

**MINUTES OF THE ANNUAL TECHNICAL CONFERENCE
February 11 & 12, 2022**

DAY ONE – February 11, 2022

1. CALL TO ORDER AND CHAIRMAN’S ADDRESS

The meeting was called to order by the Conference Chairman, Larry Cantelo, at 8:00 am. The Chairman welcomed all delegates and guests to the 26th Annual Technical Conference of the Electrical Inspectors Association of Alberta (EIAA). He explained that this conference is being attended live as well as on-line through Zoom.

Thanks went out to the Safety Codes Council and the Electrical Contractors Association of Alberta, for their support of the conference. Vendor tables were mentioned and thanked. The format of the conference has changed in that the first day is the traditional conference agenda, and the second day is for training. AGM will take place virtually in March.

Larry mentioned that this is his last year as Conference Chair and thanked the group for their support.

Don Ursuliak, President, welcomed everyone and thanked the Education Committee for their work. He explained there are two positions open to be filled at the AGM – the Conference Chair (unelected) and Secretary of the EIAA (elected).

2. AGENDA ITEMS

2022-01:

Submitted by: Don Bradshaw

Code or regulation number: Three new rules in the 2021 Canadian Electrical Code for this discussion.

6-206(1) c) v) requires service boxes or other consumer service equipment to not be installed below the flood elevation.

26-652 requires each branch circuit below ground level in areas designated as flood hazard zones to have Ground Fault Protection.

26-712 Sump Pump receptacles:

- a) Located above the flood elevation; or
- b) Marked as suitable for submersion.

Background information was included in the conference package.

Question/Enquiry: Do these rules apply in our jurisdiction?

Decision: Yes, these rules do apply in our jurisdiction since they are in the adopted code book.

Question/Enquiry: How are you defining what is a flood hazard zone in your jurisdiction?

Response: City of Calgary has a flood map on their website. Most municipalities do not. The Alberta Floods Portal website (<https://floods.alberta.ca>) has the most information. This is a work in progress and access to information will improve.

Question/Enquiry: What equipment needs to be above the flood plain?

Response: Service equipment cannot be below flood elevation. The intent is to allow for effective and safe disconnection of the service during a flood event and is intended to prevent flood water from affecting access to service disconnecting means. 6-206 refers to service boxes and other consumer service equipment, and therefore a combo meter disconnect outside that acts as the service box would be included in "service equipment". The main panel that is not a service box would NOT be included if it is separate from the main disconnect.

Question/Enquiry: What needs to be GFCI protected?

Response: The intent of this rule is not clear and needs to be re-worded.

Recommendation: Recommend this subject be carried forward.

2022-02:

Submitted by: Don Bradshaw

Code or regulation number: 8-106(2)

Background information was included in the conference package.

Question/Enquiry: Are you allowed to use 8-106(2) to reduce Electric Vehicle Supply Equipment (EVSE) load demand in a service calculation or must you use the newer and more specific rules 8-106(10) (11) because they were introduced specifically for electric vehicle load management?

Discussion: When applying for permits, a new service calculation is usually required.

Recommendation: For discussion. This has already been submitted to the Electrical Sub Council for consideration. It is agreed that either of these options can be used.

Decision: Closed

2022-03:

Submitted by: Ken Hood

Code or regulation number: 26-700(8)

Background information was included in the conference package.

Question/Enquiry:

New rule 26-700(8) and rules in 26-722 seem to be confusing and contradictory. Looking for some discussion on this and perhaps a recommendation to have the rule wording changed.

Response: Most agreed on interpretation of where the front of the sink is.

Decision: Closed.

2022-04:

Submitted by: Clark Redden

Code or regulation number: 10-104 & 20-014

Background information was included in the conference package.

Question/Enquiry: I am getting prints that call for a separate non-interconnected ground electrode for gasoline venting stack. Engineers don't seem to want to vary from what they've always done. Does this design violate these rules?

Decision: Interconnection IS an absolute requirement. Closed.

2022-05:

Submitted by: Clark Redden

Code or regulation number: 10-104

Background information was included in the conference package.

Question/Enquiry: Are true isolated ground receptacle installations allowed any more?

Response: Identify the reason for the isolated ground. Cost can be a factor.

Decision: Yes, they are. Ballot proposal is coming out this week regarding isolated ground receptacles suggesting updates. Closed.

2022-06:

Submitted by: The Inspections Group

Code or regulation number: 6-208

Background information was included in the conference package.

Question/Enquiry: Is the first point of disconnection required to be service entrance rated? What rule states this?

Decision: Rule 2-024 states that yes it does have to be service entrance rated. Standard used – C22.2 0.19 “Standard used for service entrance equipment.” Closed.

2022-07:

Submitted by: Clark Redden

Code or regulation number: 2-316

Question/Enquiry:

- a) What defines ventilation equipment?
- b) How far do we take this requirement?
- c) Am I correct in this call?

Decision: If there is any HVAC equipment on the roof which requires servicing, then the requirement for receptacles applies. Closed.

2022-08:

Submitted by: City of Lethbridge

Code or regulation number: 2-024, 16-200, 16-222

Question/Enquiry: Soffit lighting installations – rules, permitting.

Recommendation: For information only to advise electrical inspectors of the possible issues regarding soffit lighting. Recommend bringing this subject forward to the Electrical Sub-Council's next meeting. A City of Lethbridge representative will be invited to the meeting. Closed.

3. REPORTS

Copies of these presentations are attached to these minutes. Questions and comments were taken after each report.

Safety Codes Council Update

Chris Schmaltz

Alberta Municipal Affairs Electrical Update

Clarence Cormier, Provincial Administrator for the Electrical Discipline

Electrical Sub-Council 2021 Summary

Gerry Wiles, Chair of the Sub-Council

Farm Services Working Group

Ken Hood

Utilities Sub-Council

Michael Chledowski, EIAA representative to the Alberta Electrical Utility Code

4. UNFINISHED BUSINESS

See attachment for details on each of these items.

2021-03: 2018 CE Code 10-100

Proposal was sent to Part One as recommended.

2022 Update: Part One has recommended rejection of this proposal and it is now in the public review process.

Recommendation: Submit comments in the public review and this subject should be carried forward.

2021-06: 2018 CE Code 10-708

2022 Update:

Question: Can a person run a #10AWG bonding conductor in the walls where it is concealed and has mechanical protection provided by location?

Answer: Yes – was submitted from the Subcommittee to Part One. Another proposal was submitted asking the sub-committee to provide better clarity in the wording. Wording was modified accordingly and has gone to Part One for a vote.

Recommendation: This subject should be carried forward.

2021-08: 2018 CE Code 4-004(7) & 12-900 Auxiliary Gutters

2022 Update: It appears that a proposal was not submitted to Part One due to an error in the proposal.

Recommendation: Re-submit a proposal if update is not satisfactory. This subject should be carried forward.

2020: No outstanding items.

2019-07: Table 5D Current Rating Correction Factors Clarification

2022 Update: Refer to attachment.

Recommendation: This item is closed.

2019-11: CE Code 10-210: Grounding connections for solidly grounded ac systems by the supply authority.

2022 Update: Standata 18-ECB-010 Grounding electrodes provided by the Supply Authority.

Recommendation: Item is going to be re-submitted. Item is closed.

2018: No outstanding items.

2017-13: Rule 6-200 CE Code October 2013 Standata

2022 Update: Copy of the response letter from the Sub-Council was included in the attachment.

Recommendation: Item is going to be re-submitted. The item is closed.

2016-07: CE Code 2015-4-004

2022 Update: As of December 2021 the table and calculations in line with IEEE 835 are complete and have been uploaded to the electrical sub-council's website for comment. It will be voted on next meeting scheduled February 4, 2022. It is expected that this work that was done will be sent into Park One code for recommended changes to the tables in spring of 2022.

Recommendation: Item to be carried forward.

5. VENDOR DISPLAYS

Larry invited the attendees to visit the vendor displays. Vendors were invited to the mic to inform on-line attendees what they had on display.

6. AGENDA ITEMS (continued)

Larry read the submission from the City of Airdrie regarding requirements in relation to solar PV safety signs (attached). Provided to provide guidance for field safety labels.

Action Items: Andrew Pottier to have discussion with Ted regarding Larry – didn't get the full description of this.

Larry provided an overview of battery-based energy storage from the working group.

Larry mentioned the Education Committee needs to work to stay ahead of new technologies and provide the necessary training.

Larry reviewed the agenda for Day 2 and thanked the vendors.

Day One was adjourned.

DAY TWO – February 12, 2022

PRESENTATIONS (attached)

1. Section 24 of the CE Code and Z32 by Ark Tsisserev, AES Engineering
2. Product Counterfeiting by Andrew Pottier, ULC
3. Electric Vehicles and Demand Factors by Ark Tsisserev and Larry Cantelo
4. Area Classifications by Allan Bozak, EngWorks