



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

**DATE:** March 16, 2023

**TIME:** 9:05 a.m. to 12:26 p.m.

**LOCATION:** Videoconference

**PRESENT:** *Sub-Council Members*  
Henry Hau, Chair  
Nate Bartley  
Bert Boulet  
Robert James  
Warren Kmicik  
Geoff Kutz  
Billy Lee, Vice Chair  
Justin Macneil  
Nyssa Moore  
Jim Rice  
Jacques St-Onge  
Elaine Wasylenchuk

*Safety Codes Council*  
Allison Karch, Jennifer Johnson

*Alberta Municipal Affairs*  
Nick Monea

*ABSA*  
Djordje Srnic

**REGRETS:** Greg Gaudet, Diederick Godin, Tony McWhannel, Danielle Woroniuk

**GUESTS:** Matthew Yarmuch, AWOOC

**RECORDER:** Jennifer Johnson

**2023 MEETINGS:** May 4, September 26, November 23

## 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

The following item was added to the agenda:

- Item 2.3 Nomination for member to represent Large Refinery and Petrochemical Sites

**Elaine Wasylenchuk/Robert James moved that the agenda be adopted, as amended; CARRIED**

### 1.2 Adoption of the January 12, 2023 Minutes

**Geoff Kutz/Nyssa Moore moved to adopt the minutes of the January 12, 2023, meeting, as circulated; CARRIED**

## 2. Matters for Decision

### 2.1. Feedback on AB-513 and AB-526

ABSA's request for feedback on AB-513 and AB-526 was brought up at a past sub-council meeting and feedback was provided from individual members as well as through working groups. The sub-council reviewed and approved the compiled feedback.

It was noted that there could be unintended consequences of the use of the words "engineered" and "certified"; the sub-council will add discussion of these terms as a future agenda item. [Council Staff]

**Warren Kmicik/Nyssa Moore moved to submit feedback on AB-513 as captured to ABSA; CARRIED**

**Nathan Bartley/Geoff Kutz moved to submit feedback on AB-526 as captured to ABSA; CARRIED**

### 2.2. Review of ASME B31.12 – determine whether to form an ad-hoc working group or assign to the Codes & Standards Working Group along with a timeline for completion

The following was discussed:

- The Administrator explained that B31.12 will impact many areas and requires a thorough review.
- The group should include experts on hydrogen to allow for proper assessment of the document.
- Council staff suggest creating an ad hoc working group because of the current and upcoming workload of the existing Codes & Standards Working Group and the need for outside expertise specific to this code.
- ABSA stated they are seeing a higher volume of inquiries about use of this code and are currently reviewing internally to determine how they could accept it on a case-by-case basis, but this would be a tedious and inefficient process.

- The working group will meet and establish a deadline for the group’s final report before the next PESC meeting. [Bartley]

**Warren Kmicik/Nathan Bartley moved to form a working group to review ASME B31.12 and develop recommendations on adoption; CARRIED**

**Geoff Kutz/ Robert James moved that membership of the working group include Nathan Bartley (as Chair), Billy Lee (as Vice Chair), Warren Kmicik, Nyssa Moore, Elaine Wasylenchuk, Robert James, Henry Hau, Jarred Henkelman, other industry participants as required, and support from ABSA and Municipal Affairs as required; CARRIED**

**2.3. Closed Session**

**Robert James/Billy Lee moved to enter into closed session; CARRIED**

**Jim Rice/Geoff Kutz moved to exit closed session; CARRIED**

**2.1.1. Nomination of Dean Kovacs to represent Large Refinery and Petrochemical Sites**

**Jim Rice/Justin MacNeil moved to recommend to the Board appointment of Dean Kovacs to the Pressure Equipment Sub-Council to represent Large Refinery and Petrochemical Sites for a term ending January 31, 2026, effective immediately; CARRIED**

**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 with Council staff on arranging a future presentation.	Sept 8/22	Council Admin/ Prefumo	A presentation is planned for the May 4, 2023 meeting (rescheduled from March 16, 2023 due to presenter’s availability).
2.	PESC Work Planning	The Chair requested that members review the <a href="#">list of potential discussion topics</a> 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	The Contract Chief Inspectors representative will go back to the	Nov 3/22	Bartley	Nathan will give a presentation at the

	Inspectors industry segment	nominating organization to find out if adding NDT to the skills matrix is appropriate for that seat.			September meeting. Remove from Action List.
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#### 4. Matters for Discussion

##### 4.1. Code Change to ASME BPVC Section VIII Division 1 – move of design rules for UHX and Appendix 26 from Div.1 to Div.2 (approved for 2023 edition)

The following was discussed:

- The Administrator shared the following table explaining UHX revisions and identifying potential issues.
  - As this is an important change that will impact Alberta industry, members were asked to consult their industry segment groups and bring forward and concerns/industry impacts.
- [All]

the 2021 Edition of the ASME Section VIII, Division 1 Part UHX	The proposal for the 2023 Edition of the ASME Section VIII, Division 1 Part UHX
<p>Part UHX includes the requirements for</p> <ul style="list-style-type: none"> <li>- design,</li> <li>- fabrication, and</li> <li>- inspection</li> </ul> <p>of shell-and-tube heat exchangers.</p> <p><b>Note:</b> Part UHX design rules are identical to Section VIII, Division 2 Paragraph 4.18.</p>	<p>Part UHX will include the requirements for</p> <ul style="list-style-type: none"> <li>- design by pointing to Section VIII, Division 2 Paragraph 4.18 as appropriate,</li> <li>- fabrication, and</li> <li>- inspection</li> </ul> <p>of shell-and-tube heat exchangers.</p> <p><b>Notes (additional important messages that the article should provide and are related to the 2023 edition):</b></p> <ul style="list-style-type: none"> <li>- The 2023 edition of ASME BPVC Section VIII, Division 1 will remove design rules that are common to Section VIII Divisions 1 and 2, and point to Section VIII, Division 2 Paragraph 4.18 as appropriate.</li> <li>- After the change is introduced in the 2023 Edition of the code, design requirements for shell-and-tube heat exchangers in Section VIII, Division 2 Paragraph 4.18 shall be used in lieu of design rules currently listed in Part UHX.</li> <li>- In order to help the code users, Table UHX-1.1 refers to the new locations for all requirements formerly located in Section VIII, Division 1.</li> <li>- The code users are cautioned that certain Section VIII, Division 1 design requirements (e.g. allowable compressive stresses per UG-23(b)) must be used in lieu of the corresponding Section VIII, Division 2 design requirements referenced in Paragraph 4.18. Users shall use Table UHX-1.2 as cross reference.</li> <li>- When Part UHX section, paragraph, table, or graph is referenced, the applicable section of Section VIII, Division 2 shall be used in accordance with UG-16(a) and Mandatory Appendix 46, except as indicated in Table UHX-1.2.</li> </ul>

## 4.2. Working Group Reports

The following changes to working groups were announced:

- ABSA participant on the Power Engineers Working Group was changed to Tom Lemming.
- ABSA participant on the Codes & Standards Working Group was changed to Lou Petrusovski.
- Danielle Woroniuk asked to be removed from the N285 Working Group.

### 4.2.1. Power Engineers

The following was discussed:

- The group is discussing shifting to 960 hours needed for certification rather than 6 months to recognize those doing shift work who accumulate more than 40 hours per week.
- The group is discussing dual streams between heating plants and power plants and the opportunity for issuance of a 4<sup>th</sup> class certificate if the candidate has 18 months experience in a heating plant greater than 750 kW.

### 4.2.2. Pressure Welders

The following was discussed:

- The working group had one meeting to review input on AB-513 and AB-526 as per ABSA's request.

### 4.2.3. PESR Codes & Standards

No update as this group hasn't met since the last PESC meeting.

### 4.2.4. PESR In-Service Equipment

The following was discussed:

- The working group met to review input on AB-513 and AB-526 as per ABSA's request.
- Diederick Godin will take on the role of Chair temporarily following Geoff Kutz's retirement.

### 4.2.5. CSA N285.0

The following was discussed:

- The working group is going through the document section by section to compare and contrast differences and identify impacts.
- Approximately halfway done, anticipate being complete prior to the next sub-council meeting.

## 4.3. AMA Report

The Technical Advisor reported the following:

- Canadian Hydrogen Installation Code
  - The Gas Sub-Council supported adoption of the Hydrogen Installation Code BNQ-1784 2022 on Feb 6, 2022. This may be adopted through regulation later this year.
  - There is scope overlap with the Pressure Equipment discipline that requires consideration and review.

- I have finished a preliminary review and will discuss any comments and concerns with ABSA to bring back to the Gas Administrator for consideration.
- Advanced Education
  - Still working towards getting clarification on the potential over reach by the Skilled Trades and Apprenticeship Education Act, have the first follow up meeting scheduled for next month.
- Working group policy guidance document
  - I have completed a draft guidance procedure to assist with clearly identify issues and capturing completed work. This will help provide consistency between all the working groups and could be used by all sub-councils.
  - This was provided to the Council for their final review and discretion to utilize the document.

#### 4.4. ABSA/Administrator Report

The Administrator reported the following:

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

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

##### Information Bulletins

IB23-001	Requirements for Thermal Liquid Heating Systems <a href="https://www.absa.ca/media/2422/ib23-001.pdf">https://www.absa.ca/media/2422/ib23-001.pdf</a>
IB23-002	ASME CSD-1 <a href="https://www.absa.ca/media/2421/ib23-002.pdf">https://www.absa.ca/media/2421/ib23-002.pdf</a>
IB23-003	Requirements for Reduced Supervision in accordance with the PER <a href="https://www.absa.ca/media/2426/ib23-003.pdf">https://www.absa.ca/media/2426/ib23-003.pdf</a>
IB23-004	Requirements for Engineered Pressure Enclosures <a href="https://www.absa.ca/media/2427/ib23-004.pdf">https://www.absa.ca/media/2427/ib23-004.pdf</a>
IB23-005	Reference Syllabi for Power Engineer Examination <a href="https://www.absa.ca/media/2428/ib23-005.pdf">https://www.absa.ca/media/2428/ib23-005.pdf</a>

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

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

		Edition	Revision	Published
AB-537	<i>Thermal Liquid Heating System (TLHS) Requirements</i>	1	3	2023-01-13
AB-528	<i>Requirements for Reduced Supervision of Power Plants, Thermal Liquid Heating Systems, and Heating Plants</i>	4	1	2023-02-23

AB-539	<i>Engineered Composite Systems for Pressure Equipment Alterations</i>	1	1	2023-02-24
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## **Codes and Standards**

### **ASME**

ASME BPV Code week was held in Miami, FL from February 5<sup>th</sup> to 10<sup>th</sup>, 2023 for Sections VIII and IX Committees. The other ASME committees had virtual meetings in that week. Highlights include:

#### **Technical Oversight Management Committee (TOMC)**

- After February meetings, ASME will have one virtual code week meetings (August 2023) and two code weeks meetings in person (May and November, 2023)
- The next Code Committee Week meetings will be held in Las Vegas from May 14 to 19, 2023. ASME and NB will have joint meetings.
- The committees started work on the development of the 2025 Edition of the code.

#### **ASME Boiler and Pressure Vessel Code (BPVC) Section VIII**

##### BPV VIII Standards Committee

- 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.
- The Scope of the Reshape Project was defined in the February meetings – Highlights include:
  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 Non Mandatory Appendices
  3. Utilize Common Rules by referring to Division 2 for specific Design Rules
    - A. Part UHX and Appendix 26 set for 2023 Edition
    - B. Additional work for 2025 Edition
  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
- George Rowls reported that TG on Additive Manufacturing (AM) is preparing Code Case for AM. Presentation was provided 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 Piping Codes**

- B31.1:2022 issued on 2022-10-10
  - B31.1 summary of changes provided as attachment to this report
- ASME B31.3-2022 was issued on January 31, 2023
- ASME B31.5-2022 was issued on January 20, 2023

- The 2022 Edition has only four changes that should not have impact on the code adoption process
  - New paragraph 538.4.4 *Closure Welds* was added
- 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 change 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:

- TSC 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.
- TSC 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
- TSC 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.
- 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. The plan is to issue CSA B51 TC ballot before the end of March 2023.
- 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.

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; 5.7.1; 5.7.3; & 5.8 to revise the exemptions and allow the use of UL standards
- New Annex M – new tables of refrigerants from ASHRAE 34, and new guidance on capacity calculations (Clause 7.3.4)

The next edition of CSA B52 is scheduled for first quarter of 2024.

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

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

- Member training (Effective Meetings Workshop and Appeals Training) will be offered in 2023—dates will be circulated by email once confirmed. This training is required for new members and open to any members who have not yet taken it or would like a refresher.
- The Council’s AGM and Member Appreciation event is being held in person in Edmonton on May 26, 2023 at the Delta South Edmonton. All members are encouraged to attend as it’s our way to say thank you for all the hard work you do as members throughout the year.
  - A calendar invite has been sent to all sub-council members.
  - Members are eligible for reimbursement of travel expenses in accordance with the Council Member Expense Procedure and Council’s [Travel Expense Policy](#).
  - The AGM package will be distributed in May.
  - Award nominations are now open and members are encouraged to nominate fellow sub-council members [here](#).
  - Nominations for the Dr. Sauer Award are being accepted until March 15, 2023. Please submit nominations using the link above.
  - Please register for the AGM/Member Appreciation by April 21 [with this link](#).
- The September and November 2023 PESC dates will be changing; please watch your calendar invitations for confirmation of the new dates.

## **5. Meeting Finalization**

### **5.1. Round Table**

- Safety moments were shared.

### **5.2. Next Meeting**

The next meeting was reconfirmed for May 4, 2023, at the Council office at 9:00 a.m.

### **5.3. Meeting Adjournment**

The meeting was adjourned at 12:26 p.m.

– NEW ACTION ITEMS –

**2.1. Feedback on AB-513 and AB-526**

It was noted that there could be unintended consequences of the use of the words “engineered” and “certified”; the sub-council will add discussion of these terms as a future agenda item. [Council Staff]

**2.2. Review of ASME B31.12 – determine whether to form an ad-hoc working group or assign to the Codes & Standards Working Group along with a timeline for completion**

The working group will meet and establish a deadline for the group’s final report before the next PESC meeting. [Bartley]

**4.1. Code Change to ASME BPVC Section VIII Division 1 – move of design rules for UHX and Appendix 26 from Div.1 to Div.2 (approved for 2023 edition).**

As this is an important change that will impact Alberta industry, members were asked to consult their industry segment groups and bring forward and concerns/industry impacts. [All]

**– MOTIONS –**

**1.1 Agenda Adoption**

**Elaine Wasylenchuk/Robert James moved that the agenda be adopted, as amended; CARRIED**

**1.2 Adoption of the January 12, 2023 Minutes**

**Geoff Kutz/Nyssa Moore moved to adopt the minutes of the January 12, 2023, meeting, as circulated; CARRIED**

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**Geoff Kutz/ Robert James moved that membership of the working group include Nathan Bartley (as Chair), Billy Lee (as Vice Chair), Warren Kmicik, Nyssa Moore, Elaine Wasylenchuk, Robert James, Henry Hau, Jarred Henkelman, other industry participants as required, and support from ABSA and Municipal Affairs as required; CARRIED**

**2.3. Closed Session**

**Robert James/Billy Lee moved to enter closed session; CARRIED**

**Jim Rice/Geoff Kutz moved to exit closed session; CARRIED**

**2.1.1. Nomination of Dean Kovacs to represent Large Refinery and Petrochemical Sites**

**Jim Rice/Justin MacNeil moved to recommend to the Board appointment of Dean Kovacs to the Pressure Equipment Sub-Council to represent Large Refinery and Petrochemical Sites for a term ending January 31, 2026, effective immediately; CARRIED**

– WORKING GROUP MEMBER LISTS –

<b>WORKING GROUP</b>	<b>WORKING GROUP MEMBERS (<u>Chair</u>)</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: Mike Poehlmann AMA support: Nick Monea
Pressure Welders	<b><u>Billy Lee</u></b> Geoff Kutz, Nyssa Moore, Jacques St-Onge, Robert James, Nate Bartley, Henry Hau, Justin MacNeil, Rick Walmsley, Matt Yarmuch ABSA: Mike Prefumo, Jason Reinhart AMA support: Nick Monea
PESR Codes and Standards, Design Registration and Shop Inspections	<b><u>Greg Gaudet</u></b> Henry Hau, Billy Lee, Tony McWhannel, Diederick Godin, David Miller, Eric Madsen, Jim B. Seale, Neil McKay, Shawn Morrison, Trevor Seipp, Kelly Bell ABSA: Lou Petrushevski AMA support: Nick Monea
PESR In-Service Inspections, Repairs & Alterations, and PEIM Program	<b><u>Geoff Kutz</u></b> Greg Gaudet, Henry Hau, Todd Loran, Nyssa Moore, Jacques St-Onge, John Wolff, Nathan Bartley, Diederick Godin (Vice Chair), Jim Rice ABSA: Mike Poehlmann, Mike Prefumo AMA support: Nick Monea
CSA N285.0	<b><u>Nyssa Moore</u></b> Jack St.Onge, Henry Hau, Diederick Godin, Greg Gaudet External: Louis Shoukas, Randy Gleave, Lee Lama ABSA support: Mike Prefumo, Robin Antoniuk AMA support: Nick Monea
Review of ASME B31.12	<b><u>Nathan Bartley (Chair), Billy Lee (Vice Chair)</u></b> Warren Kmicik, Nyssa Moore, Elaine Wasylenchuk, Robert James, Henry Hau, Jarred Henkelman, other industry participants as required, and support from ABSA and Municipal Affairs as required