



# Safety Codes Council

## MINUTES OF THE FOURTH ELECTRICAL SUB-COUNCIL MEETING OF 2020

**DATE:** September 28, 2020  
**TIME:** 9:30 a.m. to 2:30 p.m.  
**LOCATION:** Safety Codes Council Office, Edmonton

**PRESENT:** *Sub-Council Members*  
Gerry Wiles, Chair  
Scott Basinger, Vice Chair – North  
Patrick Conway  
Bert DeBruin  
Gerry Doan  
Tim Driscoll  
Ken Forbes  
Adam Ghani  
Todd Grayson  
Glenn Hedderick, Vice Chair – South  
Ken Hood  
Tyler Masson  
Lori Monaghan  
Brian Townsend  
Barry Voogd

*Safety Codes Council*  
Amina Deiab, Susan Rossmann, Kathryn Derkach, Jennifer Johnson  
Michael Lalonde, Kris Schmaltz (Item 4.2)

*Alberta Municipal Affairs*  
Clarence Cormier, Bob Hall

**REGRETS:** John Briegel  
Hussein Desouki  
Nicolas Leblanc

**GUESTS:** Larry Cantelo (Item 4.13)

**RECORDER:** Jennifer Johnson

**2020 MEETINGS:** November 16

## **1. Meeting Opening**

The Chair called the meeting to order at 9:35 a.m. A round table introduction was held and teleconference tips and etiquette was reviewed. Amina Deiab, the new President & CEO, took a few minutes to introduce herself to the sub-council.

### **1.1 Agenda Adoption**

The following items were added to the agenda:

- 4.12 2021 CE Code 2-317
- 4.13 Battery based energy storage systems

**Todd Grayson/Scott Basinger moved that the agenda be adopted, as amended; CARRIED**

### **1.2 Adoption of the May 4, 2020 Minutes**

**Glenn Hedderick/Ken Hood moved to adopt the minutes of the May 4, 2020 meeting, as circulated; CARRIED.**

## **2. Matters for Decision**

### **2.1. Closed Session**

**Scott Basinger/Ken Hood moved to go into closed session; CARRIED.**

**Ken Hood/Scott Basinger moved to come out of closed session; CARRIED.**

#### **2.1.1. Reappointment of Gerry Wiles to represent Major Municipalities – North**

*Adam Ghani chaired this item*

**Brian Townsend/Ken Hood moved to recommend to the Board reappointment of Gerry Wiles to the Electrical Sub-Council to represent Major Municipalities - North for a term ending January 31, 2024, effective February 1, 2021; CARRIED.**

#### **2.1.2. Reappointment of Scott Basinger to represent Electrical Manufacturers**

**Glenn Hedderick/Brian Townsend moved recommend to the Board reappointment of Scott Basinger to the Electrical Sub-Council to represent Electrical Manufacturers for a term ending January 31, 2024, effective February 1, 2021; CARRIED.**

#### **2.1.3. Appointment of Ed Knaggs to represent the Solar PV Industry**

**Adam Ghani/Brian Townsend moved recommend to the Board appointment of Ed Knaggs to the Electrical Sub-Council to represent the Solar PV Industry for a term ending January 31, 2024, effective February 1, 2021; CARRIED.**

#### **2.1.4. Matrix Review**

The sub-council matrix was reviewed to ensure it continues to appropriately represent the electrical discipline.

#### 2.1.4.1. CanSIA name change to Canadian Renewable Energy Association (CanREA).

Glenn Hedderick/Scott Basinger moved to recommend the Board of Directors update the Electrical Sub-Council matrix to correct the Solar industry nominating organization to be Canadian Renewable Energy Association; CARRIED.

#### 2.2. Single Family Dwelling Joint Working Group

It was identified at a previous meeting that the term “single family dwelling” can cause confusion. It was proposed a joint working group be formed to review the definition and provide clarification.

Bert DeBruin/Ken Hood moved to form a joint working group to review the definition of Single Family Residential Dwelling within the Permit Regulation; CARRIED.

Ken Hood/Scott Basinger moved that the working group would provide a recommendation by the end of 2020; CARRIED.

Ken Hood/Brian Townsend moved that the following members represent the ESC on the working group: Barry Voogd and Bert DeBruin; CARRIED.

### 3. Review Matters Arising/Action List

1.	CE Code-072 – Concrete Encasements	Consider drafting a Proposed Change to CE Code Part 1 <b>UPDATE:</b> The working group is still 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	CE Code Working Group	No meeting due to Covid, no update at this time.
2.	Multi Family Unit Site Bonding	It was decided that the affected municipalities will meet with the proponent to discuss the issue further.	Jan 13/20	Wiles	On hold.
3.	Award Nominations	It was discussed that a former member will be nominated for the Dr. Sauer and the Certification Award	Jan 13/20	Leblanc	Awards delayed due to Covid-19. Nominations are still being accepted. Can be removed.

### 4. Matters for Discussion

#### 4.1. AGM Updates

The following was discussed and a presentation is available in the portal

- Safety Codes Council AGM was postponed this year due to Covid-19 and plans are being made to host it virtually towards the end of October

- Need to hold the AGM to approve the bylaw changes that were recommended as a result of last year's governance review
- A refresher of the recommendations was provided: dissolve the TCC, creation of two new sub-councils for Electric Utilities and Private Sewage Disposal Systems

#### **4.2. Council Education Presentation**

A presentation by Kris Schmaltz and Michael Lalonde was included in the portal and highlights from the presentation included:

- The Council is reviewing its approach to education and training in the system and has developed outcomes and principles to guide programming
- Looking for stakeholder feedback on the proposed future direction of building capacity system-wide through shared understanding and knowledge, and any gaps anyone sees regarding education in the system.
- Targeting a broader system-wide audience could improve shared consistency in understanding of roles, responsibilities, and general knowledge in the safety system

After the presentation, the following was discussed:

- Existing partnerships with educational organizations will continue, also looking to add more partnerships
- Would be helpful to target the general public with information on permitting as well as general information regarding the various disciplines
- Contractors and SCOs could have a broader understanding of the building code as well as being able to identify where the codes overlap
- Ensuring journeymen electricians know the limitations of their license
- It was proposed that the Council could supply a checklist for electricians similar to what SCOs have, this would assist contractors moving between residential and commercial projects
- Indicators of success could include less deficiencies as well as less mistakes happening at the design stage

#### **4.3. Submission on C22.1-18 Rule 4-004 and Table 5D**

The following was discussed:

- Request to provide information for dealing with more than 6 insulated conductors or cables laid horizontally in ventilated and ladder-type cable trays
- It was noted that this is likely a Part 1 issue
- Scott Basinger offered to bring back more information for the next meeting
- Add to next meeting's agenda [Council Staff/Basinger]

#### **4.4. Submerged Equipment**

There are two differing trains of thought when dealing with flooding and submerged electrical equipment: some say it can be tested and put back into service, others say it should not go back into service.

The following was discussed:

- It was noted that it may depend on the type of flooding (ie. clean water or sewer water)
- Concerns that while testing results may show it's okay now, that could change over time as the lifespan of the insulation may be impacted

- Other items to consider include insurance concerns as well as how to properly dispose of cables
- Should depend on whether equipment is rated for wet or dry location

**Gerry Doan/Ken Hood moved to recommend that if the cable is rated for wet locations it can be tested and reused, if the cable is rated for dry locations it must be recertified; motion was deferred until the next meeting in order to allow more input from technical advisors.**

#### **4.4.1. Electrical Tips for Returning to Your Home or Business after a Flood Safety Tips**

This item was deferred.

#### **4.4.2. Water Damage 2-032 STANDATA draft**

This item was deferred.

#### **4.5. Electrical Safety Tips**

A document was provided for members to review and the following was discussed:

- Under “Electrical safety at home” provide a link for reporting an electrical incident or injury
- Update language of “notify your electrical company” to reflect current market (ie. retailer, distributor, etc.)
- Edit “Avoid overhead powerlines” to use more current messaging of “keep 70 m away from overhead power lines” and add “especially when using...”
- Remove “grain” and replace with “all truck boxes”
- Disconnecting power meter is illegal
- Suggestion to include a link with information on distance requirements based on voltage
- [www.wherestheline.ca](http://www.wherestheline.ca) is good resource to refer to as well
- Administrator will update the document with the feedback provided

[Administrator]

#### **4.6. Electrical Railways STANDATA**

The STANDATA was reviewed and discussed.

**Scott Basinger/Adam Ghani moved to support the issuance of LEG-ECR-3 Electrical Railways STANDATA; CARRIED.**

#### **4.7. Working Group Reports**

##### **4.7.1. AEUC**

The following update was given:

- Working primarily on getting the new update out
- Was waiting on CSA to publish CSA 22.3 as they were delayed, but it is out now
- On track to have the updates out in 2021

##### **4.7.2. CE Code**

The following update was given:

- Have not met due to Covid-19
- At least one more meeting is needed to finish up the code proposal

#### **4.7.3. Hazardous Locations**

The following update was given:

- Have not met due to Covid-19
- Working groups being disbanded and moving to ad hoc
- One remaining action item, will work with Administrator and technical advisor to draft a STANDATA

#### **4.7.4. CE Code Farm Services**

A written report was included on the member portal. Highlights were discussed and included:

- Responses to submission 6-300 were supplied and reviewed
  - A letter of response to EIAA will be drafted explaining the outcome and the reasoning
- Responses to grounding submission 4.13 were supplied and reviewed
  - There was some disappointment utility companies won't support provisions for single point grounding on the supply side, however the working group understands it is a liability issue
  - There was some discussion around what constitutes single point grounding
  - Wording of the STANDATA was discussed and it was agreed to remove suggested section regarding installation of an additional bonding electrode in order to reduce confusion

**Ken Hood/Glenn Hedderick moved to pass along the information from the working group to the Administrator in order to draft a STANDATA on grounding for farm services for review by the Electrical Sub-Council; CARRIED.**

#### **4.8. BSC Liaison Report**

The following was reported:

- BSC is also looking at issues with farm buildings

#### **4.9. Administrator/AMA Report**

The Administrator reported:

- 18-CECI-64 Draft STANDATA – “LTR” will be removed since they have all been rolled into ORD's
- MOR 4.1, 2018 CE Code – shows all changes for the 2021 CE Code
- Electrical Technical Session Webinar, recording will be posted on the Council website
- CACES Task Forces minutes are available
- Safety Codes Act was updated in July 2020 to address ministerial powers during a declared state of emergency
- The following joint STANDATAS have been issued: “Existing Elevator Modernization/Fire Alarm Interface” and “Existing Fire Alarm Systems”
- Continuing to work with Building Administrator on lightning protections systems

#### **4.9.1. Section 64 – Renewable energy systems Draft STANDATA**

The draft STANDATA was included in the member portal for review. Any feedback can be sent to the Administrator directly.

#### **4.9.2. MOR 4.1 – 2018 CE Code**

The confidential document was included in the member portal for use by working groups.

#### **4.10. 2021 Meeting Dates**

Proposed 2021 meeting dates were posted in the portal and reviewed by members. It was agreed that since meetings will be online for the foreseeable future the group would like to start future meetings at 8:30 am.

#### **4.11. Council Updates**

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

- Staff continue to work from home until October
- Sub-council meetings continue to be online until further notice, members are asked to provide any feedback on how to improve the meeting experience
- Responsibility for services related to storage tank systems has been moved to ASCA at the Council
- Reminder to please fill out your member survey
- Increasing our social media presence, please forward any info your nominating organization would like to share with the general public
- Launching a new public website soon, would like one or two members to provide feedback.

#### **4.12. 2021 CE Code 2-317**

- It was noted that a new item has been added to the 2021 CE Code and a receptacle will be required for mobile structures that are to be connected to the alternate power supply through the transfer equipment
- Members noted that this may be difficult for industrial sites to implement

#### **4.13. Battery Based Energy Storage Systems**

Larry Cantelo provided a submission requesting it be mandatory that electrical SCOs inspecting megawatt-scale battery based energy storage systems have specialized training.

The following was discussed:

- It is a relatively new technology, similar to solar, and the code has not kept up so specialized training is necessary for those who would be inspecting these installations
- Currently no training available in Canada
- There are product standards available but they do not cover installations
- It should be opened up to the utilities as well, not just consumers
- Suggestion to include Group A and Group B, but concentrating on Group A at this time as that's where more is happening now
- Safety Codes Act does allow for outside experts to be brought in however, training for some SCOs is a wise idea

- It was suggested that this submission be sent to the education and training team at the Council for their information

[Council Staff]

## **5. Meeting Finalization**

### **5.1. Round Table**

- Thank you to the Farm Services Group for their work
- AHJs may have begun seeing Hazardous Location Assemblies marked with Ex 60079-46 in lieu of the individual protection concepts listed in Table 18. The 60079-46 will also include an EPL. See the final note for Table 18.

### **5.2. Next Meeting**

The next meeting was reconfirmed for November 23, 2020 via teleconference at 8:30 a.m.

### **5.3. Meeting Adjournment**

**Ken Forbes/Brian Townsend moved to adjourn the meeting at 2:30 p.m.; CARRIED.**

**– NEW ACTION ITEMS –**

**4.3. Submission on C22.1-18 Rule 4-004 and Table 5D**

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[Council Staff/Basinger]

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– MOTIONS –

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**5.3. Ken Forbes/Brian Townsend moved to adjourn the meeting at 2:30 p.m.; CARRIED.**

- WORKING GROUP MEMBER LISTS –

WORKING GROUP	WORKING GROUP MEMBERS ( <u>Chair</u> )
AEUC	<p><b><u>Brian Townsend</u></b>            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</p>
CE Code	<p><b><u>Scott Basinger</u></b>            Don Bradshaw, Larry Cantelo, Bert DeBruin, Glenn Hedderick, Brad Van Elslande, David Pickering, Bill McAllister, Cal Whitehead, Ron Taylor, Dennis Senych</p>
Hazardous Locations	<p><b><u>Tim Driscoll</u></b>            Dan Green, Jake Driedger, Mark Throckmorton, Don Basnett, Scott McCorriston, Vince Rowe, Cecil Gordon, Michael Anderson, Marty Cole, Richard Beniuk, Rod Pack, Stephen Hinde, Pat Conoway</p>
CE Code Farm Services	<p><b><u>Glenn Hedderick</u></b>            Ken Forbes, Ken Hood, Gerry Doan, Graeme Vanderstar, Al Nagel, Larry Cantelo, Cameron Doram</p>
Single Family Residential Dwellings	<p>Barry Voogd, Bert DeBruin</p>