



**MINUTES OF THE
FOURTH PRESSURE EQUIPMENT SUB-COUNCIL MEETING OF 2022**

DATE: September 8, 2022

TIME: 9:03 a.m. to 3:02 p.m.

LOCATION: Safety Codes Council Office

PRESENT: **Sub-Council Members**
Henry Hau, Chair
Bert Boulet
Greg Gaudet (virtual)
Diederick Godin
Robert James
Warren Kmicik
Billy Lee, Vice Chair
Justin Macneil (arrived at 9:26 a.m.)
Tony McWhannel
Nyssa Moore
Jim Rice
Jacques St-Onge
Elaine Wasylenchuk (virtual)
Danielle Woroniuk (virtual)

Safety Codes Council
Allison Karch, Kathryn Derkach

Alberta Municipal Affairs
Nick Monea, Jon Elliot (virtual)
Sidney Manning (virtually for item 4.6)

ABSA
Mike Prefumo, Djordje Srnic

REGRETS: Nate Bartley, Geoff Kutz

OBSERVERS: Matt Yarmuch

RECORDER: Kathryn Derkach

2022 MEETINGS: November 3

1. Meeting Opening

The Chair called the meeting to order at 9:03 a.m. A round table introduction was held and members were reminded that their primary duty is to act in the interest of safety in the built environment for the benefit of all Albertans and to declare any conflicts of interests.

1.1 Agenda Adoption

Robert James / Diederic Godin moved that the agenda be adopted, as circulated; CARRIED

1.2 Adoption of the June 9, 2022 Minutes

The minutes were reviewed and the following corrections were made under item 4.5.5.:

“It was noted by Billy Lee and Nate Bartley that there may be a perceived conflict of interest based on their work relationship with PCL and Acuren, respectively.”

Billy Lee / Jack St. Onge moved to adopt the minutes of the June 9, 2022 meeting, as amended; CARRIED

2. Matters for Decision

2.1. Closed Session

Jacques St-Onge / Jim Rice moved to enter into closed session; CARRIED

Billy Lee / Justin MacNeil moved to exit closed session; CARRIED

2.1.1. Reappointment of Robert James to represent Labour

Billy Lee / Jacques St-Onge moved to recommend to the Board reappointment of Robert James to the Pressure Equipment Sub-Council to represent Labour for a term ending January 31, 2025, effective immediately; CARRIED

2.1.2. Reappointment of Henry Hau to represent Power Engineers

Vice Chair Billy Lee chaired this item

Tony McWhannel / Nyssa Moore moved to recommend to the Board reappointment of Henry Hau to the Pressure Equipment Sub-Council to represent Power Engineers for a term ending January 31, 2026, effective February 1, 2023; CARRIED

2.1.3. Reappointment of Diederic Godin to represent Electrical Utilities

Jacques St-Onge / Tony McWhannel moved to recommend to the Board reappointment of Diederic Godin to the Pressure Equipment Sub-Council to represent Electrical Utilities for a term ending January 31, 2026, effective February 1, 2023; CARRIED

2.2. Proposed Amendments to the Pressure Equipment Safety Regulation

The Assistant Deputy Minister sent a letter to the Safety Codes Council requesting input on administrative amendments to the Pressure Equipment Safety Regulation (PESR). Council staff reviewed the changes and drafted a letter in response, and asked PESC for confirmation that these changes are administrative in nature and don't introduce substantive technical changes.

The first change simplifies the design submissions process by removing the in-duplicate requirements. The second change replaces the current definition of professional engineer with the definition in the Engineering and Geoscience Professions Act.

It was clarified that upcoming changes to the Professional Governance Act would not impact this regulation.

Greg Gaudet / Billy Lee moved to support adoption of amendments to the Pressure Equipment Safety Regulation proposed by Municipal Affairs; CARRIED

3. Review Matters Arising/Action List

	Item	Action	Date Initiated	Responsible	Status/Update
1.	Shortage of trained/qualified individuals	Bring info on IPEIA's education committee.	June 9/22	Bartley	Some information was shared by email: https://ipeia.com/resources/IPEIA_CareerPath.pdf
2.	Review of CSA N285.0	The PESC Chair will respond to the letter indicating that the sub-council is reviewing these codes and will update them once the sub-council has made a recommendation.	June 9/22	Hau	Because the response would be sent to an individual who is actively participating on the working group reviewing this code, it was decided a formal response will not be sent. Item is complete and will be removed from the action list.

4. Matters for Discussion

4.1. Background on CSA N285.0

The Boiler and Pressure Vessel Technical Advisor provided a high level overview of CSA N285.0 with specific information for consideration regarding adopting the code to support the development of Small Modular Reactors (SMRs) in Alberta. The written overview was provided in the member portal. It was noted that this is a design code that specifically addresses design and registration aspects not found in ASME Section III and is the only current reference document for this type of equipment.

The Technical Advisor has reached out to CSA for further information and was informed that CSA is considering adding an appendix specific to SMRs. It's expected this appendix would be released mid-cycle between the 2023 edition and the following edition in 2025-2026, which is expected to be a full revision of the code.

It was noted that this code is currently under public review until October 3, 2022.

4.2. Working Group Reports

4.2.1. CSA N285.0

A written report was posted in the member portal and reviewed. The working group would like direction from the sub-council on how to move forward based on the background information on CSA N285.0 given by the Technical Advisor.

The working group has identified two options:

- Move forward with evaluating the code and making a recommendation based on their evaluation.
- Wait until the new edition of CSA N285.0 has been released in 2023 to see what updates may be included, with the expectation that SMRs will not yet be included.

Nyssa Moore / Robert James moved that the CSA N285.0 working group continue evaluating the current edition of the N285 code for potential adoption; CARRIED with Billy Lee abstaining.

It was noted that a former ABSA board member has experience with nuclear technology. Mike Prefumo will work with Council staff on arranging a future presentation. [Prefumo and Council Administration]

**4.2.1.1. Addition of Diederick Godin and Greg Gaudet to the working group
Tony McWhannel / Bert Boulet moved to amend the CSA N285.0 working group membership to include Diederick Godin, Robert James and Greg Gaudet; CARRIED**

4.2.2. Power Engineers

The following was discussed:

- An update was given on the status of the proposed PER exemption and new definitions regarding unfired boilers from the June 9 meeting.
 - The draft letter recommending exempting this type of equipment from the PER is being reviewed by Council leadership, including the new Vice President of Regulatory Affairs, Governance, and Policy, before being sent to Municipal Affairs.
 - Municipal Affairs has started informal background work on this issue while waiting for the formal letter from the Council.
- It was noted that there may be some inconsistency with the ABSA requirement for firing time to receive certification for Power Engineering and how long that certification is valid after graduation. Currently, there is no time limit for someone to challenge the ABSA exam, it could be 20 years after they completed the course. This doesn't appear to align with regulations. The Education and Training member will continue to look into the issue and discuss it with the working group and ABSA. [Woroniuk]
- The working group would like to review the Power Engineering Regulation for opportunities to modernize. The Technical Advisor will attend the next working group meeting to assist. Industry groups will be brought in as needed for this review as well.

- The working group chair will follow up with Municipal Affairs around the long term recommendations for ammonia refrigeration systems.

4.2.3. Pressure Welders

No update.

4.2.4. PESR Codes & Standards

No update.

4.2.5. PESR In-Service Equipment

No update.

4.3. AMA Report

The Technical Advisor reported:

- There is ongoing ABSA compliance monitoring.
- Advanced Education is working with Provincial advisory committees on regulated work within the Pressure Equipment Regulation.
- There is an internal code review of ASME B31.12 and B31.3 in response to a letter received from GUAC.

4.4. ABSA/Administrator Report

The Administrator reported:

- Summary of Unsafe condition, accident and fire reports
 - Twenty six conditions, accident and fire reports were entered since the last update (2022-03-17). No injuries have been reported in this period.
 - Brief descriptions are available <https://www.absa.ca/unsafe-condition-accident-fire-reporting/summary-of-unsafe-condition-accident-fire-reports/>
- Information Bulletins
 - IB22-012 [Servicing of Pressure Relief Valves on Propane Storage Tanks](#)
 - IB22-011-RI [Exemption for methanol injection tanks in section 2\(1\)\(f\)\(iv\) of the Pressure Equipment Exemption Order \(AR 56/2006\)](#)
 - IB22-010-R1 [National Board Registration of Cast Iron Sectional Boilers Constructed Outside of Canada](#)
 - IB22 009-R1 [Acceptance of Initial Service Leak Test for Pressure Piping](#)
- New or Revised AB-500 Documents
 - No new or revised AB-500 documents for period 2022-06-09 to 2022-09-08
- Codes and Standards
 - ASME
 - The ASME Boiler Code Week virtual meetings were held from August 8th to August 12th, 2022. Highlights of the May meetings are as follows:
 - Technical Oversight Management Committee (TOMC)
 - It was reported that the November ASME Boiler Code Meetings will be held in-person. Meetings will be in Pittsburgh, PA.

- ASME has a new initiative that should result in the use of the gender neutral language for the ASME Boiler and Pressure Vessel Codes. Some of the work will be done for the 2023 Edition of the code books but the majority of the work will be done for the 2025 Edition.
 - Boiler and Pressure Vessel (BPV) Section II
 - B31.1 to move stress tables in Section II-D – plan for 2024/2025 editions
 - BPV XIII materials to move in Section II-D - sometime in the future
 - N98xxx: SB to be moved to SA specifications and moving in stress tables
 - Boiler and Pressure Vessel (BPV) Section VIII
 - The ASME BPV VIII Standards Committee is working on restructuring and complete rewrite of Section VIII, Division 1 with the intention to publish it in 2025.
 - There is possibility that the design rules for UHX and Appendix 26 will be moved from Div.1 to Div. 2 in 2023 Edition.
 - Many proposed changes are scheduled to be balloted. The more information about these code changes will be available after November ASME code Week meetings.
 - Rules for the design and construction of fired heater treater vessels will not be ready for the 2023 Edition of the ASME BPV Code. The work will continue for 2025 Edition of the code. This type of pressure equipment is commonly used in Alberta.
 - ASME reported that Task Group on Additive Manufacturing (AM) is preparing Code Case for AM.
 - It was reported that NB is very interested to develop rules that will allow replacement parts to be built quickly for the turnarounds
 - Section VIII Committee is considering providing rules for lethal service on one place in the code.
- CSA B51

The CSA B51 Technical Committee (TC) meeting was held virtually on April 11th, 2022. The next meeting is scheduled to be held in person in Winnipeg on September 22, 2022. CSA B51 TC and TSCs are working on the following Code revisions:

- TSC on Modernization:
 - TSC is revising proposals that will be re-balloted soon.
- TSC on Boilers
 - TSC is preparing a proposals for:

- revision of blowdown/blowoff vessels
- addition of new rules for boilers and HES piping systems in cyclic service
- TSC on Pressure Vessels
 - Proposal for carbon steel toughness requirements was balloted.
 - TSC is preparing proposal for pneumatic test requirements.
 - TSC is preparing a proposal for the revision of ammonia vessel requirements, and proposals for introduction of requirements for carbon steel toughness and pneumatic testing
 - TSC is working with CSA B52 TSC on Ammonia Refrigeration Systems to address specific requirements in CSA B51, Clause 7 for pressure vessels using ammonia as refrigerant.
- TSC on Parts 2 & 3
 - TSC is working on the proposal to move the requirements from CSA B51, Part 3 in CSA B51, Part 1 and some installation requirements in CSA B108.
- CSA B52

The CSA B52 Technical Committee (TC) meeting was held virtually on June 7th, 2022. The next meeting is scheduled to be held in person in Winnipeg on September 21, 2022. CSA B51 TC and TSCs are working on the following Code revisions:

 - Several proposals for code revision were reviewed and will be on B52 TC ballots soon.
 - Ammonia subcommittee is working on gap analysis by comparing the requirements in CSA B52; IIAR 2, and ASHRAE 15. By removing ammonia requirements in ASHRAE 15, the issue was created in B52. In many cases, B52 referred to ASHRAE 15 for ammonia refrigeration systems. The preliminary findings indicate differences that will need to be addressed.
- CSA Z662

The CSA Z662 Technical Committee (TC) meeting was held virtually on June 15th, 16th, and 17th, 2022. TC addressed the public review comments and voted on final version of the Z662 that will be published in June 2023.

 - It was noted that the use of ammonia is becoming more common within industry and it's an issue that will need to be discussed in the future.

4.5. Council Updates

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

- Members were reminded of the recent update to the Council's communications policy which now is applicable to members.

- The Council’s AGM and volunteer appreciation event is being held in Edmonton on October 21, 2022.
 - Council staff will arrange hotel rooms—please include your hotel needs in the registration form if applicable.
- Member Training dates—two virtual half-day sessions for each course, you must attend both days to complete the course:
 - Appeals Training: November 15 & 16, 2022
 - Effective Meetings: October 31 & November 1, 2022
 - Contact gerry.letendre@safetycodes.ab.ca to register.
- Clarification was provided about the approach to in-person and virtual sub-council meetings.
 - The Council’s overall approach is a hybrid of some meetings held in person and some held virtually.
 - All members are asked to make an effort to attend in-person meetings in person, but there will be the option to attend virtually if they’re not able to attend because of illness, etc.
- Please notify Council staff as soon as possible of any contact info changes for yourself or your nominating organization.

4.6. Updated Fuel gas piping in plants STANDATA and associated flowchart

The Provincial Gas Administrator reported on the jurisdictional separation between the pressure equipment and gas disciplines in regards to fuel gas piping in plants. This issue has been reviewed over the years and a STANDATA and flowchart have been created to further clarify for industry. The flowchart was reviewed on screen and the following comments were made:

- The definition for process or utility gas should be included.
- The order of the decision points should be reordered to switch the current second diamond regarding the location of piping and fittings and the third diamond regarding design pressure.
- It was noted that the core intent of this flowchart was to escalate understanding, because the gas regulator is always needed in applications.
- There was overall support from the sub-council for the use of this flowchart.
- It was suggested that this flowchart be taken to nominating organizations and working groups for further discussion.
- Additional comments or questions can be sent to Council staff or the Gas Administrator.

Greg Gaudet / Jacques St-Onge moved to recommend the inclusion of a flowchart to the Fuel Gas Piping in Plants STANDATA; CARRIED

The Gas Administrator will take comments back to the Gas Sub-Council for further discussion.

4.7. PESC Work Planning

The Chair requested that members review the list of potential discussion topics for the addition of any new items, discussion of urgency for each item, assessing whether an item falls within PESC’s scope, and identify possible next steps.

This item will be kept on the agenda for future meetings.

[Council Administration]

4.7.1. Hydrogen codes – Letter from GUAC re. ASME B31.12 and B31.3

A letter was sent from the Generation Utilities Advisory Committee (GUAC) to the PESC and Municipal Affairs asking that ASME B31.12 be considered for adoption. This item will be sent to the Codes and Standards working group for initial review to see if it's an issue they would like to address or if a new working group should be formed for this topic.

The working group chair will include all sub-council members and the Technical Advisor on the meeting invitation. [Gaudet]

5. Meeting Finalization

5.1. Round Table

- The Petroleum Industry representative asked if anyone has issues with the apprenticeship board performing audits and noting that person doing the work needs to be an apprentice.

5.2. Next Meeting

The next meeting was reconfirmed for November 3, 2022 virtually at 9:00 a.m.

5.3. Meeting Adjournment

The meeting was adjourned at 3:02 p.m.

– NEW ACTION ITEMS –

4.2.1. CSA N285.0

It was noted that a former ABSA board member has experience with nuclear technology. Mike Prefumo will work with Council staff on arranging a future presentation. [Prefumo and Council Administration]

4.2.2. Power Engineers

It was noted that there may be some inconsistency with the ABSA requirement for firing time to receive certification for Power Engineering and how long that certification is valid after graduation. Currently, there is no time limit for someone to challenge the ABSA exam, it could be 20 years after they completed the course. This doesn't appear to align with regulations. The Education and Training member will continue to look into the issue and discuss it with the working group and ABSA. [Woroniuk]

4.7. PESC Work Planning

This item will be kept on the agenda for future meetings. [Council Administration]

4.7.1. Hydrogen codes – Letter from GUAC re. ASME B31.12 and B31.3

The working group chair will include all sub-council members and the Technical Advisor on the meeting invitation. [Gaudet]

– MOTIONS –

1.1 Agenda Adoption

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1.2 Adoption of the June 9, 2022 Minutes

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– WORKING GROUP MEMBER LISTS –

WORKING GROUP	WORKING GROUP MEMBERS (<u>Chair</u>)
Power Engineers	<u>Tony McWhannel</u> Bert Boulet, Henry Hau, Danielle Woroniuk, Jim Rice, Mike Lyne, Todd Loran, John Wolff, David Miller, Warren Kmicik ABSA: Mike Poehlmann, John Siggers
Pressure Welders	<u>Billy Lee</u> Geoff Kutz, Nyssa Moore, Jacques St-Onge, Robert James, Nate Bartley, Henry Hau, Justin MacNeil, Rick Walmsley, Matt Yarmuch ABSA: Mike Prefumo, Jason Reinhart
PESR Codes and Standards, Design Registration and Shop Inspections	<u>Greg Gaudet</u> Henry Hau, Billy Lee, Tony McWhannel, David Miller, Eric Madsen, Jim B. Seale, Neil McKay, Shawn Morrison, Trevor Seipp, Diederick Godin, Kelly Bell ABSA: Djordje Sronic
PESR In-Service Inspections, Repairs & Alterations, and PEIM Program	<u>Geoff Kutz</u> Greg Gaudet, Henry Hau, Todd Loran, Nyssa Moore, Jacques St-Onge, John Wolff, Nate Bartley, Diederick Godin (Vice Chair), Jim Rice ABSA: Mike Poehlmann, Mike Prefumo, John Siggers
CSA N285.0	<u>Nyssa Moore</u> Jack St.Onge, Danielle Woroniuk, Henry Hau External: Louis Shoukas, Randy Gleave, Lee Lama, Jessica Parker ABSA support: Mike Prefumo, Robin Antoniuk AMA support: Nick Monea