



# Safety Codes Council

## MINUTES OF THE FIFTH PRESSURE EQUIPMENT SUB-COUNCIL MEETING OF 2023

**DATE:** November 23, 2023

**TIME:** 9:00 a.m. to 1:57 p.m.

**LOCATION:** Videoconference

**PRESENT:** **Sub-Council Members**  
Henry Hau, Chair  
Nate Bartley  
Bert Boulet  
Greg Gaudet  
Diederic Godin  
Robert James  
Billy Lee, Vice Chair  
Warren Kmicik  
Dean Kovacs  
Justin Macneil  
Tony McWhannel  
Nyssa Moore, Vice Chair  
Jim Rice  
Elaine Wasylenchuk

**Safety Codes Council**  
Allison Karch, Jennifer Johnson

**Alberta Municipal Affairs**  
Nick Monea

**ABSA**  
Robin Antoniuk, Mike Prefumo, Djordje Srnice

**REGRETS:** Jacques St-Onge

**GUESTS:** Amber Adams, Type A Integrity Corp.

**RECORDER:** Jennifer Johnson

**2024 MEETINGS:** January 11, March 28, June 6

## 1. Meeting Opening

The Chair called the meeting to order at 9:04 a.m. A round table introduction was held, 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

The following items were added to the agenda:

- Item 4.4 – New CSA Standard for Power Plants

**Tony McWhannel/Robert James moved that the agenda be adopted, as amended; CARRIED**

### 1.2 Adoption of the September 26, 2023 Minutes

**Greg Gaudet/Dean Kovacs moved to adopt the minutes of the September 26, 2023 meeting, as circulated; CARRIED**

## 2. Matters for Decision

### 2.1. Closed Session

**Bert Boulet/Diederic Godin moved to enter into closed session; CARRIED**

**Warren Kmicik/Justin MacNeil moved to exit closed session; CARRIED**

#### 2.1.1. Matrix Review

**Tony McWhannel / Billy Lee moved to recommend that the industry segment for Pulp and Paper be changed to Forestry, Pulp, and Paper to better represent the industry and the association's membership; CARRIED.**

#### 2.1.2. Nomination of Nenad Trkulja to represent Professional Engineers

**Nyssa Moore/Justin MacNeil moved to recommend to the Board appointment of Nenad Trkulja to the Pressure Equipment Sub-Council to represent Professional Engineers for a term ending January 31, 2027, effective February 1, 2024, effective; CARRIED.**

## 3. Review Matters Arising/Action List

None identified.

## 4. Matters for Discussion

### 4.1. Information Bulletin/AB-500 Review Project

The Administrator provided a presentation; highlights included the following:

- Information Bulletins (IB) are issued by the Administrator and Chief Inspector to provide safety and compliance information to ABSA's interested parties.
- There are five types of IBs: alerts, interpretations, notifications (information), variances and withdrawn.

- There are two types of AB-500 Series documents: requirement documents and guidance documents.
- AB-500 series documents are developed by ABSA technical staff in consultation with interested parties.
- Information Bulletins support the AB-500 series requirement documents only.
- For the guideline AB-500 documents, the document title typically includes word Guideline. If there is no IB issued for an AB-500 document, then the AB-500 document is a guideline rather than requirement.
- IBs and AB-500 documents both have regular review cycles, during which ABSA engages the pertinent user groups.
- ABSA maintains a mailing list for IBs and ABs with approximately 5000 subscribers.

#### **4.2. Kamloops Incident**

A presentation was given summarizing the incident and the following was discussed:

- CSA voted on the proposed recommendations, CSA B52 Technical Committee accepted the recommendations and they will be added to the new edition of CSA B52.
- Operators need to be prepared for what could happen, particularly when dealing with shutdowns and/or change of ownership.
- Similar discussion has come up with the In-Service Working Group when discussing used equipment peddlers, and it was noted it would be helpful if there was a way to educate people.
- Small operators should be educated on the cradle to grave approach; operation, maintenance, decommissioning, etc.
- There is the opportunity for ABSA to post information online regarding owner responsibilities.

#### **4.3. CSA B52 – Awareness of Upcoming Changes Regarding Refrigerants**

The Administrator presented on major changes in the upcoming edition and the following was discussed:

- Significant changes were shared and new annexes were discussed. There are many changes and a thorough review of the published code will be needed.
- New types of refrigerants present different risks.
- Changes in clause 6 regarding mechanical rooms may impact other disciplines, such as building, fire, electrical, and gas.
- All three recommendations resulting from the Kamloops incident investigation were introduced in B52.
- The new edition has passed the final vote and is expected to be published in January 2024.

#### **4.4 New CSA Standard for Power Plants**

There is an initiative to develop CSA B56, a new standard for power plant staffing and rating. The goal is to first provide power plant ratings and that would serve as a reference point for defining the classes for power engineers and staffing. This should help with labour mobility within Canada and help owners with staffing and training. CSA is working with the Standards Council of Canada to define the charter and seek technical committee members. They are currently seeking members to represent power engineers, owner/users as well as an educator

who is also a power engineer. The Chair will forward the letter requesting a call for participation to interested members.

#### **4.5. Working Group Reports**

##### **4.5.1. Power Engineers**

The working group discussed the Kamloops incident at the most recent meeting.

##### **4.5.2. Pressure Welders**

The working group met on October 31 and their meeting notes were posted in the Member Portal.

- The working group would like to follow up regarding pressure welder proposals. An update was requested from Municipal Affairs for discussion at a future sub-council meeting. [Council Administration]
- New business included providing clarification for wire process operator.
- The next working group meeting is planned for April 1, 2024.

##### **4.5.3. PESR Codes & Standards**

The following was discussed:

- A new edition of CGA G2.1 for anhydrous ammonia was published in January 2023 and was missed by the working group. A plan for review will be determined, but it is possible that a recommendation to Municipal Affairs may be delayed.
- Many codes are expected to be published in the near future. The working group Chair will consult with the Administrator to devise a plan and timeline for review of these codes. [Gaudet]

##### **4.5.4. PESR In-Service Equipment**

The following was discussed at the last working group meeting:

- Used equipment peddlers.
- RFI response for propane PRD servicing
- Planning to review AB-519 and AB-527
- The next meeting is tentatively planned for March.

##### **4.5.5. Hydrogen Working Group**

- The working group plans to meet every 2 months and will discuss hydrogen service.
- Reaching out to the CSA hydrogen group to see if there are opportunities to work together.

#### **4.6. AMA Report**

The Technical Advisor reported:

- The policy manager at Municipal Affairs is moving on, and current projects will be monitored to ensure continuity.
- Municipal Affairs continues to work on the unfired boilers topic, potentially through a variance, and will bring updates as available.
- The policy team has developed a draft code review policy. It was sent to the Safety Codes Council for review by staff and feedback was provided. The draft policy suggests the sub-

councils review codes within 6 months of publication and make a recommendation (adopt under timely code adoption with no changes, delay adoption, or do not adopt). The Technical Advisor recognized the timeline may be difficult to achieve in the pressure equipment discipline because of the number and size of adopted codes and welcomed input from sub-council members.

- A new edition of CGA G-2.1, which governs storage and handling of anhydrous ammonia, was published in January 2023. The Technical Advisor and Administrator will provide a summary of changes to PESC members to facilitate review of the code by December 8<sup>th</sup>.

#### 4.4. ABSA/Administrator Report

The Administrator reported on the following:

##### **Summary of Unsafe condition, accident and fire reports**

No injuries reported in the period Sep. 26, 2023 to Nov. 22, 2023.

Brief descriptions are available <https://www.absa.ca/unsafe-condition-accident-fire-reporting/summary-of-unsafe-condition-accident-fire-reports/>

##### **Information Bulletins**

IB23-040	Variance - Equivalency to Sections 4(2) and 9(1) of the Pressure Welders Regulation <a href="https://www.absa.ca/media/2445/ib23-020.pdf">https://www.absa.ca/media/2445/ib23-020.pdf</a>
IB23-041	Use of Welding Method 6 <a href="https://www.absa.ca/media/2476/IB23-041.pdf">https://www.absa.ca/media/2476/IB23-041.pdf</a>
IB23-042	Bolted Replacement Parts for Heat Exchangers <a href="https://www.absa.ca/media/2449/ib23-022.pdf">https://www.absa.ca/media/2449/ib23-022.pdf</a>
IB23-043	Variance - Use of 2023 and Later Edition of ASME Boiler and Pressure Vessel Code, Section VIII, Division 2 <a href="https://www.absa.ca/media/2477/ib23-043.pdf">https://www.absa.ca/media/2477/ib23-043.pdf</a>
IB23-044	Requirements for Cold Stretched Austenitic Stainless Steel Pressure Vessels <a href="https://www.absa.ca/media/2483/ib23-044.pdf">https://www.absa.ca/media/2483/ib23-044.pdf</a>
IB23-045	The Acceptable Use of Appendix 46 in ASME BPV Code Section VIII, Division 1 in Alberta <a href="https://www.absa.ca/media/2484/ib23-045.pdf">https://www.absa.ca/media/2484/ib23-045.pdf</a>
IB23-046	Finite Element Analysis (FEA) Requirements Regarding the Use of FEA to Support a Pressure Equipment Design Submission <a href="https://www.absa.ca/media/2488/IB23-046.pdf">https://www.absa.ca/media/2488/IB23-046.pdf</a>
IB23-047	Section 6(e)(i) of the PESR and ASME B31.1 <a href="https://www.absa.ca/media/2490/IB23-047.pdf">https://www.absa.ca/media/2490/IB23-047.pdf</a>

##### **New or Revised AB-500 Documents**

No new or revised AB-500 documents for period 2023-09-26 to 2023-11-23

##### **Codes and Standards**

###### **ASME**

- The ASME BPV Code week was held in Houston, TX from November 11<sup>th</sup> to 17<sup>th</sup>, 2023.

- Clarity rewrite is the common project for several ASME BPV Sections
- A new initiative for the 2025 edition – the goal is to review the Code for clarity and make necessary editorial changes to improve readability.

### **Section VIII**

Recently accepted code changes:

- Code Case 3078 for electrolyzers has been issued
- Code Case for fired heater treaters passed the voice vote in the November meetings and it will be published soon.

The main focus of the Committee is:

- Revision of Appendix 47
- ASME is considering removing rules for class 1 vessels from Section VIII, Division 2
- Definition of unfired steam boilers and revision of the rules
- Revising the rules for hydrostatic and pneumatic tests
- Development of code case for additive manufacturing
- Reshape project – Scope of this project includes:
  1. Provide Clarity Rewrite for VIII-1
  2. Create new Subsection D – “Requirements for Specific Pressure Vessels and Components”
    - A. Part UHX
    - B. Part UIG
    - C. Various Mandatory and Nonmandatory Appendices (5, 13, 17, 19, 22, 26, 27, 45, EE, FF)
  3. Utilize Common Rules by referring to Division 2 for specific Design Rules
    - A. Part UHX and Appendix 26 published in the 2023 Edition
    - B. Additional work for the 2025 Edition (Appendices 2, 5, 9, 13, 14, 24, EE, FF & LL)
  4. Technology Upgrades
    - A. Load combinations
    - B. External Loads
  5. Complete transition of Accreditation, Quality and Nameplate requirements to CA-1
  6. Combine Part UHA and Part UNF into a single Part

### **CSA B51**

- The public review was closed on September 29<sup>th</sup>, 2023.
- Several public review comments were related to carbon steel toughness requirements.
- CSA B51 TC prepared the responses to all public review comments.
- The final ballot is expected to be opened in December 2023.
- The next edition of CSA B51 is scheduled for first quarter of 2024.

### **CSA B52**

- The proposal for the new edition of CSA B52 passed the final ballot unanimously.
- The next edition of CSA B52 is scheduled for December 2023 or January 2024.

### **CSA B56**

- CSA started a process to develop and publish a new standard for power plant staffing and rating.

- CSA is in process to forming a new committee.

#### **CSA Z662**

- The 2023 edition of Z662 was published in June 2023.
- The next CSA Z662 Technical Committee (TC) meeting is scheduled for December 4<sup>th</sup> and 5<sup>th</sup> in Victoria, BC.
- The committee will start working on the code updates for the 2027 Edition.

#### **4.5. Council Updates**

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

- The Council will be holding a holiday open house on Thursday, December 7th, 3:00 p.m. to 6:00 p.m. at the Council office. An email invitation has been sent—please be sure to RSVP!
- The Council Member satisfaction survey will be sent out this fall in conjunction with the Council's annual stakeholder survey. Please watch your email and take a few moments to complete the survey when you receive it.

### **5. Meeting Finalization**

#### **5.1. Round Table**

- Members confirmed they are welcome to share the presentation on the Kamloops incident.

#### **5.2. Next Meeting**

The next meeting was reconfirmed for January 11, 2024, at the Council office at 9:00 a.m.

#### **5.3. Meeting Adjournment**

**Billy Lee/Jim Rice moved to adjourn the meeting; CARRIED**

The meeting was adjourned at 1:57 p.m.

– NEW ACTION ITEMS –

**4.5.2. Pressure Welders**

The working group would like to follow up regarding pressure welder proposals. An update was requested from Municipal Affairs for discussion at a future sub-council meeting.

[Council Administration]

**4.5.3. PESR Codes & Standards**

Many codes are expected to be published in the near future. The working group Chair will consult with the Administrator to devise a plan and timeline for review of these codes.

[Gaudet]



**– MOTIONS –**

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**5.3. Meeting Adjournment**

**Billy Lee/Jim Rice moved to adjourn the meeting; CARRIED**

**– WORKING GROUP MEMBER LISTS –**

<b>WORKING GROUP</b>	<b>WORKING GROUP MEMBERS (Chair)</b>
Power Engineers	<b><u>Tony McWhannel</u></b> Bert Boulet, Henry Hau, Danielle Woroniuk, Jim Rice, Mike Lyne, Todd Loran, John Wolff, David Miller, Warren Kmicik ABSA support: Mike Poehlmann AMA support: Nick Monea
Pressure Welders	<b><u>Billy Lee</u></b> Nyssa Moore, Jacques St-Onge, Robert James, Nate Bartley, Henry Hau, Justin MacNeil, Rick Walmsley, Matt Yarmuch ABSA support: Mike Prefumo, Jason Reinhart AMA support: Nick Monea
PESR Codes and Standards, Design Registration and Shop Inspections	<b><u>Greg Gaudet (Chair), Diederick Godin (Vice Chair)</u></b> Henry Hau, Billy Lee, Tony McWhannel, David Miller, Eric Madsen, Jim B. Seale, Neil McKay, Shawn Morrison, Trevor Seipp, Kelly Bell ABSA support: Djordje Sronic AMA support: Nick Monea
PESR In-Service Inspections, Repairs & Alterations, and PEIM Program	<b><u>Nyssa Moore (Chair), Diederick Godin (Vice Chair)</u></b> Greg Gaudet, Henry Hau, Todd Loran, Jacques St-Onge, John Wolff, Nate Bartley, Jim Rice, Dean Kovacs, Dean Kovacs AMA support: Nick Monea ABSA support: Mike Prefumo
Hydrogen in Pressure Equipment	<b><u>Nathan Bartley (Chair), Billy Lee (Vice Chair)</u></b> Warren Kmicik, Nyssa Moore, Elaine Wasylenchuk, Robert James, Henry Hau, Greg Gaudet, Tony McWhannel, Jarred Henkelman, Ryan Chaisson, Tony Pancerella, Jordan Kiesman, Iulian Radu, Tim Erickson, Eric Dowdle ABSA support: Lou Petrusovski, Mike Prefumo AMA support: Nick Monea