



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

DATE: November 3, 2022

TIME: 9:04 a.m. to 2:08 p.m.

LOCATION: Videoconference

PRESENT: *Sub-Council Members*

Henry Hau, Chair
Nate Bartley (arrived at 9:38 a.m.)
Bert Boulet
Greg Gaudet
Diederick Godin (away from 10-11 a.m.)
Robert James
Warren Kmicik
Billy Lee, Vice Chair (arrived at 10:30 a.m.)
Justin Macneil (arrived at 10:55 a.m.)
Tony McWhannel (away from 10-11:38 a.m.)
Nyssa Moore
Jim Rice
Danielle Woroniuk

Safety Codes Council

Allison Karch, Kathryn Derkach

Alberta Municipal Affairs

Nick Monea, Liz Gillean

ABSA

Robin Antoniuk, Mike Prefumo, Djordje Sronic, Monica Elfstedt

REGRETS: Jacques St-Onge, Geoff Kutz, Elaine Wasylenchuk

GUESTS: Jay Dhanjal, Mayank Patel, Krzysztof Dobrzanski

OBSERVERS: Matt Yarmuch

RECORDER: Kathryn Derkach

2023 MEETINGS: January 12, March 16, May 4

1. Meeting Opening

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

1.1 Agenda Adoption

Tony McWhannel / Rob James moved that the agenda be adopted, as circulated; CARRIED

1.2 Adoption of the September 8, 2022 Minutes

Robert James / Greg Gaudet moved to adopt the minutes of the September 8, 2022 meeting, as circulated; CARRIED

2. Matters for Decision

2.1. Closed Session

Bert Boulet / Jim Rice moved to enter into closed session; CARRIED

Billy Lee / Robert James moved to exit closed session; CARRIED

2.1.1. Annual Matrix Review

Greg Gaudet / Tony McWhannel moved that the Pressure Equipment Matrix remains appropriate as is; CARRIED

2.1.2. Annual Skills Matrix Review

Billy Lee / Warren Kmicik moved that the Pressure Equipment Skills Matrix remains appropriate as is; CARRIED

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. [Bartley]

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 Item is complete and will be removed from item list.

2.	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 March 16, 2023 meeting.
3.	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.

4. Matters for Discussion

4.1. Hydrogen Presentation

Representatives from Gas Liquids Engineering attended to present about hydrogen. Highlights from the presentation included:

- An overview of what hydrogen is and the different ‘colours’ of hydrogen.
- High level information about replacing natural gas with hydrogen.
- Hydrogen storage options, including tanks and underground salt caverns.
- Permeability and leakage from potential storage options and in pipes.
- Mechanical compression and the types of compressors available.
- Mechanisms of hydrogen embrittlement.
- Material selections and designs of piping.
- Various initiatives in Alberta involving hydrogen.

The following was discussed:

- ASME B31.12 is not adopted in Alberta—hydrogen piping projects must use ASME B31.3 for design requirements.
- A revision to CSA Z662 is expected in 2023 to address hydrogen.
- Nitrous oxides emissions would likely be a significant issue if hydrogen is used as a fuel for large engines and turbines.
- Most hydrogen projects use a blend of hydrogen and another fuel gas in an effort to reduce the CO2 emissions. There are difficulties transporting pure hydrogen, and most equipment can only handle up to 20% hydrogen at this time. After the 20% mark, modifications will need to be made to equipment.
- There is no limit in Canada on the percentage in blends; in the UK, it’s a 20-30% maximum blend.

4.2. Review of AB-513 and AB-526

ABSA provided two documents in the member portal: AB-513 Pressure Equipment Repair and Alteration Requirements, and AB-526 In-Service Pressure Equipment Inspector Certification Requirements. ABSA is requesting input from the sub-council and other industry groups on

these documents prior to March 31, 2023. Once feedback is received, ABSA will undertake a comprehensive review.

Each working group is asked to review and provide comments back to Council staff by February 28, 2023 so the feedback documents can be validated at the March PESC meeting. [All]

4.3. Feedback request on Regulatory Information for Power Engineers Seminar and other opportunities

ABSA is reaching out to industry for feedback on the needs of Power Engineers and how they can best be supported. There are currently eight seminars that have been developed by ABSA based on industry input. ABSA would like to gain further feedback on their training program in general: for example, are there any gaps in training, is the format (in-person vs online) effective, does the existing material work well, are new topics needed, etc.

The following was discussed:

- A mentorship program that would endorse certain types of engineers might help bridge some gaps within industry.
- There is great value in having the Power Engineers seminar and allowing ABSA to go to various organizations to speak about issues.
- Training currently targets responsibilities verses competencies.
- LinkedIn Learning is a great tool.
- The chair of the Power Engineers working group will follow up with Monica Elfstedt and Mike Prefumo with an invitation to the next Power Engineers working group meeting.

[McWhannel]

4.4. Working Group Reports

4.4.1. Power Engineers

The working group will begin a review of the Power Engineers Regulation. The group was reminded that the review should begin with a thorough identification of the issues being encountered by industry and users of the regulation. This should include information such as impacts on labour, costs, etc. After issues are identified and thoroughly explained, this information would be shared with Municipal Affairs and next steps towards identifying possible solutions could be considered.

4.4.1.1. Update on timeline after graduation to challenge exam

The timeline for students after they complete their coursework to be able to challenge the exam was further discussed at the working group. It was felt that this issue was best dealt with at the college level.

4.4.2. Pressure Welders

A written report was included in the portal and the following was discussed:

- The group requests a status update on their feedback, requested by Municipal Affairs, about the Pressure Welders Regulation and proposals originally submitted by AWOC.
- Information was received from Municipal Affairs and Advanced Education on the understanding of regulation requirements and the eligibility of red seal trades, including the line between the different jurisdictions.

- There was discussion around the AB500 documents that consolidated welding related to requirements and the line between Municipal Affairs and ABSA.
- AWOOC has brought up the discussion regarding the use of C Pressure Tickets for apprentices in shops for field work. This topic is ongoing at the working group.

4.4.3. PESR Codes & Standards

No update.

4.4.3.1. Update on plan to review ASME B31.12 and B31.3

The working group chair does not see any challenges with reviewing ASME B31.12 within the next six months.

It was noted that the 2023 ASME Boilers and Pressure Vessels code is expected to be published in July 2023, with Z662 being published in June 2023. Both codes will need to be reviewed following publication.

The working group chair will follow up with Jarred Henkelman at Dow and Jay Dhanjal at Gas Liquids Engineering about joining the working group for this review. [Gaudet]

4.4.4. PESR In-Service Equipment

No update.

Diederick Godin will reach out to the working group chair to set up next meeting. [Godin]

4.4.5. CSA N285.0

A written report was included in the portal and the following was discussed:

- Work continues on better understanding the gap between N285 and ASME Section III.
- ABSA has provided documents that are helping the working group gain a better understanding.
- The working group is looking to have a recommendation ready for the June PESC meeting.

4.4.6. Working Group Functioning and Guidelines

The sub-council was reminded of the working group guidelines that can be found on the member portal and the following was discussed:

- Through a governance review, it was discovered that working groups across the Council were functioning in different ways, with some having significant responsibilities and varying levels of oversight from their parent sub-council.
- It was noted that an identified issue with standing working groups is overloading one group with many tasks, making it harder for the working group chair to manage.
- The intent of the working groups are to do the work of the sub-council and bring their findings back to the sub-council for any subsequent action or recommendation.

- Members were reminded that the PESC should be aware how the working groups are spending their time and work should be delegated by the sub-council to the working groups.
- Recommendations can only be made by the sub-council, not from a working group directly to another organization.
- Members were reminded to review the working group procedures and to use the templates for reporting.
- Reports should be submitted to Council staff for inclusion with the agenda package.

4.5. AMA Report

The Technical Advisor reported:

- Advanced Education and AIT are working with Municipal Affairs to clarify regulatory overlaps that currently exist.
- With the extended transition period between Technical Advisors, review of the Pressure Welders Regulation revisions had been delayed however are now being looked at.
- Updates regarding unfired boilers
- The Technical Advisor will engage with the working group to review B31.12.
- Compliance monitoring is completed and being reviewed by Municipal Affairs before being submitted to ABSA.

4.6. ABSA/Administrator Report

A written report was saved in the portal and the Administrator reported:

- Summary of Unsafe condition, accident and fire reports
 - Seven conditions, accident and fire reports were entered since the last update (2022-09-08). No injuries have been reported in this period.
 - Brief descriptions are available [here](#).
- Information Bulletins
 - IB22-019: [Code Requirements for Propane Fuel Tanks](#)
 - IB22-018: [Allowance for and Report of Local Thin Areas \(LTA's\) in Cylindrical Pressure Vessel Shells and in Spherical Segments](#)
 - IB22-017: [ASME Code Requirements Regarding the Use of SI Units in Pressure Equipment Design Registration and Shop Construction](#)
 - IB22-016: [Requirements for Thermal Liquid Heating Systems](#)
 - IB22-015: [Integrity Management Systems for Mechanical Refrigeration Systems Containing Ammonia](#)
 - IB22-014: [Quality Management Systems for Pressure Piping Construction](#)
 - IB22-13: [Quality Management Systems for Integrity Assessment Organizations](#)
- 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
 - The next ASME Boiler Code Week is scheduled to be held in person in Pittsburgh from November 6th to 11th, 2022.
 - This will be the last opportunity for changes for the next code cycle.
 - CSA B51

- The CSA B51 Technical Committee (TC) meeting was held in person in Winnipeg on September 21, 2022.
 - Several proposals are currently on the ballot or re-ballot.
 - The next edition of CSA B51 is scheduled for first quarter of 2024.
 - CSA B52
 - The CSA B52 Technical Committee (TC) meeting was held in person in Winnipeg on September 22, 2022.
 - Several proposals are currently on the ballot.
 - 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.

4.7. Council Updates

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

- The letter to the Assistant Deputy Minister indicating PESC's support of administrative amendments to the Pressure Equipment Safety Regulation was sent and a copy is posted in the member portal.
- Members were reminded of the recent update to the Council's communications policy which now is applicable to members.
- 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
 - Contact gerry.letendre@safetycodes.ab.ca to register.
- The Council will be holding a holiday open house in December for members and other stakeholders; email invitations will be sent.
- The Council has updated its cyber security policy which also applies to members. Please be sure to review and reach out if you have any questions.

5. Meeting Finalization

5.1. Round Table

- David Miller received the Dr. Sauer award at the Member Appreciation event.
- The Petroleum Industry representative reported that the apprenticeship board audits continue to be an issue. Municipal Affairs will reach out to the Petroleum Industry representative and AIT to discuss further.

5.2. Next Meeting

The next meeting was reconfirmed for January 12, 2023, via videoconference at 9:00 a.m.

5.3. Meeting Adjournment

Nate Bartley / Danielle Woroniuk moved to adjourn the meeting; CARRIED

The meeting was adjourned at 2:08 p.m.

– NEW ACTION ITEMS –

2.1.2. Annual Skills Matrix Review

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. [Bartley]

4.2. Review of AB-513 and AB-526

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4.3. Feedback request on Regulatory Information for Power Engineers Seminar and other opportunities

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4.4.3.1. Update on plan to review ASME B31.12 and B31.3

The working group chair will follow up with Jarred Henkelman at Dow and Jay Dhanjal at Gas Liquids Engineering about joining the working group for this review. [Gaudet]

4.4.4. PESR In-Service Equipment

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– MOTIONS –

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5.3. Meeting Adjournment

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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, Diederick Godin, Greg Gaudet External: Louis Shoukas, Randy Gleave, Lee Lama ABSA support: Mike Prefumo, Robin Antoniuk AMA support: Nick Monea