical Utilities

The next EUSC meeting is February 1st.

4.4. Administrator/AMA Report

Gregg Marshall, on behalf of the Administrator, reported the following:

- The team is reviewing existing STANDATA against the CE Code 2024 edition.
- Energy Storage Systems STANDATA variance is issued and will be retired when the 2024 CE Code is in force in 2025.
- An overview of meetings in the electrical discipline.
- Lucie Riopel is a new technical advisor in the electrical and elevating devices discipline.

4.5. Council Updates

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

- Nominees for the Dr. Sauer Award, which recognizes the outstanding contributions of a Council member, were solicited. An email with a link to the online form was sent to all members and the deadline for submissions is January 23.
- Changes have been made to a number of policies that affect members. An overview of changes was given and members were asked to review all the policies, which are in the Governance Documents folder in the portal.

5. Meeting Finalization

5.1. Round Table

No items were brought forward.

5.2. Next Meeting

The next meeting was reconfirmed for April 8, 2024, at the Council office at 9:30 a.m.

5.3. Meeting Adjournment

The meeting was adjourned at 12:40 p.m.

– NEW ACTION ITEMS –

4.3. 3 or 4 Season Rooms

It was suggested that the building code would determine whether it is considered part of the dwelling, which would define which electrical requirements apply. This will be brought to the Building Sub-Council meeting in March. [Martens/Council Administration]

– MOTIONS –

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3.1. Concrete Encasements

Scott Basinger/Ed Knaggs moved to close this item; CARRIED

4.4.2. Energy Storage Systems

Nicolas Leblanc / Gerry Doan moved to close the Energy Storage Systems Working Group; CARRIED

– 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
Code Interpretation re. CSA C22.3 No 7:20 and C22.1 10-210 (Joint with EUSC)	<u>Nicolas Leblanc (Co-Chair)</u> Ken Hood, Gerry Doan, Lori Martens
Electrical Vehicle Energy Management Systems	<u>Hussein Desouki</u> Scott Basinger, Adam Ghani, Patrick Conway, Gerry Doan