



**MINUTES OF THE
FIRST PRESSURE EQUIPMENT SUB-COUNCIL MEETING OF 2023**

DATE: January 12, 2023

TIME: 9:00 a.m. to 12:55 p.m.

LOCATION: Videoconference

PRESENT: **Sub-Council Members**
Henry Hau, Chair
Nate Bartley
Bert Boulet
Diederic Godin
Robert James
Warren Kmicik
Geoff Kutz
Justin MacNeil
Tony McWhannel
Nyssa Moore
Jim Rice
Jacques St-Onge
Elaine Wasylenchuk

Safety Codes Council
Allison Karch, Jennifer Johnson, Katie Rowe (Vice President, Regulatory Affairs, Governance and Policy), Mychele Joyes (Manager of Policy), Mike Roshuk (Manager of Communications)

Alberta Municipal Affairs
Nick Monea

ABSA
Mike Prefumo, Djordje Srnic

REGRETS: Billy Lee (Vice Chair), Danielle Woroniuk, Greg Gaudet

GUESTS: N/A

RECORDER: Jennifer Johnson

2023 MEETINGS: March 16, May 4

1. Meeting Opening

The Chair called the meeting to order at 9:05 a.m. A round table introduction was held and videoconference functionality was reviewed, 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.

1.1 Agenda Adoption

Justin MacNeil/Robert James moved that the agenda be adopted, as circulated; CARRIED

1.2 Adoption of the November 3, 2022 Minutes

Tony McWhannel/Geoff Kutz moved to adopt the minutes of the November 3, 2022 meeting, as circulated; CARRIED

2. Matters for Decision

2.1. Closed Session

Robert James/Geoff Kutz moved to enter into closed session; CARRIED

Geoff Kutz/Justin MacNeil moved to exit closed session; CARRIED

2.1.1. Chair Election

This item was chaired by Vice Chair Nyssa Moore.

The Vice Chair called for nominations for the Chair position. Henry Hau was nominated and accepted the nomination. Two further calls were made with no further nominations being brought forward. **Henry Hau was appointed Chair of the PESC by acclamation.**

2.1.2. Vice Chair Election

This item was chaired by Vice Chair Nyssa Moore.

The Vice Chair called for nominations for the second Vice Chair position. Billy Lee nominated himself in advance via email. Two further calls were made with no further nominations being brought forward. **Billy Lee was appointed Vice Chair of the PESC by acclamation.**

3. Review Matters Arising/Action List

	Item	Action	Date Initiated	Responsible	Status/Update
1.	Nuclear presentation	Former ABSA board member Bob Emmott has experience with nuclear technology. Mike Prefumo will work Council staff on arranging a future presentation.	Sept 8/22	Council Admin/ Prefumo	A presentation is planned for the March 16, 2023 meeting.

2.	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.		All	Members and ABSA and AMA representatives are asked to identify priority items they would like to discuss in detail at a future meeting, including any available background information and what action the sub-council could take on this item.
3.	Skills Matrix – Contract Chief Inspectors industry segment	The Contract Chief Inspectors representative will go back to the nominating organization to find out if adding NDT to the skills matrix is appropriate for that seat.	Nov 3/22	Bartley	Nathan will give a presentation at the May meeting.

4. Matters for Discussion

4.1. Safety Codes Council New Staff Introduction

The following was discussed:

- The Vice President; Regulatory Affairs, Governance, and Policy delivered a presentation discussing changes at the Council and introducing new staff.
- The strategic pillars were shared as well as business initiatives aligned with the pillars.
- Council staff is working to standardize procedures and processes across sub-councils.
- Upcoming events for Council members will include the AGM and Member Appreciation Event in May as well as an educational conference planned for fall. More information will follow.

4.2. Overview of AB-500 Documents and IBs

4.2.1. Questions about review of AB-513 and AB-526 – send any comments to Council staff by February 28, 2023

The Pressure Equipment Administrator explained they are reviewing these documents to ensure accuracy and request input from stakeholder groups, including the sub-council. Members are asked to review and supply feedback to Council staff by February 28th. Council staff will compile comments into a master document for review and validation by the sub-council at the March meeting, which will then be submitted to ABSA. [All]

A question was asked about this review process, and ABSA representatives noted that there haven’t been recent revisions to these documents and this process is to identify potential improvements. AB-500 documents typically provide standardized guidance on common questions/situations. It was suggested that it may be helpful for ABSA to develop a written summary explaining the different types of documents, when they are issued, and how they are reviewed (ex. variance, information bulletin, AB-500 and AB-600 documents).

4.3. Working Group Reports

4.3.1. Power Engineers

- Working on identifying issues arising from the Power Engineer Regulation, including a shared frame of reference for this review.

4.3.2. Pressure Welders

- An update was requested from Municipal Affairs about past input on the Pressure Welder Regulation and red tape reduction proposals regarding the welding discipline.

4.3.3. PESR Codes & Standards

- No update was provided.

4.3.4. PESR In-Service Equipment

- Geoff Kutz is retiring from the sub-council but will stay on until his successor is appointed. The working group will need to appoint a new chair.

4.3.5. CSA N285.0

- Working Group has not met since the last sub-council meeting. It will begin work on the comparison document provided by ABSA at the next meeting.

4.4. AMA Report

The Technical Advisor reported:

- The Technical Advisor reviewed the feedback on the Pressure Welding Regulation and provided updates on potential changes; he will forward the update to Chair of the Working Group.
- Conversations are underway with ABSA about the recommendation made about unfired boilers but additional clarification is needed; no decision has been made yet but a STANDATA may be used to address this topic.
- The Technical Advisor will develop a guidance document for the sub-council on the process for reviewing documents and recommending proposed changes to Municipal Affairs for the next meeting.
- Preliminary review of B31.12 noted some concerns; these will be shared with the working group that reviews this code.

4.5. ABSA/Administrator Report

The Administrator reported:

- ABSA increased the scope of their AIA accreditation with ASME to include BPVC Section III, Division 5.

Summary of Unsafe condition, accident and fire reports

- Thirty-three unsafe condition, accident and fire reports were entered since the last update (2022-11-03). 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

- IB22-023 Movement of Tanks Not Designed for Transportation or Delivery of Propane.

New or Revised AB-500 Documents

- No new or revised AB-500 documents for period 2022-09-08 to 2022-11-03.

Codes and Standards

ASME - ASME BPV Code week was held in Pittsburgh, PA from November 6th to 11th, 2022. This was the last meeting to approve changes in the BPV code for the 2023 Edition. Highlights include:

Technical Oversight Management Committee (TOMC)

- The February 2023 ASME BPV Code Meetings will be held virtually except for Sections VIII and IX Committee meetings. These meetings will be in-person in Miami, FL.
- After February meetings, ASME will have one virtual code week meetings (August 2023) and two code weeks meetings in person (May and November, 2023)
- Strategic initiatives
 - Hydrogen is a “hot topic” (lot of government activities; more than 5000 cars in Los Angeles – there is a need for rules for vessels that will address Hydrogen production, storing, and tracking rules)
 - Remote inspection
- Task Group on Inspection Requirements – the Task Group goal is to compare the third party inspection requirements throughout the code books and check if the rules may be synchronized.
- Code revisions to implement gender neutral language (project is in progress)
 - 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.
- CA-1 Standard - Use of Language other than English in Direct Stamping
- CA Code Cases 6 and 7 for remote inspection have been extended until May 31, 2023

ASME Boiler and Pressure Vessel Code (BPVC) Section I

- The Task Group on Modernization is working on the modernization rules for power boilers. Some of these modernization initiatives will include high temperature rules (e.g. material properties, welding requirements, PWHT, preheat), creep design rules, and creep-fatigue rules. Some of these new rules were published in the 2021 Edition of Section I. The work continues for the 2023 edition.
- For 2025, the Section I Modernization project should include
 - Publication of Creep-fatigue rules
 - Revision of Code Cases

ASME Boiler and Pressure Vessel Code (BPVC) 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.

ASME Boiler and Pressure Vessel Code (BPVC) Section IV

- Code revisions to implement gender neutral language.
- Introduction of new MDR form - FORM H-1 MANUFACTURER'S MODULAR MASTER DATA REPORT FOR MODULAR BOILERS OR MODULAR WATER HEATERS.
- revisions to MDR forms H-2, H-3 and HLW-6 – introduction of master data report check box.
- Clarity – project for the next code edition.

ASME Boiler and Pressure Vessel Code (BPVC) Section VIII

BPV VIII Standards Committee

- Move of design rules for UHX and Appendix 26 from Div.1 to Div. 2 – approved for 2023 edition - This is an important change that will impact Alberta Industry.
- UG-101 – Item passed to allow the use of UTS values from MTR in lieu of three tensile tests (22-874) – this is departure from commonly used rule in ASME BPV code books.
- Scope revision – the proposal was discussed – It seems that this revised (no. 24) proposal has better chance to be acceptable to ASME committees and refrigeration industry. Ballot will be open soon.
- 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.
 - Before new items are opened in C&S Connect, the item will be reviewed by the Reshape Project Management Team
 - Management Team was established to better manage priorities for Section VIII Div. 1 reshape project
 - With a new code cycle starting next year, BPV VIII SC should look how to strategically address priority items and focus on these important items
 - February meeting should define path forward
- Section VIII Standards Committee and Technical Sub-Committees will meet in person in February 2023 – Miami, Florida.
- George Rowls reported that Task Group on Additive Manufacturing (AM) is preparing Code Case for AM. Presentation is scheduled for the February 2023 meeting.
 - NB is very interested to develop rules that will allow replacement parts to be built quickly for the turnarounds.

ASME Boiler and Pressure Vessel (BPV) Section IX

- QW-600 – wire additive manufacturing.
- Task Group assigned to evaluate remote welding qualification supervision – pending.
- Research project for Arc Direct Energy Distribution (DED) metal additive manufacturing.
- ASME White Paper: *A History of Additive Manufacturing Using Conventional Welding Processes* by Walter Sperko

ASME Boiler and Pressure Vessel (BPV) Section XIII

- Hybrid code – it is the code of construction and service book.
- Developing strategic item list.
- Changes in B31 – Initiative to move overpressure protection requirements in Section XIII
 - Section XIII opened items to start transfer of overpressure protection requirements from B31 codes (e.g. B31.1, B31.3, B31.5, B31.8 and B31.12) into Section XIII.
- Each code of construction there is a guide (e.g. Section VIII Non-mandatory Appendix PP) to the relocation of overpressure protection requirements. These guides will be in the code books one or two code editions.

ASME Piping Codes

- B31.1:2022 issued on 2022-10-10
 - B31.1 to move stress tables in Section II-D – plan for 24/25 editions.
 - B31.1 Conformity Assessment requirements project
 - B31.1 has established a Quality Control Subgroup.
 - This is 5-year mission to address the conformity assessment requirements for non-BEP piping within the scope of ASME B31.1.
 - Covered piping systems (CPS): piping systems on which condition assessments are to be conducted. As a minimum for electric power generating stations, the CPS also include NPS 4 (DN 100) and larger piping in other systems that have a design temperature greater than 750°F (400°C) or a design pressure greater than 1,025 psi (7.1 MPa).
 - This appendix picks up where ASME Section I leaves off - at the first isolation valve coming off a boiler.
 - The appendix refers to “Inspectors” but those inspectors are not Authorized Inspectors.
 - The owner’s inspector shall verify that the piping system conforms to the requirements of B31.1
- B31.3 – New edition is scheduled for the end of 2022
- B31.5 – New edition is scheduled for the end of 2022
- B31.12 – New edition is scheduled for the end of 2022

CSA B51 - The CSA B51 Technical Committee (TC) did not meet in this reporting period but Technical Subcommittees had several meetings in order to:

- finalize proposals for the code changes that were balloted in the last three months; or
- address comments and negatives from the recently conducted ballots for 2024 edition of the code.

Highlights of the work include:

- Technical Sub-Committee on Modernization:
 - Four proposals for conformity assessment and synopsis of Provincial requirements were balloted in November and December.
 - Two proposals for reorganization of B51 and Design Application form were balloted earlier.
- Technical Sub-Committee on Boilers

- TSC completed and sent for ballots the following proposals:
 - revision of blowdown/blowoff vessels
 - addition of new rules for boilers and HES piping systems in cyclic service.
 - It was asked whether changes regarding systems in cyclic service would have any impact on existing systems; it was answered that this is unknown until the final wording of code changes is known.
- Technical Sub-Committee on Pressure Vessels
 - Proposal for carbon steel toughness requirements was balloted in October.
 - The proposal for pneumatic test requirements was balloted in November.
 - The proposal to address specific requirements in CSA B51, Clause 7 for pressure vessels using ammonia as refrigerant was balloted in November.
- Technical Sub-Committee 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. The plan is to issue CSA B51 TC ballot before the end of 2022.
- Integrity Management System Working Group
 - WG prepared the proposal for a new Informative Annex that will provide requirements for Owners pressure equipment integrity management systems.
 - CSA B51 TC ballot was conducted in December 2022.
- The next edition of CSA B51 is scheduled for first quarter of 2024.

CSA B52 - The CSA B52 Technical Committee (TC) did not meet in this reporting period but Technical Subcommittees had several meetings in order to:

- prepare proposals for the code change that will be sent for B52 TC ballots; or
- address comments and negatives from the recently conducted ballots for 2024 edition of the code.

Highlights of the work include:

- Proposals for Introduction of New refrigerants
- Requirements for Ammonia refrigeration systems
 - 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 through B52 code revisions.
 - Revision of Clauses 5.2; 5.7.3; & 5.8 to revise the exemptions and allow the use of UL standards
- The next edition of CSA B52 is scheduled for first quarter of 2024.

CSA Z662 - The CSA Z662 Technical Committee (TC) meeting next meeting will be in February 2023. CSA Z662 is scheduled to be published in June 2023.

4.6. Council Updates

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

- The deadline for nominations for the Dr. Sauer Award is March 15th, nomination forms can be found in the member portal.
- The sub-council schedule for September 2023 to June 2024 is in the member portal; please let Allison know of any conflicts.
- The Council has recently issued a [Cyber Security Policy](#) which applies to members. Please take a moment to read it and become familiar with your responsibilities.
 - Please be diligent when uploading documents to the Portal.
 - If an incident occurs (i.e. you accidentally share a malicious link, etc.) please report it to Council staff immediately.
- Member training (Effective Meetings Workshop and Appeals Training) will be offered in February/March 2022—dates will be circulated by email. This training is required for new members and open to any members who have not yet taken it or would like a refresher.
- Changes in the sub-council support staff:
 - Sub-councils bring front-line and industry insight to issues while providing policy and technical advice to government. In order to best facilitate that work, sub-councils will now fall under the purview of the Manager, Policy.
 - Kathryn Derkach has taken on the role of Communications Coordinator at the Council and will transition out of working directly with the sub-councils.
 - Jennifer Johnson will backfill Kathryn’s position until the vacancy is filled permanently.

5. Meeting Finalization

5.1. Round Table

- A member shared a news article from the Vancouver Sun regarding a steam leak in the Victoria General Hospital.

5.2. Next Meeting

The next meeting was reconfirmed for March 16, 2023 via videoconference at 9:00 a.m.

5.3. Meeting Adjournment

The meeting was adjourned at 12:55 p.m.

– NEW ACTION ITEMS –

4.2.1. Questions about review of AB-513 and AB-526 – send any comments to Council staff by February 28, 2023

Members are asked to review and supply feedback to Council staff by February 28th. Council staff will compile comments into a master document for review and validation by the sub-council at the March meeting, which will then be submitted to ABSA. [All]

– MOTIONS –

1.1 Agenda Adoption

Justin MacNeil/Robert James moved that the agenda be adopted, as circulated; CARRIED

1.2 Adoption of the November 3, 2022 Minutes

Tony McWhannel/Geoff Kutz moved to adopt the minutes of the November 2, 2022 meeting, as circulated; CARRIED

2.1. Closed Session

Robert James/Geoff Kutz moved to enter into closed session; CARRIED

Geoff Kutz/Justin MacNeil moved to exit closed session; CARRIED

2.1.1. Chair Election

Henry Hau was appointed Chair of the PESC by acclamation.

2.1.2. Vice Chair Election

Billy Lee was appointed Vice Chair of the PESC by acclamation.

WORKING GROUP	WORKING GROUP MEMBERS (Chair)
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 Srnic
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, Diederick Godin, Greg Gaudet External: Louis Shoukas, Randy Gleave, Lee Lama ABSA support: Mike Prefumo, Robin Antoniuk AMA support: Nick Monea