



**MINUTES OF THE
FIRST ELECTRICAL SUB-COUNCIL MEETING OF 2018**

DATE: February 5, 2018

TIME: 9:00 a.m. to 3:05 p.m.

LOCATION: Radisson Hotel, Edmonton

PRESENT: *Sub-Council Members*
Gerry Wiles, Chair
John Briegel
Larry DeWald
Tim Driscoll
Adam Ghani
Glenn Hedderick, Vice Chair - South
Ken Hood
Nicolas LeBlanc
Allan Nagel
Stewart Purkis
Charlene Smylie
Darcy Teichroeb
Barry Voogd

Safety Codes Council
Allison Karch, Celia McDonagh, Danielle Paradis, Yvonne Wille

Alberta Municipal Affairs
Clarence Cormier, Electrical Administrator, Bob Hall, Liz Gillean, Sidney Manning

REGRETS: Scott Basinger, Vice Chair - North
Don Bradshaw
Roy Etwaroo
Brian Townsend

GUESTS: Gordon Howell, Howell Mayhew Engineering
Clifton Lofthaug, Great Canadian Solar
David Vonesch, SkyFire Energy Inc.
Jeremy Day, Fronius Canada Ltd.
Juan Monterrosa, City of Edmonton

RECORDER: Sandi Orr

2018 MEETINGS: May 7, September 17, November 5

1. Meeting Opening

The Chair called the meeting to order at 9:00 a.m. and provided housekeeping information. Participants 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. A round table introduction was held.

1.1 Agenda Adoption

The agenda was included in the portal and reviewed. The following item was added to the agenda:

- 4.2.1. – Power Over Ethernet (POE)

Glenn Hedderick / Adam Ghani moved to adopt the agenda, as amended, with a flexible order of business; CARRIED

1.2. Previous Minutes

1.2.1. Adoption of November 20, 2017 Minutes

The first sentence of the second paragraph under 4.3. was corrected to read: It was reported that work is being done by ICHL but it is anticipated to be quite some time before anything comes forward.

Larry DeWald / John Briegel moved to adopt the minutes of the November 20, 2017 meeting, as corrected CARRIED

2. Matters for Decision

2.1. Electrical Code Amendment Regulation

The redrafted Electrical Code Amendment Regulation was included in the portal and reviewed. It was reported that the changes are primarily related to:

- 2 editorial amendments, and
- Removal of the Code for Electrical Installations at Oil and Gas Facilities

Tim Driscoll / Nicolas LeBlanc moved to recommend to the Minister through the Technical Coordinating Committee and the Board, the adoption of the Electrical Code Amendment Regulation and to waive the 90-day review period; CARRIED

2.2. Appointments

2.2.1. Reappointment of John Briegel to represent Labour for a term ending January 31, 2021

Correspondence was included in the portal and reviewed.

Glenn Hedderick / Larry DeWald moved to recommend to the Board, the reappointment of John Briegal to the Electrical Sub-Council representing the Labour industry segment, for a term until January 31, 2021, effective immediately; CARRIED

2.2.2. Reappointment of Gerry Wiles to represent Large Municipalities for a term ending January 31, 2021

Vice Chair Glenn Hedderick chaired this agenda item. Correspondence was included in the portal and reviewed.

John Briegal / Larry DeWald moved to recommend to the Board, the reappointment of Gerry Wiles to the Electrical Sub-Council representing the Large Municipalities industry segment, for a term until January 31, 2021, effective immediately; CARRIED

2.2.3. Reappointment of Glenn Hedderick to represent Education and Training for a term ending January 31, 2021

Correspondence was included in the portal and reviewed.

Charlene Smylie / Nicolas LeBlanc moved to recommend to the Board, the reappointment of Glenn Hedderick to the Electrical Sub-Council representing the Education and Training industry segment, for a term until January 31, 2021, effective immediately; CARRIED

2.2.4. Reappointment of Scott Basinger to represent Electrical Manufacturers for a term ending January 31, 2021

Correspondence was included in the portal and reviewed.

Glenn Hedderick / Larry DeWald moved to recommend to the Board, the reappointment of Scott Basinger to the Electrical Sub-Council representing the Electrical Manufacturers industry segment, for a term until January 31, 2021, effective immediately; CARRIED

2.3. Master Electricians Working Group Terms of Reference

The redrafted Terms of Reference was included in the portal and the changes were explained. Clarification was provided regarding the minimum number of meetings required of working groups.

Darcy Teichroeb / Nicolas LeBlanc moved to approve the redrafted Master Electricians Working Group Terms of Reference, as circulated; CARRIED

2.4. Master Electricians Program Outline

The redrafted Master Electricians Program Outline, Objectives and Outcomes was included in the portal and reviewed. An explanation was provided of the proposed changes.

It was questioned regarding CSA-Z462 and it was explained that this must be included if Master Electricians are going to be tested on it. It was further questioned whether this might be an OH&S issue and whether it belongs in the Master Electricians Outline. It was emphasized that it is believed critical to provide training on CSA-Z462, particularly to Master Electricians. It was further noted that all apprentices take Arc Flash training in the fourth year and CSA-Z462 is introduced. It was noted that the cost of CSA-Z462 was a concern and whether the excerpt provided to apprentices could be used for developing the Masters' exam questions. It was suggested there may be copyright issues.

It was suggested that the topic of how to address CSA-Z462 be sent back to the Master Electricians Working Group for further discussion but, in the meantime, it was requested that the document be approved.

The floor was opened for further questions and the following additional feedback was provided:

- In Objective 9's rationale, maximizing equipment life expectancy is listed but there isn't a corresponding item listed under Outcomes. It was agreed that something would be included in the Outcomes regarding proper maintenance. [Working Group]
- In Objective 10, it was agreed that conductor insulation ratings will be added to the Outcomes. [Working Group]

Darcy Teichroeb / Ken Hood moved to approve the Master Electricians Program Outline as amended to include revisions to Objectives 9 and 10 and minor revisions to the reference relative to CSA-Z462; CARRIED

3. Review Matters Arising/Action List

Date	Action	Responsible	Status/Update
Nov 7, 2016	Provide further information about where Electrical SCOs might inspect Building Code items to the Electrical Sub-Council Liaison to be forwarded to the Building Sub-Council.	Bradshaw	Deferred
Nov 7, 2016	Section 18 STANDATA regarding references to hazardous ammonia is referred to the Oil & Gas Code working group.	Driscoll	In progress
Feb 6, 2017	Regarding CE Code-072 – Concrete Encasements: <ul style="list-style-type: none">• revise the RFI for review by the working group and sub-council.	Basinger	Deferred

Date	Action	Responsible	Status/Update
	<ul style="list-style-type: none"> Working group to consider drafting a Proposed Change to CE Code Part 1 City of Calgary may be asked to help redraft the Alberta STANDATA as an interim solution for consideration. 		
Feb 6, 2017	Investigate the feasibility of using GoTo Meeting for future meetings UPDATE: With the office relocation, new technology for remote meeting access is being worked on.	Karch	This item was considered closed and removed from action list.
May 15, 2017	Conduct further research and bring forward any recommendations from the colleges, education institutes and AIT regarding the in-force date of the 2018 CE Code. AMA could investigate with AIT to ensure that this does not create non-compliance with the Act. UPDATE: Update from meeting with AIT and Education Institute – Apprentices will start using the new codes in September 2019 and Master Electricians students will begin using the new codes in January 2019.	Hedderick	This item was considered closed and removed from action list.
May 15, 2017	Revise the existing terms of reference for the Oil & Gas Code Working Group with the mandate to specifically cover subjects related to hazardous locations, Sections 18, 20 and 22 and Appendices F, H, J and L of the CE Code. UPDATE: The Working Group Chair has provided feedback on the Terms of Reference for consideration.	Driscoll/Council Administration	Redraft in progress
Sept 25, 2017	AEUC working group to compile a complete review of processes throughout the province re. Street Lighting and Traffic Control Infrastructure and will report back to ESC with recommendations within 6 months. UPDATE: Survey being done	Purkis	In progress
Sept 25, 2017	AEUC Working Group to review Near Miss Reporting – Switching Incidents and make recommendation to ESC UPDATE: Deemed an OH&S worker safety issue and outside of the scope of ESC	Purkis	This item was considered closed and removed from action list.
Sept 25, 2017	Follow up on the Council Code of Conduct to ensure it aligns with CSA copyright agreement and signed by working group members	Council Administration	Completed, remove from action list.

Date	Action	Responsible	Status/Update
Nov 20, 2017	The Manager of Training was asked to provide further information about the future of approved external courses and whether other online courses would be permitted in the future to Glenn Hedderick.	McDonagh	Completed, remove from action list.
Nov 20, 2017	Provide further feedback on draft Field Approvals STANDATA	Driscoll	In progress
Nov 20, 2017	Defer draft Field Approvals STANDATA discussion pending further review by the certification bodies.	DeWald	Feedback from Certification Body received, remove from action list.
Nov 20, 2017	Consider including all pictograms of certification marks and special inspection labels that are acceptable for use in Alberta, updated annually, include the applicable Standards Council of Canada links, along with including information about Recognized Component marks and the limitations on their use. UPDATE: It was noted that this is occurring in all disciplines. If the matter is to be reopened, it should be escalated to the TCC. NEW ACTION: The Chair will bring this matter forward to the TCC.	Wiles	New action item
Nov 20, 2017	Provide more information to AMA Policy & Central Operations Section regarding the removal of the Oil & Gas Code	Driscoll / Robertson	Completed, remove from action list.

4. Matters for Discussion

4.1. String Inverters in Solar PV systems and CE Code Rules 64-216 and 64-201(5)

Glenn Hedderick, Vice Chair – South chaired the entire discussion regarding solar installations. The following information was included in the portal:

- Ontario Electrical Safety Authority Presentation
- Correspondence from David Vonesch, SkyFire Energy Inc.
- Safety Risks & Solutions in PV Systems for North America by SolarEdge
- NREL/SR-5200-60660 Low Cost Arc Fault Detection and Protection for PV Systems Report
- NREL/PR-5J00-67174 - Progress & Frontiers in PV Performance
- Submission from Great Canadian Solar
- Submission from SkyFire Energy

Gordon Howell, Howell Mayhew Engineering, was welcomed to the meeting and provided an in-depth presentation regarding the issue. Although the matter was referred to the CE Code

Working Group and a recommendation was brought back to this Sub-Council, it is believed their recommendation was inaccurate.

It was requested that an Information Bulletin STANDATA be issued to clarify Rule 64-210(5) based on the information provided in the presentation.

4.1.1. Submission re. Rule 64-210(5) from Great Canadian Solar

Clifton Lofthaug, Great Canadian Solar, presented the Great Canadian Solar submission requesting that a deviation process be enacted comparable to the Ontario's Electrical Safety Authority's allowing the requirement of rodent protection to be waived on rooftop systems that meet certain criteria.

The floor was opened for questions and clarification was provided. It was recognized that Rule 64-210(5) is clear when the protection is not located at the module. It was reported that a submission has not been sent to Section 64 and the Handbook for the 2018 Code has not been looked at. It was reported that in Ontario, the squirrel problem is believed to be strictly a residential one.

4.1.2. Submission re. Rule 64-210(5) from SkyFire Energy Inc.

The submission from SkyFire Energy Inc. was included in the portal. David Vonesch, SkyFire Energy Inc. was welcomed to the meeting and presented his submission for consideration.

It was requested that the sub-council review the SolarEdge DC optimized inverter system for compliance with Rule 64-210(5) and determine that SolarEdge systems provide arc-fault protection located at the module and therefore do not require mechanical rodent protection.

It was noted that the optimizer is always within a foot of the module itself. The floor was opened for questions to gather further clarification.

4.1.3. Arc Fault Protection for Solar (PV) Information

A submission regarding Arc Fault Protection or Solar (PV) from Bert De Bruin, a member of the CE Code Working Group, was included in the portal as information.

4.1.4. Bonding PV Array Bonding Configuration

A presentation was also provided by Gordon Howell regarding bonding configuration. Highlights included:

- Grid dependent converters
- Inverter wiring termination section
- An overview was provided of the racking system and baskets
- Certificate of compliance for the racking system showing it is certified for use in Canada

- Bonding configuration primarily consists of multiple bonding paths, with a bonding jumper to meet CE Code Rule 64-222
- An Operational Management Plan was developed to include the requirement that a temporary bonding jumper is needed to be installed if removing more than one modules in accordance with the Temporary Bonding Procedures

It was requested that an Information Bulletin STANDATA be issued to clarify Rule 64-222 based on the information provided in the presentation.

John Briegel / Adam Ghani moved that discussion be held in camera; CARRIED

Gerry Wiles / Allan Nagel moved to return the meeting from being in camera; CARRIED

Ken Hood / Allan Nagel moved to refer the matter to the CE Code Working Group with industry invited to present each of the concerns presented at today's meeting so that the Working Group can provide a recommendation to the Electrical Sub-Council; CARRIED [Basinger]

It was recognized that if solar issues become too great for the CE Code Working Group, there may be a need for the ESC to consider a Renewables Working Group. It was questioned by the proponents regarding timing and noted that the Working Group plans to meet later this month. It was also agreed that the Working Group's recommendation could be addressed by the ESC through letter ballot rather than having to wait until the May 2018 meeting. It was also clarified that all items presented today regarding solar installations are being forwarded to the Working Group.

4.2. Electrical Code Update Training

The Manager of Training and the Administrator of Certification were welcomed to the meeting and requested clarification regarding Code Update Training, whether the training should be mandatory and whether verification of learning is required through examination.

It was questioned regarding whether external courses could be approved ahead of the code being in force. It was clarified that this is possible, provided that the CSA course is available to compare for equivalency.

Gerry Wiles passed the Chair to Vice Chair Glenn Hedderick for the remainder of this agenda item to address the topic.

It was recommended that a decision be made that code update training always be mandatory when there is a new code and that a self-quiz also be required to verify learning, so this topic does not have to be addressed by the sub-council each time a new CE Code is adopted. It was clarified that CSA will add province-specific requirements to their training if requested.

Gerry Wiles / Charlene Smylie moved that each time a new Canadian Electrical Code is published, that CSA code update training, or equivalent, will be mandatory for all Electrical Group A SCOs including a self-assessment, and that this training must be completed within 18 months of the code being published, in order to maintain SCO certification; CARRIED

4.2.1. Power Over Ethernet (POE)

Vice Chair Glenn Hedderick chaired the agenda item.

Gerry Wiles brought forward a submission from Michael Chledowski, President of EIAA requesting the sub-council adopt the section of the 2018 CE Code relative to the installation of Power Over Ethernet(POE) through the issuance of a province-wide variance. It was explained that there is a significant increase in the use of low voltage wiring used for lighting and the current code does not address this.

A proponent submitted a request to the EIAA for clarification as it was believed it was still classified as communications and exempt from permits. The EIAA ruled that a permit is required, because the Permit Regulation 8(2)(d)(iv) states that if the Class 2, Category 6 cabling is used for *lighting*, a permit is required. Although it was initially suggested that a path be considered for communications installers to take out permits for this work, it was strongly discouraged by several ESC members. It was believed it should remain with the Master Electrician.

Gerry Wiles / John Briegel moved to refer the matter to the CE Code Working Group to review the submission and provide recommendation back to the sub-council; CARRIED [Basinger]

4.3. Master Electricians Program Working Group Report

It was reported the next meeting is scheduled for February 26, 2018. There was nothing additional to bring forward.

4.4. Oil & Gas Code Working Group Report

It was reported that the Terms of Reference is being revised.

Wellhead Process Sealing was addressed as a separate agenda item.

It was questioned regarding Rule 18-004 and the Technical Administrator agreed to issue an interpretation regarding Qualified Persons for the purpose of Rule 18-004. [Cormier]

It was noted that there is a need for the Oil & Gas Code references to be removed from OH&S regulations.

Tim Driscoll / Glenn Hedderick moved to recommend that OH&S strike the exception regarding the Oil and Gas Code upon the in-force date of the Electrical Code Regulation Amendment,

through the Council and the Electrical Sub-Council Chair; CARRIED

[Council Administrator / Wiles]

4.5. AEUC Working Group Report

The Working Group Chair reported the next meeting is April 17, 2018. A survey is currently underway regarding street lighting.

It was questioned regarding whether there was any response to the correspondence to OH&S and the Council will follow up. [Council Administration]

4.6. CE Code Working Group Report

There was no report available.

4.7. Field Approvals (E.14.01.16)

The following documents were included in the portal:

- 450-CEC-2rev-9-Jan2016 current STANDATA
- 450-CEC-2rev-10-Sep2017 proposed changes
- Buildings Codes STANDATA - CSA-A277-16 Procedure for certification of prefabricated buildings, modules, and panels
- CE Code Submission - 2-100 Marking Skids
- Notes / comments
- Emails relative to Draft Alberta STANDATA for assemblies

Tim Driscoll / Glenn Hedderick moved to recommend that the documentation be referred back to the CE Code Working Group for a recommendation; CARRIED [Basinger]

It was recognized that CE Code Submission - 2-100 Marking Skids was a separate issue. The redrafted submission was shown on screen and an overview was provided of the changes since the original submission (Add “wired” to read Hazardous Area Wired Information).

The revised submission will be added to the portal. [Driscoll / Council Administration]

Tim Driscoll / Glenn Hedderick moved to accept the revised submission; CARRIED

4.8. Demarcation for services between CE Code, Part 1 and AEUC

Vice Chair Glenn Hedderick chaired this agenda item.

Gerry Wiles explained some of the issues regarding the demarcation point. It was recommended that the issue be sent to the CE Code & AEUC Working Groups.

The Administrator reported that there is a portion in the 2015 Handbook regarding demarcation and if that list is agreed to by all, the matter could easily be resolved. It was also emphasized that the matter is addressed under the Municipal Government Act.

Gerry Wiles / Stewart Purkis moved to refer the issue regarding clarification of the demarcation point to the CE Code & AEUC Working Groups; CARRIED [Basinger]

4.9. Building STANDATA 14-BCV-012 Oil and Gas Processing Facilities

The following documents were included in the portal:

- Building Code STANDATA Variance - Oil and gas processing facilities
- Building Code STANDATA Variance - Oil, gas, and petrochemical processing facilities
- Comments on existing STANDATA

It was reported that the Association of Accredited Corporation of Alberta's feedback was not considered. Allison Karch explained that she was not aware of any concerns from AACA brought to the Building Sub-Council. It was also suggested there are sections that are applicable to the Electrical discipline that would require permits.

The Council and Tim Driscoll will research to whom the feedback from the Association of Accredited Corporation of Alberta was sent. [Council Administration / Driscoll]

Tim Driscoll / John Briegel moved to forward the proposed changes to the STANDATA to the Building Sub-Council and Building Administrator for consideration; CARRIED

4.10. Wellhead Process Sealing (proposed addition to STANDATA for CE Code Section 18)

A proposed addition to the Section 18 STANDATA regarding Rule 18-070 Flammable fluid seals was included in the portal. An in-depth explanation of the wording was provided. It was questioned whether there are any products on the market that could meet this requirement. It was suggested that for cable there are approved products, but there was uncertainty relative to fibre. However, it was noted that there are engineered solutions. It was also clarified that this is only an Information Bulletin.

Tim Driscoll / Nicolas LeBlanc moved to recommend requesting that the Electrical Administrator consider the addition to the Section 18 STANDATA; CARRIED [Cormier]

4.11. Medium Voltage Terminations

An email from Duane Leschert of Worley Parsons regarding medium voltage termination kits was included in the portal.

Neither vendor has a CSA certified product and there is no certification program or standard for this product. Manufacturers advise they are made to IEEE 48. The lugs are certified, the cable glands are certified, but the actual “stress cone” kits are not.

Nicolas LeBlanc / Glenn Hedderick moved to forward the issue to the CE Code Working Group;
CARRIED [Basinger]

4.12. Council Updates

Application forms for the Dr. Sauer, Certification and Accreditation awards are now available in the portal. Nominations are open until March 30, 2018.

Effective Meetings Training and Appeals Training workshops are scheduled for April 11-12 and October 17-18, 2018.

Members were reminded that if they are asked by other groups to speak on behalf of the work of sub-council, please inform the Council. Assistance with presentations is available.

4.13. BSC Liaison Report

The Chair reported on his participation at the first meeting of the Building Sub-Council as the new liaison and his request to bring forward issues that could jointly be addressed.

The Administrator clarified that joint STANDATAs are when the item is referenced in more than one code but that the other sub-councils could accept feedback from the electrical discipline. This led to a discussion regarding an Electrical SCO not being able to enforce something in the Building Code and it was clarified that an SCO can only address an issue for the code they are responsible for enforcing. An Electrical SCO could report issues pertaining to the Building Code to a Building SCO.

The following issues were brought forward for discussion with the Building Sub-Council:

- Oil & Gas STANDATA
- Issues relative to pot lights because of the energy code

In addition to the above items, the Chair will have a discussion with Don Bradshaw on whether he has additional items to bring forward. [Wiles]

5. Meeting Finalization

5.1. Meeting and Agenda Feedback

The Administrator reported that the STANDATA regarding wireless switches has been reviewed by the Executive and will likely be published by Wednesday.

5.2. Next Meeting

The next meeting was reconfirmed for Monday, May 7, 2018 at 9:00 a.m. in Edmonton.

5.2.1. 2018 Conference & AGM

The 2018 AGM and Conference will be held from May 30 to June 1, 2018 at the Rimrock Hotel in Banff.

5.3. Meeting Adjournment

Glenn Hedderick / Stewart Purkis moved that the meeting be adjourned; CARRIED

The meeting was adjourned at 3:05 p.m.

-- NEW ACTION ITEMS --

2.4. Master Electrician Program Outline

In Objective 9's rationale, maximizing equipment life expectancy is listed but there is nothing included in the Outcomes. It was agreed that something would be included in the Outcomes regarding proper maintenance. [Working Group]

In Objective 10, it was agreed that conductor insulation ratings will be added to the Outcomes. [Working Group]

4.1.1. Submission re. Rule 64-210(5) from Great Canadian Solar

4.1.2. Submission re. Rule 64-210(5) from SkyFire Energy Inc.

4.1.3. Arc Fault Protection for Solar (PV) Information

4.1.4. Bonding PV Array Bonding Configuration

Refer the matter to the CE Code Working Group with industry invited to present each of the concerns presented at today's meeting so that the CE Code Working Group can provide a recommendation to the Electrical Sub-Council. [Basinger]

4.2.1. Power Over Ethernet (POE)

Refer the matter to the CE Code Working Group to review the submission and provide recommendation back to the sub-council. [Basinger]

4.4. Oil & Gas Code Working Group Report

It was questioned regarding Rule 18-004 and the Administrator agreed to issue an interpretation regarding Qualified Persons for the purpose of Rule 18-004. [Cormier]

Correspond with OH&S to strike the exception regarding Oil and Gas upon the in-force date of the Electrical Regulation Amendment, through the Council and the Electrical Sub-Council Chair. [Council Administrator / Wiles]

4.5. AEUC Working Group Report

It was questioned regarding whether there was any response to the correspondence to OH&S and the Council will follow up. [Council Administration]

4.7. Field Approvals (E.14.01.16)

Documentation be referred back to the CE Code Working Group for a recommendation. [Basinger]

The revised submission will be added to the portal. [Driscoll / Council Administration]

4.8. Demarcation for services between Part 1 and Part 2

Refer the issue regarding clarification of the demarcation point to the CE Code working group.
[Basinger]

4.9. Building STANDATA 14-BCV-012 Oil and Gas Processing Facilities

The Council and Tim Driscoll will research what happened to the feedback from the Association of Accredited Corporation of Alberta.
[Council Administration / Driscoll]

4.10. Wellhead Process Sealing (proposed addition to STANDATA for CE Code Section 18)

Request that the Electrical Administrator consider the addition to the Section 18 STANDATA.
[Cormier]

4.11. Medium Voltage Terminations

Forward the issue to the CE Code Working Group. [Basinger]

4.13. BSC Liaison Report

In addition to the above items, the Chair will have a discussion with Don Bradshaw on whether he has additional items to bring forward. [Wiles]

-- MOTIONS --

1.1 Agenda Adoption

Glenn Hedderick / Adam Ghani moved to adopt the agenda, as amended, with a flexible order of business; CARRIED

1.2. Previous Minutes

1.2.1. Adoption of November 20, 2017 Minutes

Larry DeWald / John Briegel moved to adopt the minutes of the November 20, 2017 meeting, as corrected CARRIED

2.1. Electrical Code Amendment Regulation

Tim Driscoll / Nicolas LeBlanc moved to recommend to the Minister through the Technical Coordinating Committee and the Board, the adoption of the Electrical Code Amendment Regulation and to waive the 90-day review period; CARRIED

2.2.1. Reappointment of John Briegel to represent Labour for a term ending January 31, 2021

Glenn Hedderick / Larry DeWald moved to recommend to the Board, the reappointment of John Briegel to the Electrical Sub-Council representing the Labour industry segment, for a term until January 31, 2021, effective immediately; CARRIED

2.2.2. Reappointment of Gerry Wiles to represent Large Municipalities for a term ending January 31, 2021

John Briegal / Larry DeWald moved to recommend to the Board, the reappointment of Gerry Wiles to the Electrical Sub-Council representing the Large Municipalities industry segment, for a term until January 31, 2021, effective immediately; CARRIED

2.2.3. Reappointment of Glenn Hedderick to represent Education and Training for a term ending January 31, 2021

Charlene Smylie / Nicolas LeBlanc moved to recommend to the Board, the reappointment of Glenn Hedderick to the Electrical Sub-Council representing the Education and Training industry segment, for a term until January 31, 2021, effective immediately; CARRIED

2.2.4. Reappointment of Scott Basinger to represent Electrical Manufacturers for a term ending January 31, 2021

Glenn Hedderick / Larry DeWald moved to recommend to the Board, the reappointment of Scott Basinger to the Electrical Sub-Council representing the Electrical Manufacturers industry segment, for a term until January 31, 2021, effective immediately; CARRIED

2.3. Master Electrician Working Group Terms of Reference

Darcy Teichroeb / Nicolas LeBlanc moved to approve the redrafted Master Electricians Working Group Terms of Reference, as circulated; CARRIED

2.4. Master Electrician Program Outline

Darcy Teichroeb / Ken Hood moved to approve the Master Electrician Program Outline as amended to include revisions to Objectives 9 and 10 and minor revisions to the reference relative to CSA-Z462; CARRIED

4.1.1. Submission re. Rule 64-210(5) from Great Canadian Solar

4.1.2. Submission re. Rule 64-210(5) from SkyFire Energy Inc.

4.1.3. Arc Fault Protection for Solar (PV) Information

4.1.4. Bonding PV Array Bonding Configuration

John Briegel / Adam Ghani moved that discussion be held in camera; CARRIED

Gerry Wiles / Allan Nagel moved to return the meeting from being in camera; CARRIED

Ken Hood / Allan Nagel moved to refer the matter to the CE Code Working Group with industry invited to present each of the concerns presented at today's meeting so that the CE Code Working Group can provide a recommendation to the Electrical Sub-Council; CARRIED

4.2. Electrical Code Update Training

Gerry Wiles / Charlene Smylie moved that each time a new Canadian Electrical Code is published, that CSA code update training, or equivalent, will be mandatory for all Electrical Group A SCOs including a self-assessment, and that this training must be completed within 18 months of the code being published, in order to maintain their SCO certification; CARRIED

4.2.1. Power Over Internet (POE)

Gerry Wiles / John Briegel moved to refer the matter to the CE Code Working Group to review the submission and provide recommendation back to the sub-council; CARRIED

4.4. Oil & Gas Code Working Group Report

Tim Driscoll / Glenn Hedderick moved to recommend that OH&S strike the exception regarding Oil and Gas upon the in-force date of the Electrical Regulation Amendment, through the Council and the Electrical Sub-Council Chair; CARRIED

4.7. Field Approvals (E.14.01.16)

Tim Driscoll / Glenn Hedderick moved to recommend that the documentation be referred back to the CE Code Working Group for a recommendation; CARRIED

Tim Driscoll / Glenn Hedderick moved to accept the revised submission; CARRIED

4.8. Demarcation for services between Part 1 and Part 2

Gerry Wiles / Stewart Purkis moved to refer the issue regarding clarification of the demarcation point to the CE Code working group; CARRIED

4.9. Building STANDATA 14-BCV-012 Oil and Gas Processing Facilities

Tim Driscoll / John Briegel moved to forward the proposed changes to the STANDATA to the Building Sub-Council and Building Administrator for consideration; CARRIED

4.10. Wellhead Process Sealing (proposed addition to STANDATA for CE Code Section 18)

Tim Driscoll / Nicolas LeBlanc moved to recommend requesting that the Electrical Administrator consider the addition to the Section 18 STANDATA; CARRIED

4.11. Medium Voltage Terminations

Nicolas LeBlanc / Glenn Hedderick moved to forward the issue to the CE Code Working Group; CARRIED

5.3. Meeting Adjournment

Glenn Hedderick / Stewart Purkis moved that the meeting be adjourned; CARRIED