



Safety Codes Council

MINUTES OF THE FIRST PRESSURE EQUIPMENT SUB-COUNCIL MEETING OF 2022

DATE: January 6, 2022

TIME: 9:03 a.m. to 12:11 p.m.

LOCATION: videoconference

PRESENT: *Sub-Council Members*
Henry Hau, Chair
Nate Bartley
Greg Gaudet
Warren Kmicik
Diederick Godin
Geoff Kutz
Billy Lee, Vice Chair
Tony McWhannel
David Miller, Vice Chair
Nyssa Moore
Jacques St-Onge
Jim Rice
Danielle Woroniuk

Safety Codes Council
Allison Karch, Kathryn Derkach

Alberta Municipal Affairs
Jon Elliott, Sidney Manning

ABSA
Mike Poehlmann, Robin Antoniuk, Djordje Srnica

REGRETS: Bert Boulet, Robert James

GUESTS: Justin MacNiel

RECORDER: Kathryn Derkach

2022 MEETINGS: March 17, May 5, September 8, November 3

1. Meeting Opening

The Chair called the meeting to order at 9:03 a.m. A round table introduction was held and a safety moment was provided.

1.1 Agenda Adoption

Nyssa Moore/David Miller moved that the agenda be adopted, as circulated; CARRIED

1.2 Adoption of the November 4, 2021 Minutes

Tony McWhannel/Geoff Kutz moved to adopt the minutes of the November 4, 2021 meeting, as circulated; CARRIED

2. Matters for Decision

None identified

3. Review Matters Arising/Action List

	Item	Action	Date Initiated	Responsible	Status/Update
1.	PESC Strategic Planning Session	Members are asked to review the Safety Codes Council strategic plan and consider how the sub-council can be strategically aligned with this document. Members are also asked to reach out to their nominating organizations and working group members for input.	Nov 4/21	All Members	The strategic planning will take place at the May 5 meeting, tentatively scheduled for in person. The session will focus on issues the sub-council should focus on and direction the industry is going.

4. Matters for Discussion

4.1. Review of AB-515, AB-518, and AB-523

The Pressure Equipment Administrator explained the scheduled review of various AB500 documents. The review is on a five year cycle to ensure documents do not become outdated. Documents are reviewed regardless of whether there are any changes. ABSA is requesting feedback I by March 31.

Working groups will meet to review and compile their feedback prior to the next PESC meeting. To ensure ABSA's deadline is met, working group chairs are asked to send any feedback to Allison for further discussion at the March 17th PESC meeting. [All]

4.2. Working Group Reports

4.2.1. Power Engineers

The following was reported:

- Long term recommendations around ammonia refrigeration has been set aside to focus on other priorities.
- Discussion continues on the application of the Power Engineers Regulation for supervision of different types of equipment that fall under the definition of boiler. A 3 column document was shared on screen to give background on the issue and discussion. The working group is looking to develop advice about how to apply the rules for mandatory supervision by power engineers to equipment such as unfired steam generators in a process plant.

4.2.2. Pressure Welders

Nothing to report.

4.2.3. PESR Codes & Standards

Nothing to report.

4.2.4. PESR In-Service Equipment

Nothing to report.

4.3. AMA Report

It was reported that the recruitment and hiring process for a Technical Advisor in the pressure equipment discipline is still underway.

4.4. ABSA/Administrator Report

The Administrator reported:

- Summary of Unsafe condition, accident and fire reports
 - Five unsafe conditions, accident and fire reports were entered since the last update. No injuries were report
 - Brief descriptions are available <https://www.absa.ca/unsafe-condition-accident-fire-reporting/summary-of-unsafe-condition-accident-fire-reports/>
- Information Bulletins

IB21-019	Overpressure Protection Requirements (AB-525)
IB21-018	Registration of Pressure Equipment Alteration Design Based on Fitness for Service Assessment (AB-535)
IB21-017	Quality Management Systems for Pressure Relief Devices (AB-524)
IB21-016(VA21-008)	Variance to provide options for addressing Building Operator A, Building Operator B and Fireman's Certificates of Competency after they have expired
IB21-015	Electronic Log Book Power Engineers Regulation
IB21-014	Power Engineer Certification Candidates with Qualifying Experience from Outside of Alberta
IB21-013	Owner's Designation of Chief Power Engineer for Rotational Duty Assignments
IB21-012	Requirements for Thermal Liquid Heating Systems (AB-537)
IB21-011	Integrity Management Systems for Mechanical Refrigeration Systems Containing Ammonia (AB-538)

IB21-010-R1	Pressure Piping Alternative Test Methods (AB-519)
IB21-009	Risk-Based Inspection Requirements for Owner-User Pressure Equipment Integrity Management Systems (AB-505)

- New or Revised AB-500 Documents

		Edition	Revision	Published
AB-525	Overpressure Protection Requirements for Pressure Vessels and Pressure Piping	2	0	2021-12-13
AB-535	Alteration Design Registration Based on FFS	2	2	2021-12-01
AB-524	Pressure Relief Devices Requirements	7	0	2021-11-29
AB-511	The Impact Testing Enigma	3	0	2021-11-09
AB-505	Risk-Based Inspection Requirements for Pressure Equipment	3	0	2021-10-29
AB-519	Pressure Piping Alternative Test Methods Procedure Requirements	2	3	2021-10-29
AB-537	Thermal Liquid Heating System (TLHS) Requirements	1	1	2021-10-29
AB-538	IMS FOR AMMONIA REFRIGERATION PLANTS	1	1	2021-10-29

- Codes and Standards

- ASME

- The ASME Boiler Code Week meetings were held virtually from October 31st to November 4th, 2021. Highlights of the November meetings are as follows:

- Technical Oversight Management Committee (TOMC)

- It was reported that all ASME Boiler Code Meetings will be held virtually in February, August, and November, except the May meeting will be held in-person. ASME is still evaluating whether they will return to in person meetings or utilize a hybrid approach for future meetings.

- ASME's Technical Oversight Management Committee and the ASME Section VIII Standards Committee are working on permanent requirements for the remote inspection of boilers and pressure vessels during construction.

- Boiler and Pressure Vessel (BPV) Section II

- It was reported that ASME is preparing a 100+ pages long errata for the 2021 edition of Section II, Part D (e.g. corrections to allowable stresses, corrections of data in many tables, introduction of materials, and return of omitted material lines).

- Boiler and Pressure Vessel (BPV) Section VIII

- In lieu of the original plan to publish a white paper, ASME will publish an article in the National Board Bulletin regarding the requirements for a Certifying Engineer in the ASME Section VIII, Division 1 Pressure Vessel Code. With

the introduction of Certifying Engineer requirements in the new Appendix 47 (2021 Edition), this article should provide guidance and commentary to all users to better understand the new requirements in Appendix 47.

- The ASME BPV VIII Standards Committee started the work on restructuring and complete rewrite of Section VIII, Division 1 with the intention to publish it in 2025. During the month of November, ASME conducted a survey about the Section VIII reshape seeking broad input from all users of the code book.
- ASME is developing rules for the design and construction of fired heater treater vessels, which are commonly used in Alberta.
- The Task Group on Scope was re-established in a different format to address the concerns raised by the refrigeration industry. During the public review process, the refrigeration industry requested that ASME not remove a number of the existing scope limitations from BPVC VIII, Division 1. A number of Air-Conditioning, Heating & Refrigeration Institute (AHRI) members, along with several BPV VIII Standards Committee members, will have two special meetings in December and January to review the concerns and provide a report to the BPV VIII Standards Committee in February 2022.
- CSA B51
 - The CSA B51 Technical Committee (TC) met virtually on November 24th, 2021. Highlights include:
 - The B51 Technical Sub Committee (TSC) on Modernization reported that the six Task Groups are progressing well with their scope of work. In order to handle this large project efficiently, the TSC decided to split this project in eleven smaller items (requests for code changes) that will be processed and balloted individually. It was reported that several items will be ready for initial ballots in December of 2021.
 - The TSC on Pressure Vessels is currently working on seven requests for code changes (e.g. revision of the rules for anhydrous ammonia pressure vessels, introduction of an Annex that will provide requirements for pneumatic tests). It is expected that several items will be balloted in the first quarter of 2022.
- CSA B52
 - The next CSA B52 Technical Committee (TC) meeting will be held virtually in the first quarter of 2022.
- CSA Z662
 - The CSA Z662 Technical Committee (TC) meeting was held virtually on Nov. 16, 17, 18th and 30th, 2021. This was the last meeting before the draft of the new (2023) edition was sent for the public review and final vote. Highlights include:
 - Over 20 requests for interpretation were reviewed in the meeting.

- 80 new requests for code changes were reviewed in the meeting. Majority of them were approved and will be added in the final draft of the 2023 Edition.
- The future development of the standard will include pipeline requirements for:
 - Transporting Hydrogen
 - Capturing CO2
- Task Group on Hydrogen was formed with the assignment to propose the rules for pipelines transporting hydrogen. TG will define the project timelines and deliverables. TG will discuss if the 2025 edition of CSA Z662 is realistic to include the requirements for pipelines transporting hydrogen.
- CSA Z662 Technical Committee adopted an Amendment to the terms of reference. In the future, CSA Z662 standard will include CO2 in the scope.
 - The draft of the Z662 new edition is posted on the CSA public review site at <https://publicreview.csa.ca/Home/Details/4450> for a consultation period ending on March 5, 2022. CSA encourage people to share this link with those who would be interested in reviewing the new edition and providing comments.
- ABSA is looking to create a global pressure equipment forum to investigate alternative approaches to what is established by ASME codes and develop answers to questions about importing and exporting equipment to other jurisdictions such as Europe. This work is just beginning, with an initial meeting planned for January 25. Any members interested in participating are asked to contact Djordje Srnica.
- The increased use of hydrogen as a fuel was mentioned. It was noted that this use will continue to increase, for both hydrogen blends and 100% hydrogen, and corresponding standards are being developed. This conversation will continue to escalate and members were asked to keep this in mind.

4.5. Council Updates

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

- The Council office is anticipated to reopen on February 15th at the earliest—subject to change.
 - Staff may continue to work from home.
- The Council is looking for members' input on what safety system data would be beneficial to collect and analyze.
 - Please feel free to provide your thoughts by email to allison.karch@safetycodes.ab.ca
 - This may be added as a discussion item for a future agenda.
- Council Member Training—spring 2022 dates
 - New Member Orientation: April 28, 9:00 a.m. – 12:30 p.m.
 - Effective Meetings Workshop: February 16 and 17, 8:30 a.m. – 12:30 p.m. (must attend both days)
 - Appeals Training: March 8 and 9, 8:30 a.m. – 12:30 p.m. (must attend both days)
 - Contact gerry.letendre@safetycodes.ab.ca to register.

- These will be offered in the fall as well.

4.6. Gas STANDATA Revisions

The Gas Administrator explained that the following joint STANDATA between the Pressure Equipment and Gas disciplines are intended for industry utilizing gas as a fuel and generally they aim to bring clarity to the distinction between the two disciplines. The Administrator is asking for feedback on each of the STANDATA prior to the February 3 Gas Sub-Council meeting so he can bring that feedback forward.

4.6.1. 20-GCB-08 (Rev2) Liquefied Petroleum Gas Storage Vessel Installations

The following was discussed:

- This STANDATA referenced a 2015 document in error and has been updated.
- Wording around pressure equipment has not changed.
- It was questioned if ABSA could suggest language to introduce more clarity regarding vessel size and industrial partners.

4.6.2. 20-GCB-10 (Rev3) Fuel Gas Pressure Piping in Plants

The following was discussed:

- This STANDATA has been around for a decade, but it was revised and issued in February 2021 without vetting through the Pressure Equipment Sub-Council.
- This document was created to help clarify the overlap between the disciplines and allow for flexibility to move the demarcation point to manage the risk.

4.6.3. 20-GCB-11 (Rev2) Propane Storage Tanks Designed for 200 PSIG

The following was discussed:

- It was noted that the vessels subject to this STANDATA were designed and built to the ASME code that was in effect over 70 years ago and it's unclear how many of these vessels are still operating.
- It was suggested that this STANDATA may no longer be needed, however, the Administrator is looking for further input before making any changes.

5. Meeting Finalization

5.1. Round Table

- The Pressure Equipment Administrator noted that, as part of their strategic planning activities, the sub-council may want to consider broader acceptance of codes other than ASME in order facilitate international trade agreements while maintaining pressure equipment safety.
- David Miller was thanked for his contributions to the sub-council.

5.2. Next Meeting

The next meeting was reconfirmed for March 17, 2021 at virtually at 9:00 a.m.

5.3. Meeting Adjournment

David Miller/Billy Lee moved to adjourn; CARRIED

The meeting was adjourned at 12:11 p.m.

– NEW ACTION ITEMS –

4.1. Review of AB-515, AB-518, and AB-523

Working groups will meet to review and compile their feedback prior to the next PESC meeting. To ensure ABSA’s deadline is met, working group chairs are asked to send any feedback to Allison for further discussion at the March 17th PESC meeting. [All]

– MOTIONS –

1.1 Agenda Adoption

Nyssa Moore/David Miller moved that the agenda be adopted, as circulated; CARRIED

1.2 Adoption of the November 4, 2021 Minutes

Tony McWhannel/Geoff Kutz moved to adopt the minutes of the November 4, 2021 meeting, as circulated; CARRIED

5.3. Meeting Adjournment

David Miller/Billy Lee moved to adjourn; CARRIED

– WORKING GROUP MEMBER LISTS –

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 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