



**MINUTES OF THE
THIRD ELECTRICAL SUB-COUNCIL MEETING OF 2019**

DATE: September 16, 2019

TIME: 9:30 a.m. to 1:30 p.m.

LOCATION: Safety Codes Council Office, Edmonton

PRESENT: **Sub-Council Members**
Gerry Wiles, Chair
Scott Basinger, Vice Chair – North
John Briegel
Patrick Conway (arrived at 10:50 a.m.)
Bert DeBruin
Hussein Desouki
Adam Ghani
Todd Grayson
Glenn Hedderick, Vice Chair – South (via conference call)
Ken Hood (via conference call)
Nicolas Leblanc
Tyler Masson
Lori Monaghan
Brian Townsend
Barry Voogd

Safety Codes Council
Allison Karch, Kathryn Derkach, Susan Rossmann, Kris Schmaltz

Alberta Municipal Affairs
Clarence Cormier, Bob Hall

REGRETS: Don Bradshaw, Tim Driscoll

RECORDER: Sandi Orr

2019 MEETINGS: November 18

1. Meeting Opening

The Chair called the meeting to order at 9:35 a.m. Safety and evacuation procedures were explained and a round table introduction was held. Members were reminded that the primary duty of all Council Members is to act in the interest of safety in the built environment for the benefit of all Albertans.

1.1 Agenda Adoption

John Briegel / Adam Ghani moved to adopt the agenda, as circulated; CARRIED

1.2. Adoption of May 6, 2019 Minutes

The minutes were included in the portal and reviewed. The spelling of Nicolas Leblanc's name was corrected.

Nicolas Leblanc / Scott Basinger moved to adopt the minutes of the May 6, 2019 meeting, as corrected; CARRIED

2. Matters for Decision

2.1. Vice Chair(s) Election elect as vice chair(s) for a two-year term, effective immediately

The floor was opened for nominations for Vice Chair. Adam Ghani and Scott Basinger were nominated. After three calls and no further nominations, ***Adam Ghani and Scott Basinger were appointed as Vice Chairs of the Electrical Sub-Council, by acclamation, for a two-year term.***

2.2. Matrix Review – review existing sub-council matrix to ensure it continues to appropriately represents the electrical discipline

It was requested that the Association of Rural Electrifications Areas be corrected to read: Alberta Federation of Rural Electrifications Associations. [Council Administration]

The review of the matrix was held in camera.

Scott Basinger / Adam Ghani moved that the Electrical Sub-Council has reviewed their matrix and recommend to the Board an addition to the Sub-Council matrix for the Solar Industry Segment with the Canadian Solar Industry Association recommended as the nominating organization; CARRIED

It was clarified that any subject-matter experts can be invited whenever needed.

2.2.1. Development of Skills Matrix

It was reported that skills matrices are being developed for each sub-council to assist nominating organizations to find nominees with the right skills and experience.

Each sub-council member was asked to define a few skills and/or qualifications for their own position that would be essential for their work on the sub-council and to forward this to the Council by November 4, 2019. [All]

2.3. Reappointment of Brian Townsend to represent the Large Electrical Utilities industry segment

Brian Townsend removed himself from the meeting during this discussion. Correspondence was included in the portal and reviewed.

Todd Grayson / John Briegel moved to recommend to the Board the reappointment of Brian Townsend to the Electrical Sub-Council to represent the Large Electrical Utilities industry segment for a term ending January 31, 2023, effective February 1, 2020; CARRIED

2.4. Reappointment of Nicolas Leblanc to represent the Oil and Gas Processing industry segment

Nicolas Leblanc removed himself from the meeting during this discussion. Correspondence was included in the portal and reviewed.

Scott Basinger / Adam Ghani moved to recommend to the Board the reappointment of Nicolas Leblanc to the Electrical Sub-Council to represent the Oil and Gas Processing industry segment for a term ending January 31, 2023, effective February 1, 2020

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: The working group is still working on a proposed change for the next code cycle. This will be brought to the sub-council at a future meeting.	Feb 6/17	CE Code Working Group	In progress
2.	Pictograms of Certification Marks	It was explained that maintaining the certification marks in the STANDATA creates a substantive amount of work and it gets out of date very quickly. However, it was noted that this may be the most used STANDATA by	May 6/19	Elliott	It was reported that the STANDATA will remain as is with no pictograms for any

		Electrical SCOs and it would be appreciated, even if only updated once a year. The Department will take another look at it specifically for the Electrical discipline.			disciplines. Closed, this item will be removed from the action list
3.	Medium Voltage Terminations	AMA will look into the topic of uncertified equipment, including that used for medium voltage terminations. UPDATE: Notice regarding variances was viewed on screen. It was suggested that further clarification, such as more examples of recognized evaluation services, is needed and this will be brought back to AMA for consideration. [Cormier]	May 6/19	Cormier/Orr	In progress; new action assigned
4.	AEUC/CE Code WG Joint Meeting on Demarcation	Recommendations about the demarcation point were presented to the Electrical Administrator for consideration of inclusion in a STANDATA.	Nov 5/18	Cormier	With AMA; see motion below table
5.	<input checked="" type="checkbox"/> BOCCI Terminals	The Administrator will conduct further research and bring back to the sub-council. UPDATE: A document was included in the portal with feedback from other jurisdictions in Canada on how they are dealing with BOCCI terminals. It is believed that a product having approval under Part 2 doesn't mean that it meets Part 1 installation requirements.	May 6/19	Cormier	Research by Administrator completed, remove from action list
		Tim Driscoll offered to conduct other research relative to code development.	May 6/19	Driscoll	In progress
6.	Solar PV Rapid Shutdown and Switch Location	Request that the Administrator consider a Variance STANDATA to address this issue.	May 6/19	Cormier	Under item 4.9. Administrator's Report
		The Administrator agreed to make a proposed change to Part 1.	May 6/19	Cormier	Under item 4.9. Administrator's Report
7.	Solar Action Item 5 Rapid Shutdown Equipment	Request that the Administrator consider a Variance STANDATA to address this issue.	May 6/19	Cormier	Under item 4.9. Administrator's Report
8.	Solar Action Item 7 Racking Equipment Approval	Request that the Administrator consider a Variance STANDATA to address this issue.	May 6/19	Cormier	Under item 4.9. Administrator's Report
		The Administrator agreed to submit a code change request relative to the Appendix B note.	May 6/19	Cormier	Under item 4.9. Administrator's Report

9.	EV Charging	Recommend that a STANDATA related to labeling of electrical vehicle charging stations be considered by the Administrator	May 6/19	Cormier	Under item 4.9. Administrator's Report
10.	CEC Appendix A – IEC61508-3 and IEC 61511 Added in Error	Recommend that an Information STANDATA to highlight the IEC documents referenced in error be considered by the Administrator	May 6/19	Cormier	Under item 4.9. Administrator's Report

A discussion was held regarding the originally proposed STANDATA regarding demarcation.

Brian Townsend / Adam Ghani moved to request that the Administrator hold off on the issuance of the Demarcation STANDATA; CARRIED

A discussion was held regarding the total aggregate of 90 volts as identified in Rule 64-216(1).

Scott Basinger / Bert DeBruin that the total aggregate of 90 volts as identified in Rule 64-216(1) be sent to the CE Code Working Group for consideration of increasing the total volts and to review the potential risks of doing so; CARRIED

4. Matters for Discussion

4.1. SCO Competency Profile Project Update

Kris Schmaltz was welcomed to the meeting and reported on a project that is underway to create a Competency Profile for SCOs. These profiles will then be used to determine certification and educational requirements, as well as potential continuing educational opportunities. The Council is engaging with SCOs across all four construction disciplines to determine common competencies. A group of volunteers has begun work and an initial report is being reviewed to determine a gap analysis. Discipline specific competencies will also be determined in the future.

4.2. Province Wide Variance for Liquid Tight Conduit Used in Hazardous Locations

It was reported that C22.1-18 introduced Heavy Duty Liquid Tight Flexible Metal Conduit (HD LTFMC) as a new wiring method for some hazardous locations equipment.

Until recently, there was no certified equipment to meet this code clause, but such products are now available.

This was received as information.

4.3. Existing STANDATA re. Rule 6-206 – Use of Teck Cable for Mechanical Protection

Correspondence was included in the portal and reviewed. An in-depth discussion was held regarding the use of Teck Cable and the following was noted:

- There are no prescriptive requirements regarding length in the code, so it was uncertain how additional requirements could be added in a STANDATA
- The requirements of the utility need to be met
- A solution is needed for longer runs
- CSA is working on additional demarcation overlapping issues between Part 1 and Part 3
- A discussion was held regard whether a sleeve would be permissible
- Some municipalities run through the building while others recommend running the cable under the slabs
- The STANDATA notes that this is a recommended practice, not a mandatory requirement

Scott Basinger / Adam Ghani moved to recommend to the Administrator that no changes be made to the existing STANDATA; CARRIED

4.4. New Canadian Energy Regulatory Act & Associated Regulations

A link was included in the portal to the new Canadian Energy Regulatory Act & Associated Regulations consultation that was held. A discussion paper regarding the consultation and a copy of the new Canadian Energy Regulator Handbook were also included in the portal as information. It was recognized that this was outside of the sub-council's jurisdiction, but good information to be aware of.

4.5. Requested Clarification to Rule 64-216

A request for a variance regarding Rule 64-216 and DC arc fault protection similar to what has been issued in Ontario was included in the portal for consideration.

Nicolas Leblanc / Scott Basinger moved to recommend that the Administrator consider a Variance STANDATA regarding Rule 64-216 and DC arc fault protection, taking into account fire risk from vegetation; CARRIED

4.6. 2020 Meeting Dates – provide input on suggested dates

The following 2020 meeting dates were recommended and will be finalized in October:

- Monday, January 13 – 9:30 a.m.
- Monday, March 9 – 9:30 a.m.
- Monday, May 4 – 9:30 a.m.
- Monday, September 28 – 9:30 a.m.
- Monday, November 16 – 9:30 a.m.

4.7. Working Group Reports

4.7.1. AEUC

It was reported that there has been no meeting since the last ESC meeting. The next meeting is scheduled on October 22, 2019.

4.7.2. CE Code

It was reported that there has been no meeting since the last ESC meeting. The next meeting will likely be scheduled in late October or early November 2019.

Relative to the request to use C22.4 Objective Based Industrial Electrical Code (OBIEC), a meeting was held with the proponent who no longer wishes to pursue this path. This item was removed from the Working Group's action list.

4.7.3. Hazardous Locations

There was nothing new to report.

4.7.4. Master Electrician

It was reported that the next meeting is scheduled for September 30, 2019.

4.8. BSC Liaison Report

It was reported that two BSC meetings were held since the last ESC meeting. One topic for discussion that would be of interest to the ESC was Micro Breweries and Micro Distilleries.

A Joint Building / Fire Working Group was formed on this topic. It was suggested that information relative to electrical requirements may be beneficial to the Joint Working Group and the craft distillery industry. It is important that the Working Group is aware of the new CE Code requirement that hazardous area classification relative to electrical installations now require professional involvement. In some cases, this area classification isn't being done and it would be best if completed in the development stage. Adam Ghani and Nicolas Leblanc volunteered to work with the Joint Working Group to provide information from the electrical discipline.

[Ghani/Leblanc]

4.9. Administrator/AMA Report

It was reported that the following STANDATAs have been drafted and are moving through the process within AMA:

- Solar PV Rapid Shutdown and Switch Location
- Solar Action Item 5 Rapid Shutdown Equipment
- Solar Action Item 7 Racking Equipment Approval
- EV Charging
- CE Code Appendix A – IEC61508-3 and IEC 61511 Added in Error

A notice was published in July 2019 regarding Variances. An in depth discussion was held regarding variances required every time an uncertified product is used.

Nicolas Leblanc offered to develop a presentation on guidance for issuing variances in the Electrical discipline for possible inclusion at the 2020 Council Conference. [Leblanc/Council Administration]

An update was provided regarding work being done by the Standards Council of Canada to update their website to ensure that SCOs have easier access to approval markings.

4.10. Council Updates

The following report was provided:

- The AEUC Code is now available, free of charge, on the Council website
- An update was provided on upcoming training available
- Members were asked to bring forward any challenges experienced between SCOs and professionals registered by APEGA or AAA
- All sub-council members are asked to complete the online FOIP training by December 31, 2019
- ESC's recommendation of November 2017 to create a new sub-council specific to electrical transmission and distribution will be addressed by the Board at their meeting on September 20, 2019
- Work continues on the governance review, including proposed changes to streamline working group formation and processes; draft sub-council Terms of Reference are being reviewed internally before review by the sub-councils
- Working group chairs will now be asked to provide a short written report in advance of each sub-council meeting and sample templates are available
- A 'subcouncils@safetycodes.ab.ca' email has been created for all meeting invites—please continue to use direct emails for inquiries
- A member survey was sent to all sub-council members and all members were asked to complete and provide feedback
- A quarterly report of all sub-councils' key activities has been created and will be distributed to the Board and each sub-council at the end of each quarter

- Industry association meetings will be used to replace regional meetings for SCOs in construction disciplines

5. Meeting Finalization

5.1. Round Table

IEEE & IAS Electrical Safety, Technical, Maintenance, and Projects Workshop information for March 15-18, 2020 at the River Cree Resort in Edmonton was circulated and will be included in the portal. [Council Administration]

5.2. Next Meeting

The next meeting was reconfirmed for November 18, 2019 at the Council office at 9:30 a.m.

5.3. Meeting Adjournment

The meeting was adjourned at 1:30 p.m.

-- NEW ACTION ITEMS --

2.2. Matrix Review – review existing sub-council matrix to ensure it continues to appropriately represents the electrical discipline

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