



**MINUTES OF THE
FIRST ELECTRICAL SUB-COUNCIL MEETING OF 2017**

DATE: February 6, 2017

TIME: 9:00 a.m. to 1:45 p.m.

LOCATION: Radisson Hotel, Edmonton

PRESENT: *Sub-Council Members*
Gerry Wiles, Chair
Scott Basinger, Vice Chair - North
Larry DeWald
Glenn Hedderick, Vice Chair - South
Rene Leduc (until 12 noon)
Allan Nagel (until 12 noon)
Jim Porth
Stewart Purkis

Safety Codes Council
Erin Stroud, Allison Karch

Alberta Municipal Affairs
Clarence Cormier, Bob Hall, Harry Li, Paul Chang

Guests
Larry Cantelo

REGRETS: Don Bradshaw
John Briegal
Tim Driscoll
Roy Etwaroo
Adam Ghani
Charlene Smylie
Daryl Schmidt
Darcy Teichroeb

RECORDER: Sandi Orr

MEETINGS: Mondays; May 15; September 25; November 20
Edmonton

1. Meeting Opening

The Chair called the meeting to order at 9:00 a.m. and introductions were held.

1.1 Agenda Adoption

The attendance list was corrected to remove Clem Gratton.

Rene Leduc / Glenn Hedderick moved to adopt the agenda, as circulated; CARRIED

1.2. Previous Minutes

1.2.1. Adoption of November 7

Larry DeWald / Jim Porth moved to adopt the minutes of the November 7, 2016 meeting, as circulated; CARRIED

Clarification was provided regarding STANDATAs. Although the Chief Electrical Administrator typically waits until after the minutes are adopted to ensure there are no corrections needed, the Chief Administrator has the authority to publish after hearing the recommendations of the sub-council.

2. Matters for Decision

2.1. Matters for Decision

2.1.1. Request for ESC Liaison to BSC

Correspondence from the Electrical Contractors Association of Alberta regarding their request for a seat on the Building Sub-Council (BSC) was included in the agenda package. The BSC has determined that an electrical contractors seat does not fit within the BSC matrix. However, it was suggested that consideration be given by the ESC on whether there is a need for a liaison between the two sub-councils. This individual would have no voting rights on the BSC and would simply be a link between the two sub-councils on common issues.

Relative to the request, it was clarified that the decision of whether to appoint a liaison to the BSC, as well as who that liaison would be, is up to the ESC. If the ESC believes that this is critical, a motion could be made to recommend this to the BSC, but caution was expressed since the BSC is becoming very large.

It was reported that with the National Energy Codes now in force, there is a lot of overlap between the Building Code and the Electrical Code. A liaison might be helpful or perhaps an Energy Codes Working Group under the Building Sub-council might be more appropriate to involve several disciplines. During the EIAA technical conference, a presentation was given and in other provinces, Electrical SCOs are becoming more involved with the building code. An example was provided regarding the inspection of smoke alarms. The Director of Codes and Standards explained that any issue would be addressed by the registered engineering professional prior to issuing the Schedule "C" documents.

Members were reminded that the CE Code is an installation code which outlines how something is to be installed, not why it's there or how it functions. But confusion does exist because wiring methods are in the CE Code and everything else is in the Building Code and Energy Codes. There is a definite need for SCOs from both disciplines to work together.

After thorough discussion of the topic, the following decision was made:

Allan Nagel / Larry DeWald moved to request a liaison between the Electrical and Building sub-councils; CARRIED

2.2. Appointments

2.2.1. Nomination of Nicolas Leblanc

Correspondence from the nominating organization was included in the portal and reviewed.

Scott Basinger / Rene Leduc moved to recommend to the Board, the appointment of Nicolas Leblanc to the Electrical Sub Council for a term until January 31, 2020, effective immediately; CARRIED

3. Matters for Discussion

3.1. Area Classification

Correspondence was included in the portal regarding concerns with area classification in the Oil and Gas Industry and the request to make a presentation to the Oil and Gas Code Working Group. There was no objection to this presentation to be provided to the working group.

3.2. Oil & Gas Code Working Group Update

The next working group meeting will be held on April 10, 2017 in Calgary. The above presentation and about 4 or 5 issues will be discussed.

A redraft of the STANDATA CEC 19 – Code for Electrical Installations in Oil & Gas Facilities was circulated. There are drilling industry concerns and problems with the formal interpretation of retroactivity.

The draft STANDATA CEC 19 – Code for Electrical Installations in Oil & Gas Facilities will be included in the portal.

[Leduc]

Rene Leduc / Glenn Hedderick moved to support that the Chief Electrical Administrator consider publishing the STANDATA for Code for Electrical Installations at Oil and Gas Facilities, as redrafted; CARRIED

3.3. AEUC Working Group Update

The following was reported:

- Code Update Training is at the RFP stage
- AEUC Code will be in force on May 1, 2017 and it is hoped that training will be in place by then
- The next meeting is April 4, 2017

Later in the meeting, it was reported there is a significant number of questions that pertain to worker safety rules in the Group B exams. The exam questions will be reviewed and OH&S related questions will be removed.

[Porth / Lalonde / McDonagh]

3.4. Master Electrician Program Working Group Update

It was reported that a meeting is being scheduled. A brief update was provided on some of the staff changes at the Council that has created some delays.

3.5. CEC Submission – Satellite Dish Bonding

A proposed change was included in the portal. The proposal was reviewed and it was noted that it should not be a code requirement to install extra things “just in case”, as the CE Code sets minimum requirements.

Rene Leduc / Scott Basinger moved that the proposal be rejected; CARRIED

3.6. CEC Working Group (E.1.02.03)

The Working Group Chair brought forward the following recommendations from their meeting on January 13, 2017 in Red Deer:

a) CEC-067 – 2015 CEC Off Grid System

CEC-067 was considered closed until a restructured submission was received from the proponent.

b) CEC-069 – Rule 28-104

It was clarified that SCOs are currently not enforcing the code requirement because of the low current.

It was noted that Rule 28-104 states the requirement **unless the motor is marked otherwise**. Further research was conducted during the ESC meeting and it was reported that the nameplate says 90C copper conductor; therefore, the nameplate supports the rule. It was agreed that a Variance is not required.

This matter was considered closed. The Chief Electrical Administrator will inform the proponent.
[Cormier]

c) CEC-072 – Concrete Encasements for all underground duct banks

The WG recommended the following action items:

- Draft a proposed change to CE Code Part 1
- Draft a request for interpretation
- Update the STANDATA

It was suggested that any Request for Interpretation be reworded to ensure the clear ability for yes or no answers. The questions were reviewed as such.

Some discussion was held on the potential need to find a solution and propose changes to Part 1.

Scott Basinger / Glenn Hedderick moved that the Sub-council forward the first two items to CE Code Part 1 for consideration; CARRIED

The following next steps were determined:

- Scott Basinger will revise the RFI for review by the Working Group and Sub-council. [Basinger]
- The Working Group to consider drafting a Proposed Change to CEC Part 1. [Basinger]
- It was suggested that the City of Calgary be asked to help redraft the Alberta STANDATA as an interim solution for consideration. [Basinger]

d) CEC – 073 – CEC Submission Rule 26-710

It was reported that the proponent’s question was answered and the issue closed. However, this led to discussions on whether “only” 5-15R and 5-20R are allowed on or in residential buildings

The drafted Request for Interpretation was viewed on screen:

- Does the 30A receptacle in item 1 comply with the requirements of section 26 of CEC? The sub-council reached consensus that yes, if it meets the rules of other sections of the CEC.
- Does the 30A receptacle in item 2 comply with the requirements of section 26 of CEC? The sub-council reached consensus that yes, if it meets the rules of other sections of the CEC.

Consensus was reached that special purpose receptacles could be installed in residential buildings, provided they meet all relevant code articles for those types of receptacles and do not replace the required 5-15R / 5-20R receptacles.

Consensus was also agreed that no Request for Interpretation needed to be submitted and a STANDATA was not required.

The issue was considered closed and the Chair will advise the proponent of the decision. [Wiles]

e) CEC – 074 – CEC Submission Rule 46-304 & 46-400 (F.4.03.16)

The Request for Interpretation was shown on screen:

- If an exit sign is connected to two circuits, an AC normal power and a DC emergency power supply. Does rule 46-400(1) applies to the DC emergency power supply? The sub-council reached consensus of yes.
- If an exit sign is connected to two circuits, an AC normal power and a DC emergency power supply. Does rule 46-400(1) apply to the DC emergency power supply? The sub-council reached consensus of yes.
- If an exit sign is connected to the two circuits, an AC normal power and a DC emergency power supply. Is it acceptable to connect the normal power terminals to the lighting circuit in the area? Consensus could not be reached.

A brief update was provided on the discussion at the recent EIAA technical conference.

Scott Basinger / Allan Nagel moved that question 3 be submitted to CE Code Part 1 – Section 46 for a Request for Interpretation; CARRIED [Basinger / Wiles]

f) CEC-077 (#2, #3, #4 of ISSUE CEC-072) - closed

This item was merged back with CEC-072 and CEC-077 was closed.

g) CEC – 078 – Change 5000V and less (ESC F.4.01.16)

This item was merged back with CEC-072 and CEC-078 was closed.

h) CEC-079 – STANDATA – Section 18 – Hazardous Ammonia

It was reported that the working group is still reviewing this and has determined the following next steps:

- The Working Group Chair will gather more information from Tim Driscoll, along with a specific request for the change. [Basinger]
- The Working Group Chair will arrange for a hazardous location expert to assist in the review and updating of the STANDATA. [Basinger]

i) CEC – 075 – CE Code – 64-112 Submission (F.8.03.16)

The working group recommended that the following proposed change be submitted to CE Code Part 1:

- Rule 64-112(4)(d) should be worded the same as (c) (...overcurrent devices in source circuits supplying power to a busbar or conductor shall...).

It was reported that SCOs haven't been failing these so no Information Bulletin is needed in the interim.

Scott Basinger / Glenn Hedderick moved to submit the proposed change to CE Code Part 1; CARRIED
[Basinger / Wiles]

3.7. NBC References in the CEC

It was reported that although everyone understands that references to National Building Code means Alberta Building Code, it was questioned where this is documented.

The Director of Codes and Standards reported that the preamble in the National Building Code states that this is a national model code, check with your authority having jurisdiction. In Alberta's case, that would be the Alberta Building Code.

This item was for information, considered closed and will be removed from the agenda. [Karch / Wiles]

3.8. Conformity Assessment Protocol

Correspondence from the Standards Council of Canada was included in the portal as information. Larry DeWald reported that it is not believed to impact Certification Bodies or Inspection Bodies. Scott Basinger explained some of the concerns and impacts from a manufacturing perspective.

This item was for information, considered closed and will be removed from the agenda. [Karch / Wiles]

3.9. Marijuana Extraction Guidelines

The Marijuana Extraction Guidelines for Commercial / Licensed Facilitators from the Denver Fire Department was included in the portal as information.

It was clarified that in Alberta, it has already been determined that these facilities are not farm buildings and will be classified as either F1, F2 or F3 occupancies. Extraction processes will be deemed high hazard (F1).

3.10. Council Organization Changes

An overview was provided of Allison Karch’s new role with the sub-councils as well as changes in roles of other staff members:

- Director of Operations: Tyler Wightman
- Director of Corporate Strategy and Communications: Erin Stroud
- Director of Strategic Projects: Gerry Baron
- Administrator of Accreditation: Peter Thomas
- Manager of Policy and Legislation: Vacant, being filled
- Manager of Stakeholder Relations: Vacant, being filled

It was clarified that, with exception of Board meetings, all sub-council meetings are open to the public and there is a protocol for presentation at any meetings. If guests are in attendance, the sub-council can go in camera for private discussion.

3.11. Dr. Sauer Award Reminder

Members were reminded of considering submitting nominations for the Dr. Sauer Award. This award is presented at the Council Conference and any current sub-council member or retired less than 1 year can be nominated.

Members were also reminded that Electrical is the discipline being highlighted at this year’s conference. The Council is accepting sponsorship for the conference, which occurs from May 31 to June 2, 2017.

4. Meeting Finalization

4.1. Review Actions to be taken

Relative to an Information Bulletin regarding where AFCI are not required (regarding items CEC-066 and CEC-068), a draft was shown on screen. However, with lack of quorum, this items was deferred and support will be achieved through Letter Ballot. [Wiles / Karch]

	Action	Responsible	Status/Update
Sep 12, 2016	(F.4.02.16) Auto re-closures on Power Lines – AEUC WG recommended no changes with presented documentation be forwarded back to the Minister	Council Administration Stroud	Done, closed
Sep 12, 2016	(F.1.03.16) Installation of Lightning Protection Systems to be brought forward to TCC to determine where jurisdiction resides (CAN/ULC B72)	Wiles	Brought to TCC, no action determined
Sep 12, 2016	(F.2.03.16) Permits on Old Projects – to be brought forward to TCC for discussion	Wiles	Brought to TCC, no action determined

Nov 7, 2016	Continue working on a draft of a Field Approvals STANDATA for consideration.	Leduc/DeWald	In progress
Nov 7, 2016	Follow up on whether name plates are used regarding submersible pumps	Driscoll	Closed
	Issue Submersible Pumps STANDATA	Cormier	Done, Closed
Nov 7, 2016	Bring discussion of OHS/Worker Safety Rules to AEUC Working Group	Purkis	In progress
Nov 7, 2016	Discuss proposal for STANDATA regarding Rule # 19-104 & Diagram B3 at Oil & Gas Code working group and bring a recommendation back to the sub-council	Driscoll	In progress
Nov 7, 2016	Consider issuing an Information Bulletin regarding where AFCI are not required (regarding items CEC-066 and CEC-068)	Cormier	Will be addressed by Letter Ballot
Nov 7, 2016	Ask proponent for additional information regarding CEC-070	Basinger	On agenda, Closed
Nov 7, 2016	Gather information from Calgary for the drafting of a submission to CE Code Part 1 for consideration of the sub-council regarding CEC-072	Basinger	On agenda, Closed
Nov 7, 2016	Send the submission regarding CEC-073 to Part 1 for clarification.	Wiles	On agenda, Closed
Nov 7, 2016	Discuss CEC-074 at the CEC Working Group and bring a recommendation back to the sub-council.	Basinger	Closed
Nov 7, 2016	Develop a proposed change for CE Code Part 1 and bring back to the sub-council for consideration (CEC-075)	Basinger	Closed
Nov 7, 2016	CEC-077 still being reviewed by CEC working group	Basinger	Closed
Nov 7, 2016	Provide further information about where Electrical SCOs might inspect Building Code items to the Manager of Stakeholder Relations to be forwarded to the Building Sub-Council.	Bradshaw	In progress
Nov 7, 2016	Section 18 STANDATA regarding references to hazardous ammonia is referred to the CEC working group.	Basinger	In progress

4.2. Meeting and Agenda Feedback

Concern was expressed regarding the lack of participation at today's meeting and it was questioned whether a central location may be more suitable. It was clarified that budget is the overriding concern and the Council is always looking for more cost efficiency. If Red Deer was determined as the central location, this could limit support from AMA and Council Administration. Teleconferencing is an option for those that cannot participate in person, but it was preferred that this not become the norm.

The Council will investigate the feasibility of Go-To Meeting conference calling for the May meeting.

[Karch / Stroud]

A brief update was provided of course development in other disciplines.

A brief update was provided on the harmonization of Alberta Building and Fire Codes with National Model Codes.

4.3 2017 Meetings

The 2017 meeting schedule was reconfirmed as follows, with all meetings taking place in Edmonton:

- Monday, May 15
- Monday, September 25
- Monday, November 20

4.4 Meeting Adjournment

The meeting was adjourned at 1:53 p.m.

-- NEW ACTION ITEMS --

3.2. Oil & Gas Code Working Group Update

The draft CEC 19 – Code for Electrical Installations in Oil & Gas Facilities will be included in the portal. [Leduc]

3.3. AEUC Working Group Update

Later in the meeting, it was reported there is a significant number of questions that pertain to worker safety rules in the Group B exams. The exam questions will be reviewed. [Porth / Lalonde / McDonagh]

3.6 b) CEC-069 – Rule 28-104

This matter was considered closed. The Chief Electrical Administrator will inform the proponent. [Cormier]

3.6 c) CEC-072 – Concrete Encasements for all underground duct banks

The following next steps were determined:

- Scott Basinger will revise the RFI for review by the Working Group and Sub-council. [Basinger]
- The Working Group to consider drafting a Proposed Change to CEC Part 1. [Basinger]
- It was suggested that the City of Calgary be asked to help redraft the Alberta STANDATA as an interim solution for consideration. [Basinger]

3.6 d) CEC – 073 – CEC Submission Rule 26-710

The issue was considered closed and the Chair will advise the proponent of the decision. [Wiles]

3.6 e) CEC – 074 – CEC Submission Rule 46-304 & 46-400 (F.4.03.16)

Question 3 be submitted to CE Code Part 1 – Section 46 for a Request for Interpretation. [Basinger / Wiles]

3.6 h) CEC-079 – STANDATA – Section 18 – Hazardous Ammonia

It was reported that the working group is still reviewing this and has determined the following next steps:

- The Working Group Chair will gather more information from Tim Driscoll, along with a specific request for the change. [Basinger]
- The Working Group Chair will arrange for a hazardous location expert to assist in the review and updating of the STANDATA. [Basinger]

3.6 i) CEC – 075 – CE Code – 64-112 Submission (F.8.03.16)

Submit the proposed change to CE Code Part 1. [Basinger / Wiles]

3.7. NBC References in the CEC

This item was for information, considered closed and will be removed from the agenda. [Karch / Wiles]

3.8. Conformity Assessment Protocol

This item was for information, considered closed and will be removed from the agenda. [Karch / Wiles]

4.1. Review Actions to be taken

Relative to an Information Bulletin regarding where AFCI are not required (regarding items CEC-066 and CEC-068), a draft was shown on screen. However, with lack of quorum, this items was deferred and support will be achieved through Letter Ballot. [Wiles / Karch]

4.2. Meeting and Agenda Feedback

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-- MOTIONS --

1.1 Agenda Adoption

Rene Leduc / Glenn Hedderick moved to adopt the agenda, as circulated; CARRIED

1.2.1. Adoption of November 7

Larry DeWald / Jim Porth moved to adopt the minutes of the November 7, 2016 meeting, as circulated; CARRIED

2.1.1. Request for ESC Liaison to BSC

Allan Nagel / Larry DeWald moved to request a liaison between the Electrical and Building sub-councils; CARRIED

2.2.1. Nomination of Nicolas Leblanc

Scott Basinger / Rene Leduc moved to recommend to the Board, the appointment of Nicolas Leblanc to the Electrical Sub Council for a term until January 31, 2020, effective immediately; CARRIED

3.2. Oil & Gas Code Working Group Update

Rene Leduc / Glenn Hedderick moved to support that the Chief Electrical Administrator consider publishing the STANDATA for Code for Electrical Installations at Oil and Gas Facilities, as redrafted; CARRIED

3.5. CEC Submission – Satellite Dish Bonding

Rene Leduc / Scott Basinger moved that the proposal be rejected; CARRIED

3.6 c) CEC-072 – Concrete Encasements for all underground duct banks

Scott Basinger / Glenn Hedderick moved that the Sub-council ask the two series of questions to CE Code Part 1 for interpretation; CARRIED

3.6 d) CEC – 074 – CEC Submission Rule 46-304 & 46-400 (F.4.03.16)

Scott Basinger / Allan Nagel moved that question 3 be submitted to CE Code Part 1 – Section 46 for a Request for Interpretation; CARRIED

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