



Safety Codes Council

MINUTES OF THE FIFTH ELECTRICAL SUB-COUNCIL MEETING OF 2021

DATE: October 4, 2021

TIME: 8:30 a.m. to 11:00 a.m.

LOCATION: Videoconference

PRESENT: *Sub-Council Members*

Gerry Wiles, Chair
Scott Basinger, Vice Chair – North
Patrick Conway
Bert DeBruin
Hussein Desouki
Gerry Doan
Tim Driscoll
Ken Forbes
Adam Ghani, Vice Chair – South
Glenn Hedderick
Ken Hood
Lori Monaghan
Barry Voogd
Ed Knaggs

Safety Codes Council

Kathryn Derkach, Jennifer Johnson

Alberta Municipal Affairs

Clarence Cormier, Bob Hall, Liz Gillean

REGRETS: John Briegel
Nicolas Leblanc

GUESTS: Tyler Masson, Small/Municipal Electrical Utility Business; Todd Grayson, Rural Electrification Areas

RECORDER: Jennifer Johnson

2021 MEETINGS: December 6

1. Meeting Opening

The Chair called the meeting to order at 8:30 a.m.

1.1 Agenda Adoption

The following items were added to the agenda:

- Item 4.9 – Replacement Breakers

Gerry Doan/Adam Ghani moved that the agenda be adopted, as amended; CARRIED

1.2 Adoption of the June 7 Minutes

Ken Hood/Gerry Doan moved to adopt the minutes of the June 7 meeting, as circulated; CARRIED

1.3 Adoption of the August 19 Minutes

Ken Hood/Scott Basinger moved to adopt the minutes of the August 19 meeting, as circulated; CARRIED

2. Matters for Decision

2.1. Closed Session

Ed Knaggs/Scott Basinger moved to go into Closed Session.

Scott Basinger/Ed Knaggs moved to come out of Closed Session.

2.1.1. Vice Chair North Election

The floor was opened for nominations and Glenn Hedderick nominated Scott Basinger as Vice Chair North of the Electrical Sub-Council; Scott Basinger accepted the nomination. The Chair called for any other nominations; none were received. **Scott Basinger was appointed Vice Chair North of the Electrical Sub-Council by acclamation.**

2.1.2. Vice Chair South Election

The floor was opened for nominations and Glenn Hedderick nominated Adam Ghani as Vice Chair South of the Electrical Sub-Council; Adam Ghani accepted the nomination. The Chair called for any other nominations; none were received. **Adam Ghani was appointed Vice Chair South of the Electrical Sub-Council by acclamation.**

2.1.3 Matrix Review

Ed Knaggs/Glenn Hedderick moved to accept the Electrical Sub-Council Matrix with no changes; CARRIED

2.1.4. Skills Matrix Review

Tim Driscoll/Glenn Hedderick moved to accept the Electrical Sub-Council Skills Matrix with no changes; CARRIED

2.2 Proposed Provincial Variance on 18-150 2)

The 2021 Code has the unintended consequence of not including some equipment that is commonly used in zone 2 and div 2 locations (ie transformers, capacitors, some types of fuses).

Ken Hood/Ken Forbes moved to support the issuance of a proposed Provincial Variance on 18-150 2); 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: Scott is working on a proposed change for the next code cycle (2024). This will be brought to the sub-council at a future meeting.	Feb 6/17	Basinger	Item 4.1 on agenda
2.	USEI Cable	The Administrator can respond to the submission with the input provided from the working group report.	June 7/21	Cormier	The Administrator issued a variance and contacted the submitter. The variance will no longer be necessary once the 2021 code is adopted.
3.	Farm Services	A response will be sent back to the proponent.	June 7/21	Council Staff	Council staff is sending a letter to the proponent.
4.	Submission re CE Code 26-256 Current Calculations	Administrator will provide a written reply to the proponent and copy the sub-council.	June 7/21	Cormier	The Administrator spoke with the proponent.

4. Matters for Discussion

4.1. Concrete Encasements

Scott Basinger will upload the spreadsheet with his findings to the Member Portal. Members are asked to review and provide comments. [Basinger/All]

4.2. Submission re In Ground Enclosures

This item was continued from the June 7 meeting, item 4.1 and the following was discussed:

- The standard C22.2 No 344:20 was recently issued but there is a no certification program available yet for a CB to evaluate the products. Special inspection by an Inspection Body (IB) may be an option. If not, a variance would be required for the SCO to accept as an unapproved product.

4.3. Submission re CE Code 08-100 Current Calculations

This item was continued from the June 7 meeting, item 4.7.1 and the following was discussed:

- Current practice by the colleges and training programs is to not go over at all, although there is some flexibility to one decimal point.
- A change in practice would have a big impact on training programs. A large rewrite of the programs is currently underway and order to be incorporate a change they would need to be notified as soon as possible.
- The Administrator will bring the topic to the CSA Section 8 committee and inform the proponent [Administrator]

4.4. Colour Coding of Conductors in Section 4

The following was discussed:

- Where there are two or more slash voltages in a facility, the colour coding of conductors is followed as per the CE Code.
- However, it was standard practice for many years to use orange, brown, yellow (OBY) to identify different voltages, e.g. 600Y/347V. This can cause confusion.
- Looking for discussion and recommendation on how to handle legacy installations where this is an issue.

Adam / Bert DeBruin moved to create a Working Group to discuss the colour coding of conductors as defined in the CE Code Sections 4 and 24 and review legacy installations; CARRIED

Ken Hood / Gerry Doan move to include the following members: Adam Ghani, Bert de Bruin, Ken Hood, and Gerry Doan, with Adam Ghani as chair; CARRIED

Adam Ghani/Gerry Doan moved that the group will provide a final report for the December 6, 2021 meeting; CARRIED

4.5. Working Group Reports

4.5.1. AEUC

The new Electrical Utilities Sub-Council will carry on the work of the AEUC Working Group. They have not yet had their first meeting.

4.5.2. 2021 CE Code Review

The working group has identified points, for recommendations regarding STANDATA.

Ken Forbes/Tim Driscoll moved that the Electrical Sub-Council forward the results of the 2021 CE Code Review working group to Municipal Affairs for possible creation of STANDATA; CARRIED

4.5.3. Non-Metallic Outer Jacket Cables

The working group would like to extend the work of the group until the next ESC meeting.

4.5.4. Submerged Equipment

Ed Knaggs/Tim Driscoll moved to disband the Submerged Equipment working group; CARRIED.

4.6. BSC Liaison Report

The BSC meeting was last week and no items related to the electrical discipline were discussed.

4.7. Administrator/AMA Report

The Administrator reported:

- Continue to work on Safety Tips (Electrical Safety, Structures Near Power Lines, and Aluminum Wiring in Residential Installations)
- Upcoming meetings of interest:
 - November 10 – CACES (Canadian Advisory Council on Electrical Safety)
 - November 15 – CSA CE Code, Part 1 Executive Committee
 - November 16 – TCIP (CSA Technical Committee on Industrial Products)
 - November 17/18 – AEA (Alberta Electrical Alliance) Electrical Learning EXPO
 - November 19 – SCORES (CSA Steering Committee on Requirements for Electrical Safety)
- Lightning Protection Systems proposed Joint STANDATA is undergoing management review
- Reconciliation of the Canadian Electrical Code within Canada:
 - Though the adoption of the CE Code across Canada acts as a common baseline, the uneven adoption of the CE Code as well as the addition of modifications and amendments leads to misaligned regulatory requirements across jurisdictions, which results in technical barriers to trade, trade irritants, and has implications for the implementation of the CE Code
 - NPSAC has been designated as the working group for the reconciliation of the Canadian Electrical Code (CE Code) across jurisdictions
 - From the SCC website: the National Public Safety Advisory Committee (NPSAC) plays a distinct role in the development and application of the codes and standards used in Canada. It is the only national body working at the policy level to promote the common adoption and consistent administration of the safety codes and standards for the following discipline areas:
 - Elevation devices; passenger ropeways
 - Amusement rides
 - Fuel
 - Boilers and pressure vessels
 - Electrical safety

4.8. Council Updates

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

- Appeal in the Electrical Discipline
 - There was an appeal with respect to the refusal of a Master Electrician Certificate of Competency in February 2021.
 - The redacted decision from this appeal can be reviewed [here](#).
- Meeting location – virtual vs in-person
 - Staff have been asked by Council leadership to review our meeting location with a focus on cost savings.
 - Sub-Council chairs were consulted about their experience chairing virtual vs in-person meetings.
 - The Council Executive Leadership have approved the hybrid of virtual and in-person meetings which will start in 2022.
- Annual General Meeting – October 29, 2021
 - Virtual afternoon event including a volunteer appreciation program.
 - Staff will reach out via email about sponsorship opportunities.
- Council office reopening on December 6, 2021
 - Staff may continue to work from home on some days.
- Professional Development
 - New Member Orientation: Tuesday, November 9, 9:00 am – 12:30 pm.
 - Effective Meetings Workshop: Wednesday October 20 and Thursday October 22, 8:30 am – 12:30 pm (must attend both days).
 - Appeals Training Workshop: Wednesday October 27 and Thursday October 28, 8:30 am – 12:30 pm (must attend both days).
 - To register for any of these trainings, please contact Gerry at gerry.letendre@safetycodes.ab.ca

4.8.1. 2022-2023 Meeting Dates

- Please see draft schedule document in the Member Portal and let Council staff know of any that may conflict with industry events
- Will be finalized in December

4.9. Replacement Breakers

The following was discussed:

- Looking for clarification on whether or not certain breakers are approved
- Some AHJs are allowing them while others are not, would be good to get clarification at a provincial level
- These particular breakers are only tested in one particular panel so would only be approved for use in that panel

Ken Forbes/Ed Knaggs moved to recommend that Municipal Affairs issue an information STANDATA reminding industry that any breakers used in panel boards need to be certified for use in that panelboard; CARRIED.

5. Meeting Finalization

5.1. Round Table

- Tim Driscoll reported that there is an Alberta interpretation that AFCIs are a requirement for attached garages, he will look into what other provinces are doing
- Glenn Hedderick reported that there appear to be some inspectors misinterpreting the Farm Services STANDATA

5.2. Next Meeting

The next meeting was reconfirmed for December 6, 2021 via teleconference at 8:30 a.m.

5.3. Meeting Adjournment

The meeting was adjourned at 11:00 a.m.

– NEW ACTION ITEMS –

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[Basinger/All]

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[Administrator]

– MOTIONS –

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– WORKING GROUP MEMBER LISTS –

WORKING GROUP	WORKING GROUP MEMBERS (Chair)
AEUC	<u>Brian Townsend</u> Jim Porth, Cory Akins, Ran Li, Sandya Neelawala, Travis Shmyr, Ken Chao, Clark Laing, Barry Thoms, Will Hillary, Al Nagel, Henry Navis, Rodger Renwick, Brian Wagner, Lisa Liusz Senio, Mark Liebel, Graeme Vanderstar, Tony Walker
Single Family Residential Dwellings (Joint with GSC)	ESC: Barry Voogd, Bert DeBruin GSC: Roy Herrington, Mark Guderjan, Larry Miller
Colour Coding of Conductors	<u>Adam Ghani</u> Bert DeBruin, Gerry Doan, Ken Hood
2021 CE Code Review	<u>Ken Forbes</u> Ed Knaggs, Patrick Conway, Glenn Hedderick, Tim Driscoll
Non-metallic outer jacket cables re. gap in CE Code Rule 12-500	<u>Bert de Bruin</u> Ken Hood, Gerry Doan, Adam Ghani