



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

DATE: September 26, 2023

TIME: 9:12 a.m. to 4:09 p.m.

LOCATION: Safety Codes Council Office

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

Safety Codes Council
Allison Karch, Jennifer Johnson

Alberta Municipal Affairs
Nick Monea

ABSA
Robin Antoniuk, Djordje Srnic, Tom Lemming

REGRETS: Jim Rice, Jacque St. Onge, Elaine Wasylenchuk

GUESTS: Matt Yarmuch, AWOC; Jim Weiss

RECORDER: Jennifer Johnson

2023 MEETINGS: November 23

1. Meeting Opening

The Chair called the meeting to order at 9:12 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

Nate Barley/Billy Lee moved that the agenda be adopted, as circulated; CARRIED

1.2 Adoption of the May 4, 2023 Minutes

Dean Kovacs/Billy Lee moved to adopt the minutes of the May 4 meeting, as circulated; CARRIED

2. Matters for Decision

2.1. Closed Session

Nyssa Moore/Diederic Godin moved to enter into closed session; CARRIED

Diederic Godin/Dean Kovacs moved to exit closed session; CARRIED

2.1.1. Matrix Review

This item was deferred to the next meeting because of time constraints.

2.1.2. Nomination of Denis Lepage and Shannon Calder to represent Construction and Maintenance of Pressure Equipment

Billy Lee/ Deideric Godin moved to recommend to the Board appointment of Denis Lepage to the Pressure Equipment Sub-Council to represent Construction and Maintenance of Pressure Equipment for a term ending January 31, 2027, effective February 1, 2024.

2.1.3. Reappointment of Bert Boulet to represent Building and Heating Plants

Nate Bartley/Dean Kovacs moved to recommend to the Board reappointment of Bert Boulet to the Pressure Equipment Sub-Council to represent Building and Heating Plants for a term ending January 31, 2027, effective February 1, 2024; CARRIED

2.1.4. Reappointment of Greg Gaudet to represent Heavy Oil Sands

Dean Kovacs/Tony McWhannel moved to recommend to the Board reappointment of Greg Gaudet to the Pressure Equipment Sub-Council to represent Heavy Oil Sands for a term ending January 31, 2027, effective February 1, 2024; CARRIED

2.1.5. Reappointment of Tony McWhannel to represent Pulp and Paper Industry

Greg Gaudet/Robert James moved to recommend to the Board appointment of Tony McWhannel to the Pressure Equipment Sub-Council to represent Pulp and Paper Industry for a term ending January 31, 2027, effective February 1, 2024; CARRIED

3. Review Matters Arising/Action List

	Item	Action	Date Initiated	Responsible	Status/Update
1.	Presentation on NDT	Nathan Bartley will give a presentation on NDT at the September meeting.	Mar. 16/23	Bartley	See item 4.1.

4. Matters for Discussion

4.1. Presentation on Non-Destructive Examination (NDE)

Nate Bartley provided a presentation on NDE and the following was discussed:

- There are many different certification schemes and many different NDE methods.
- There seems to be confusion in the industry of when it's required and when it's not.
- At one point, ASME attempted to introduce a standardized certification program but that's no longer being discussed.
- If the sub-council chose to add NDE as an industry segment on its matrix, it would need to consider what group would be appropriate to represent this segment.

4.2. Trends in Power Engineering Exams and Registration

The following was discussed:

- This year's achievements were reviewed: 261 examination papers are constructed each year, 292 long answer questions were revised/added, 640 multiple choice questions were revised/added.
- Question review workshops took place in Alberta, Manitoba, and Nova Scotia.
- An interprovincial committee for curriculum changes for all classes of power engineering examinations is being established.
- 14 year trends for total examinations attempted per class were shared.
- The chief power engineers conference will take place in Edmonton on October 23 and 24th.

4.3. AB-500 Document Review Process

This item was deferred.

4.4. Working Group Reports

4.4.1. Power Engineers

The following was discussed:

- The working group identified some items that were out of scope, such as review of the Power Engineering Regulation.
- Still working on the unfired boilers definition.

4.4.2. Pressure Welders

The following was discussed:

- The working group did not meet over the summer but will be meeting in October to review the three column document.

4.4.3. PESR Codes & Standards

The following was discussed:

- Working group met in June and reviewed changes to ASME B31.3, and no concerns were identified.
- The group is planning more meetings to review upcoming codes as well.
- The Administrator provided information on the changes to ASME B31.1 and B31.5; these changes are minor and not seen as an obstacle to code adoption.
- The sub-council noted that it would be helpful if the Administrator could publish an Information Bulletin outlining appendix changes in B31.1.

Greg Gaudet/Diederick Godin moved to recommend adoption of ASME B31.1 2022 edition as published; CARRIED.

Greg Gaudet/Diederick Godin moved to recommend to the Pressure Equipment Administrator that an Information Bulletin be drafted to clarify appendix changes in the code; CARRIED.

Greg Gaudet/Tony McWhannel moved to recommend adoption of ASME B31.5 2022 edition as published; CARRIED.

Greg Gaudet/Diederick Godin moved to recommend adoption of ASME B31.3 2022 edition as published; CARRIED.

4.4.4. PESR In-Service Equipment

The following was discussed:

- The working group met on September 6th and topics discussed included used equipment, B31.2 and B31.5 at owner/user sites, and propane pressure relief device servicing.
- The next meeting is November 29th.

4.4.5. CSA N285.0

The following was discussed:

- This working group was formed in response to a letter sent to the sub-council in 2022 requesting the group to consider the adoption of CSA N285.0
- The group reviewed the code. Given the limitations of the group's expertise, no recommendations were made. Because the proponents were invited to participate on the working group and all meeting notes and reports were circulated to them for review, no further action is required at this time.

Nyssa Moore/Diederick Godin moved to close the CSA N285.0 working group; CARRIED with one abstention (Billy Lee) and one opposed (Nate Bartley).

4.4.6. ASME B31.12

The following was discussed:

- The working group has met 6 times and has identified gaps and challenges.
- Industry players have a fair bit of experience but as hydrogen becomes more popular and parties with less experience become increasingly involved there need to be clear guidelines and requirements.
- ASME plans to retire B31.12 in the coming years and will migrate relevant requirements into other B31 codes.

Nate Bartley/Billy Lee moved to change the scope of the working group to hydrogen as it relates to pressure equipment; CARRIED.

4.5. AMA Report

The Technical Advisor reported:

- Executive department staff have been working on the timeline and schedule requirements for codes that are automatically adopted. The ideal timeline is to have review and recommendations completed 6 months after publication.
- Given there are a large number of codes to review in the near future, prioritization and risk management may need to be discussed.
- The new procedure will include releasing STANDATA Information Bulletin to identify when new codes are published and come into force.
- An amendment to the Power Engineer Safety Regulation adjusts the Professional Engineer definition to match APEGA's.
- A joint STANDATA with the gas discipline regarding old propane storage vessels will be issued.

4.6. ABSA/Administrator Report

The Administrator reported:

Summary of Unsafe condition, accident and fire reports

Five people were injured in two separate accidents:

- 2023-05-04 – Four people were injured - An employee manipulated a valve at an ammonia loading station resulted in a release of ammonia. This incident was not caused by a failure of pressure equipment; rather, mis-operation of a valve within an ammonia loading system.
- 2023-07-02 – One person was injured - A deviation from operating procedure resulted in a gas leak and subsequent explosion in a separator building.

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

Information Bulletins

IB23-019	Requirements for Thermal Liquid Heating Systems https://www.absa.ca/media/2447/ib23-019.pdf
IB23-020	Integrity Management Systems for Mechanical Refrigeration Systems Containing Ammonia https://www.absa.ca/media/2445/ib23-020.pdf
IB23-021	Coils in Pressure Vessels https://www.absa.ca/media/2448/ib23-021.pdf
IB23-022	Heating/Cooling Coils in Non-Code Storage Tanks

	https://www.absa.ca/media/2449/ib23-022.pdf
IB23-023	Owner's Designation of Chief Power Engineer for Rotational Duty Assignments https://www.absa.ca/media/2452/IB23-023.pdf
IB23-024	Power Engineer Certification Candidates with Qualifying Experience from Outside of Alberta https://www.absa.ca/media/2453/IB23-024.pdf
IB23-025	Electronic Log Book Power Engineers Regulation https://www.absa.ca/media/2451/IB23-025.pdf
IB23-026	Alert - Kamloops Ammonia Release Investigation Report https://www.absa.ca/media/2454/IB23-026.pdf
IB23-027	Power Plant not exceeding 0.085 m ³ https://www.absa.ca/media/2456/ib23-027.pdf
IB23-028	Temporary Tack Welds https://www.absa.ca/media/2457/ib23-028.pdf
IB23-029	Permanent Tack Welds https://www.absa.ca/media/2458/ib23-029.pdf
IB23-030	Use of ISO 16528 in Alberta https://www.absa.ca/media/2459/ib23-030-interpretation-use-of-iso-16528-in-alberta.pdf
IB23-031	IB23-031 Variance (VA23-006) to Pressure Tack Welder Examination Eligibility https://www.absa.ca/media/2461/ib23-031.pdf
IB23-032	In-Service Pressure Equipment Inspector Certificate of Competency https://www.absa.ca/media/2460/ib23-032.pdf
IB23-033	Pressure Equipment Repair and Alteration Requirements https://www.absa.ca/media/2462/IB23-033.pdf
IB23-034	Emergency Discharge of Refrigerants - CSA B52 Annex B https://www.absa.ca/media/2463/ib23-034.pdf
IB23-035	Design Registration of Components used in Mechanical Refrigeration Systems https://www.absa.ca/media/2464/ib23-035.pdf
IB23-036	Authority Having Jurisdiction for CSA B52 https://www.absa.ca/media/2465/ib23-036.pdf
IB23-037	"Pipe Expanders" https://www.absa.ca/media/2466/ib23-037.pdf
IB23-038	Design Registration and Certificate of Inspection Permits for Hot Water Storage Tanks and Heaters https://www.absa.ca/media/2471/ib23-038.pdf
IB23-039	New CRN Format https://www.absa.ca/media/2472/ib23-039.pdf

Information Bulletins Update Project

Information bulletins (IB) are issued by the Administrator and Chief Inspector to provide safety and compliance information to ABSA’s interested parties.

Information Bulletins are published on ABSA’s website: <https://www.absa.ca/information-bulletins/>

There are five (5) different types of information bulletins posted on ABSA’s website. They are:

- Alert
- Interpretation
- Notification (information)
- Variance
- Withdrawn

More about types of information bulletins are provided on ABSA’ webpage

<https://www.absa.ca/about-absa/absa-information/types-of-information-bulletins/>

Information bulletins are reviewed at a maximum of 5 years from date of issue and dispositioned by:

- re-issuing with reaffirmation;
- re-issuing with revision; or
- withdrawing

Exemptions

- Alerts and small number of information bulletins (e.g. IBs issued jointly with other Jurisdictions) are reviewed at the 5 years interval but they are not re-issued

Information Bulletins Update Project

Reviewed approximately 150 Information Bulletins

- 44 – Alerts
- 100+ – Other Information Bulletins

Results of the Information Bulletins Update project

- 9 – IBs withdrawn without issuing new IBs
- 42 – IBs reviewed for reaffirmation or revision (36 reissued, 6 in the process of reissuing)
- Other IBs have been found to be current

New or Revised AB-500 Documents

No new or revised AB-500 documents for period 2023-05-04 to 2023-09-26

		Edition	Revision	Published
AB-537	<i>Thermal Liquid Heating System Requirements</i>	2	0	2023-05-05
AB-538	<i>Integrity Management Requirements For Mechanical Refrigeration Systems Containing Ammonia</i>	2	0	2023-05-05
AB-526	<i>In-Service Pressure Equipment Inspector Certification Requirements</i>	3	1	2023-07-31
AB-523	<i>Pressure Equipment Repair and Alteration Requirements</i>	4	0	2023-08-15

Codes and Standards

ASME

- The next ASME BPV Code week will be held in Houston, TX from November 12th to 17th, 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

The main focus of the Committee is:

- Revision of Appendix 47
- Definition of unfired steam boilers and revision of the rules
- Development of code case for electrolysers
- Development of code case for fired heater treaters
- 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 (Appendixes 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

ASME B31.12

ASME B31.12 Section Committee approved the following action in July 2023:

Move relevant requirements for hydrogen piping and pipelines from B31.12 to B31.3 and B31.8 and withdraw B31.12 after the move is completed.

CSA B51

- The CSA B51 Technical Committee (TC) met on May 9th, 2023 (virtual meeting) and in Halifax on September 15th, 2023.
- The CSA B51 draft for public review was approved in the May meeting.
- The public review was opened on July 29th, 2023 and will close on September 29th, 2023.
- The focus of the second meeting was timing and synchronization of activities (e.g. disposition of public review comments, editorial work, final ballot) for publication of the new edition.
- The next edition of CSA B51 is scheduled for first quarter of 2024.

CSA B52

- The CSA B52 Technical Committee (TC) met in Halifax on September 14th, 2023 and reviewed dispositions of the public review comments. The public review was closed on August 4th, 2023.
- The next edition of CSA B52 is scheduled for December 2023 or January 2024.

CSA Z662

- The 2023 edition of Z662 was published in June 2023.
- The CSA Z662 Technical Committee (TC) met in Halifax on June 14th to 16th, 2023 and discussed priorities for the next code development cycle.

Follow up from the March PESC meeting:

ASME Piping Codes

- B31.1:2022 issued on 2022-10-10
 - B31.1 summary of changes provided in the PESC March meeting includes two files:
 - ASME B31.1 2022 Edition – Summary of Changes (WD# 1333106)
 - ASME B31.1 2022 Edition – Appendices (WD# 1335006)
- 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

4.7. Council Updates

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

- Member Training will be held on Wednesday, November 8, via Zoom. Please contact Gerry Letendre to register.
 - New members are required to take this training. All members are welcome to attend if they would like a refresher.
 - Member training offerings have been revised to include both appeals training and effective meetings training in the same full-day session.
- 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

- The In-Service Inspection Working Group are to provide input on AB-527 and the Pressure Welder Group are to provide input on AB-519. This input is to be completed prior to the January sub-council meeting in order to provide feedback to ABSA prior to the deadline of end of March 2024.
- Request from the Chair that members consider appointing a new Chair in 2024 prior to Henry's retirement to help facilitate succession planning and allow some overlap for mentoring whoever takes on the role.

5.2. Next Meeting

The next meeting was reconfirmed for November 23, 2023 at 9:00 a.m. via videoconference.

5.3. Meeting Adjournment

Dean Kovacs/Diederick Godin moved to adjourn the meeting; CARRIED

The meeting was adjourned at 4:09 p.m.

– MOTIONS –

1.1 Agenda Adoption

Nate Barley/Billy Lee moved that the agenda be adopted, as circulated; CARRIED

1.2 Adoption of the May 4, 2023 Minutes

Dean Kovacs/Billy Lee moved to adopt the minutes of the May 4 meeting, as circulated; CARRIED

2.1. Closed Session

Nyssa Moore/Diederic Godin moved to enter into closed session; CARRIED

Diederic Godin/Dean Kovacs moved to exit closed session; CARRIED

2.1.2. Nomination of Denis Lepage and Shannon Calder to represent Construction and Maintenance of Pressure Equipment

Billy Lee/ Deideric Godin moved to recommend to the Board appointment of Denis Lepage to the Pressure Equipment Sub-Council to represent Construction and Maintenance of Pressure Equipment for a term ending January 31, 2027, effective February 1, 2024.

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4.4.6. ASME B31.12

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5.3. Meeting Adjournment

Dean Kovacs/Diederic Godin moved to adjourn the meeting; CARRIED

– 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
Pressure Welders	<u>Billy Lee</u> 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 (Vice Chair), Kelly Bell ABSA: Djordje Srnica
PESR In-Service Inspections, Repairs & Alterations, and PEIM Program	<u>Diederick Godin</u> Greg Gaudet, Henry Hau, Todd Loran, Nyssa Moore, Jacques St-Onge, John Wolff, Nate Bartley, Jim Rice, Dean Kovacs ABSA: Mike Prefumo
Review of ASME B31.12	<u>Nathan Bartley (Chair), Billy Lee (Vice Chair)</u> 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: Mike Prefumo AMA support: Nick Monea