

MINUTES OF THE FOURTH PRESSURE EQUIPMENT SUB-COUNCIL MEETING OF 2019

DATE: September 5, 2019

TIME: 9:00 a.m. to 11:58 a.m.

LOCATION: Safety Codes Council Office, Edmonton

PRESENT: Henry Hau, Chair

Nate Bartley Greg Gaudet

Dr. Magdi Ghobrial

Geoff Kutz

Tony McWhannel David Miller, Vice Chair

Nyssa Moore Jacques St-Onge John Wolff

Danielle Woroniuk

ABSA

Robin Antoniuk, Djordje Srnic, John Siggers

Alberta Municipal Affairs

Allan Hantelmann, Bohdan Yard

Safety Codes Council

Allison Karch, Kathryn Derkach

REGRETS: Robert James, Marvin Kossowan, Billy Lee, Vice Chair, Todd Loran, Mike Clancy,

Mike Poehlmann (ABSA)

GUESTS: Matt Yarmuch, Rick Walmsley

RECORDER: Sandi Orr

2019 MEETINGS: October 24 – Special, December 12

1. Meeting Opening

The Chair called the meeting to order at 9:00 a.m. A round table introduction and a safety moment were held.

1.1. Agenda Adoption

ABSA's Summary of Proposed Code Changes was added to the agenda under an existing agenda item.

Greg Gaudet / Jacques St-Onge moved that the agenda be adopted, as amended; CARRIED

1.2. Adoption of Minutes

The minutes were reviewed and the following corrections were made:

- 2.3 April 1, 2021 was corrected to read April 1, 2020
- 4.1.2. 4-column document was corrected to read 3-column document

John Wolff / David Miller moved to adopt the minutes of May 2, 2019, as corrected; CARRIED

2. Matters for Decision

There were no matters for decision identified.

3. Review Matters Arising/Action List

	Item	Action	Date Initiated	Responsible	Status/Update
1.	Low Carbon Steel	Continue to monitor the low-carbon steel project. UPDATE: Cautionary note published by CSA B51, rule changes have been proposed, ABSA continues to monitor.	Feb 1/18 3.	Srnic	This item was closed and any future updates will be brought forward as a new item
2.	Power Engineer Certification Differences across Provinces	It was suggested that a presentation regarding certification differences be provided at a future meeting and that consideration be given for a letter supporting AMA's position. A presentation will be provided by the Department of Labour on trade issues at a future meeting.	Jan 10/19 3.3.	Hantelmann	Presentation tentatively scheduled for October meeting
3.	Refrigeration Systems Concerns	Provide feedback from other sub- councils about short term recommendations moved by PESC at their March 2019 meeting.	Mar 14/19 2.3.	Council Administration	Feedback summary completed, Item 4.2 on agenda, this item will be removed from the action item

	Continue working on long term	Mar	Power	In progress
	recommendations.	14/19	Engineers WG	
		2.3.		

- 4. Matters for Discussion
- 4.1. Interpretation of Reduced Supervision Requirements in accordance with Power Engineers Regulation review the document and provide comments to the Administrator/ABSA

A draft Information Bulletin clarifying Certification Requirements for Providing Reduced Supervision in accordance with the Power Engineers Regulation (AR85/2003) was included in the portal.

The final version of the Interpretation, published on August 30, 2019, was circulated as information.

4.2. Ammonia Refrigeration System Concerns - review the feedback from other sub-councils

A summary of feedback from the Gas, Plumbing, Electrical, Building and Fire sub-councils was included in the portal and reviewed. No significant concerns were raised. It was questioned regarding CSA B52 jurisdiction to enforce maintenance and this has been left with the multiple discipline working group of AMA, Health and OHS. There was no update available from that working group.

David Miller / Tony McWhannel moved that the Pressure Equipment Sub-Council accept the Power Engineers Working Group proposal that the following short-term recommendations be recommended to the Pressure Equipment Administrator:

- For owners of ammonia refrigeration plants > 10kW, who have an ABSA approved integrity program for the operation of pressure equipment, these refrigeration systems need to fall under this program to ensure both adequate operation and maintenance of these systems is performed.
- 2. For owners who do not have an ABSA approved integrity program for the operation of pressure equipment then AB-615 should become mandatory and not a guideline. AB-615 is a simple but effective document that outlines the basic requirements of operating a mechanical refrigeration system containing ammonia. One addition to AB-615 that is recommended is that any time the refrigerant is found in the brine or when the refrigerant equipment fails and releases the refrigerant to the atmosphere this must then be reported to an ABSA SCO and a monitoring and repair plan must be put into place immediately. For the short term this would not mandate any specific certification or supervision requirements for the operation of these facilities and it is something that all owners could implement in a short time period with minimal impact to their operations.

And to recommend the following AB-615 revisions to the Administrator for consideration:

5 i) Perform pressure equipment integrity inspection at a minimum every 5 years

7 d) Report any leak in the pressure equipment, including evidence of ammonia in the brine, to an ABSA SCO;

It was questioned about how to proceed with the recommendation of making AB-615 mandatory. A discussion was held regarding authority and it was reported that it is believed that the Pressure Equipment Administrator has the authority to enforce the requirements listed in AB-615. It was reported that over 200 facilities are registered and categorized by kW. Although certification of operators is not mandatory, the training is being made available.

David Miller / Tony McWhannel moved to table the motion until clarification is provided regarding authority; CARRIED

Clarification is requested regarding authority relative to making the AB-615 mandatory.

[Poehlmann]

The working group's recommendation will be brought to the multi-discipline working group. [Hantelmann]

This item will be included on the next PESC agenda.

[Council Administration]

4.3. Proposed Pressure Welder Regulation Changes

An update was provided of the working group meetings held over the summer. The proposed changes continue to be reviewed by the working group. The recommendations from AWOC on proposed changes to the Pressure Welder Regulation were included in the portal. It was noted that AMA and ABSA representatives are working closely with the working group.

Guests removed themselves from the meeting and an in camera discussion was held regarding the proposed structure of the Pressure Welder Regulation. Further discussion was deferred to the next meeting.

4.4. Working Group Reports

4.4.1. Power Engineers

It was reported that two working group meetings were held since the last meeting. Work continues on reviewing the regulation to potentially propose changes. It is believed that 3 or 4 more working group meetings will be needed before recommendations are brought forward to the sub-council.

4.4.2. Pressure Welders

An overview was provided from 3 meetings held since the last sub-council meeting. There was nothing further to bring forward that wasn't already discussed under Agenda Item 4.3. Once work is completed, recommendations will be brought forward from the working group.

It was requested that ASME Section IX of ABSA's Summary of Proposed Code Changes be reviewed by the Pressure Welders Working Group. [Lee]

4.4.3. PESR Codes & Standards

Clarification was provided regarding ASME requirements vs. jurisdictional requirements. ABSA has created a Summary of Proposed Code Changes and this will be provided to the Working Group for review.

[Srnic]

The summary document will be reviewed by the Working Group with a recommendation to be brought forward at the October 2019 meeting. [Gaudet]

4.4.4. PESR In-Service Equipment

It was reported that there were no working group meetings held over the summer. It was reported that AB-535 was reviewed based on proposed changes brought forward from IPEIA.

4.5. AMA Report

The sub-council's recommendations regarding Thermal Liquid Heating Systems are now moving forward in the legislative process and have been well received by the Minister.

With the big initiative to reduce red tape, sub-councils are being asked to bring forward potential areas for discussion as soon as possible in order to open dialogue of potential recommendations.

An overview was provided on Power Engineer requirements in other provinces and the work done to review the French translation for Power Engineer requirements. The gap analysis was provided back to Quebec. A presentation will be provided at the October meeting. Quebec is asking for a French version of the examination and the Federal government has agreed that funding should be provided for this. It was requested that the gap analysis be provided to the sub-council in advance of the October meeting. [Hantelmann]

VAR-GAS-03-19—Engineer Authentication at Oil and Gas Production Facilities Variance was included in the portal as information. AMA provided background regarding the new Variance, which is now published on the AMA website.

4.6. ABSA/Administrator Report

The following report was provided on behalf of the Administrator:

Summary of Unsafe condition, accident and fire reports

A total of 41 unsafe condition, accident and fire reports were received since the last update. Brief descriptions are available https://www.absa.ca/unsafe-condition-accident-fire-reports/

Five people were injured in two separate incidents. There was a high potential for injury in two involving sandblast vessels.

Date				Loss of
Reported	Injuries	Fatalities	Description	Containment
2019-07-24	4	0	During a planned outage, workers were removing the blind flange on a waste heat boiler when they were sprayed with hot boiler feedwater.	Yes
2019-07-02	1	0	An operator was sprayed in the face with process fluid after turning a valve that was under pressure.	No
2019-06-10 0 manway cover to fail, launching it throu		A sandblast tank overpressured causing the manway cover to fail, launching it through a building roof. Upon investigation the safety relief valve was found to be wired shut.	Yes	
2019-06-04 0 0 sandb		0	An employee failed to completely depressurize a sandblast tank before attempting to open the lid. The lid swung open, denting the vessel.	No

Information Bulletins issued since May 2nd

Interpretation	2019-08-30	IB19-009	Certification Requirements for Providing Reduced Supervision	PER
Interpretation	2019-07-31 IB19-008 Re		Requirements for Pneumatic Test Procedures	PESR
Interpretation	pretation 2019-07-12 IB19-007		Pressure Equipment Repair and Alteration Requirements	PESR
Interpretation	2019-07-02	IB19-006	Historical Boilers Requirements	PESR
Interpretation	2019-07-02	IB19-005	Interpretation - Requirements for EPEs	PESR
Information 2019-07		IB19-004	Industry Report Proposing Continued Use of Affected Grade 91 Equipment	PESR
Interpretation 2019-07-02 IB19-003 G		IB19-003	Requirements for the Integrity Management of Grade 91 Steel Used Above Currently- Permitted Allowable Stresses	PESR
Interpretation	2019-07-02 IB19-002 Pressure Piping Alternative Test Methods		PESR	

AB-500 documents issued since May 2nd

AB-507	GUIDELINES FOR THE INSPECTION OF INSTALLED FIRED HEATERS	Edition 0, Revision 3 – Issued 2019-07- 11	Now a "dormant" document
AB-513	Pressure Equipment Repair and Alteration Requirements	Edition 3, Revision 3 - Issued 2019-07- 12	Section 1 – Referred users of Grade 91 to AB-536. Section 2 – Added definition of creep-strength-enhanced materials. Section 3 – Added reference to AB-536. Section 3 – Moved reference to AB-535. Section 5 – Editorial for clarification.
AB-519	Pressure Piping Alternative Test Methods Procedure Requirements	Edition 2, Revision 0 Issued 2019-07-02	Reposted for an editorial change to correct the Issued/Revision Date – no changes to technical information
AB-521	Requirements for Engineered Pressure Enclosures	Edition 2, Revision 0 - Issued 2019-07- 02	Added Flowchart & Annex A. Content & editorial updates throughout. ANNEX A: Quality Plan Requirements for an Alberta Owner-User RRIMR Procedure Submission
AB-522	Standard Pneumatic Test Procedure Requirements for Piping Systems	Edition 2, Revision 2 - Issued 2019-07- 31	Updated definitions, and several revisions in the text.
AB-532	Design Registration Requirements for Application-Specific Pneumatic Test Procedures	Edition 1, Revision 1 - Issued 2019-07- 31	Updated definitions, and several revisions in the text.
AB-527	Inspector Competence Management System Guidelines for In-Service Pressure Equipment Integrity Assessment Programs	Edition 2, Revision 0 - Issued 2019-07- 15	New Edition – full revision
AB-534	Harmonized Requirements for Historical Boilers	Edition 1, Revision 2 Issued 2019-07-02	Updated NBIC 2015 to 2017 Minor Updates throughout Manitoba Section rewritten
AB-536	Requirements for the Integrity Management of Grade 91 Steel Used Above Currently-Permitted Allowable Stresses	Edition 1, Revision 0 - Issued 2019-07- 02	New

Association of Chief Inspectors

ACI members met in Vancouver August 19 and 20. Highlights include:

- Unanimous support for the design submission and registration web portal developed by ABSA's IT to support the CRN harmonization project
- ACI finalized a new constitution www.acilive.ca
- Atlantic and Territorial Welder Mobility
 - A voluntary online registry has been developed to allow the portability of welder tests in the participating jurisdictions. Participating welders and employers pay a fee to store and retrieve web-accessible date that provides evidence of a welding tests conducted by a regulatory authority inspector. When the welder applies for a license to weld in a different jurisdiction, the receiving regulatory authority can verify the test was administered by a regulatory authority inspector and issue a license without further testing. The system can also be used to maintain a continuity log for welders that work among several employers.
- The members unanimously supported the secure web portal has been developed by the CRN Harmonization project team led by ABSA, TSASK, TSSA and RBQ with the IT support provided by ABSA's in-house IT department. The portal provides a single submission platform for managing electronic design submissions. Functionality of the web portal includes submissions by the applicant, real-time sharing of the submission and review comments among all participating regulatory authorities, status updates, single point communication with the submitter, invoicing, and archiving of the completed submission. The portal is technology neutral and relies on current web coding protocols.
- The SOPEEC report included:
 - Commitment to provide French translation for power engineer exam questions to support harmonization and implementation of CFTA labour mobility for power engineers
 - NPSAC has received sufficient jurisdictional support to proceed with the development of a new national standard for plant rating and power engineer staffing, ABSA is reviewing how this might affect plant ratings in Alberta

CSA B52

- TC meeting in Vancouver August 22nd. Highlights include:
 - Presentation by TSBC on ammonia incident in Langley BC
 - https://www.technicalsafetybc.ca/alerts/ruptured-refrigeration-evaporatorreleases-ammonia-resulting-extensive-area-evacuation
 - "The isolation of liquid ammonia caused an overpressure condition to rapidly develop, rupturing the evaporator at a location of high stress and a manufacturing defect."

CSA B51

- TC meeting in Vancouver August 22nd. Highlights include:
 - New TSC formed Modernization of B51
 - Djordje Srnic named chair
 - Three main areas

- Reorganization and reformatting
- Addition of Conformity Assessment requirements
- New informative annex scope (e.g. inclusions and exemptions)
- Resolved a request for interpretation regarding one type of clamped connection that is not prohibited by new clause 8.7
 - ABSA staff are developing a second request for interpretation
- Former PESC Chair Izak Roux is the new chair of B51

ASME

- 2019 Edition scheduled was published in July 2019
- A report was provided from the ASME Boiler and Pressure Vessel Code Committee Activities from their meeting in Minneapolis in August 2019 and will be included in the portal [Council Administration]
 - Task Group on Risk-based Design and Inspection provided a progress report
 - o Updates regarding Section I, VIII, XIII and ASME B31.3

4.7. Council Updates

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

- The Council is offering Member training:
 - o New Member Orientation September 24
 - Effective Meetings Workshop November 12
 - Appeals Training November 13
 - o To sign up, please email Gerry.Letendre@safetycodes.ab.ca
- All Members are required to complete online FOIP training by December 31, 2019 –
 please let Council Administration know if you did not receive the email with the link to
 the training
- Continuing work on the governance review, including proposed changes to streamline working group formation and process
- Terms of Reference for each sub-council are being developed for review.
- Working group chairs will now be asked to provide a short written report in advance of each sub-council meeting, a template was shown on screen of a report format
- A 'subcouncils@safetycodes.ab.ca' email has been created for all meeting invites—please continue to use direct emails for inquiries
- A member survey was sent to all sub-council members, please make sure to fill it out and give your honest feedback
- A quarterly report of all sub-councils' key activities has been created and will be distributed to the Board and sub-councils at the end of each quarter; the second quarter report was included in the portal as information.

5. Meeting Finalization

5.1. Round Table

It was brought up that not all sub-council members have access to the codes and standards. Upon specific request members, the Council will look into the costs of providing required codes and standards to members if they do not already have access through their employment.

5.2. Next Meeting

The next meeting was reconfirmed as a special meeting on October 24, 2019 and the next regular sub-council meeting was reconfirmed for December 12, 2019.

5.3. Meeting Adjournment

John Wolff / Greg Gaudet moved that the meeting be adjourned; CARRIED

The meeting was adjourned at 11:58 a.m.

--- NEW ACTION ITEMS ---

4.2. Ammonia Refrigeration System Concerns - review the feedback from other sub-councils

Clarification is requested regarding authority relative to making the AB-615 mandatory.

[Poehlmann]

The working group's recommendation will be brought to the multi-discipline working group. [Hantelmann]

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4.5. AMA Report

It was requested that the gap analysis be provided to the sub-council in advance of the October meeting.

[Hantelmann]

--- MOTIONS ---

1.1. Agenda Adoption

Greg Gaudet / Jacques St-Onge moved that the agenda be adopted, as amended; CARRIED

1.2. Adoption of Minutes

John Wolff / David Miller moved to adopt the minutes of May 2, 2019, as corrected; CARRIED

4.2. Ammonia Refrigeration System Concerns - review the feedback from other sub-councils

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And to recommend the following AB-615 revisions to the Administrator for consideration:

- 5 i) Perform pressure equipment integrity inspection at a minimum every 5 years
- 7 d) Report any leak in the pressure equipment, including evidence of ammonia in the brine, to an ABSA SCO; TABLED

David Miller / Tony McWhannel to table the motion until clarification is provided regarding authority; CARRIED

5.3. Meeting Adjournment

John Wolff / Greg Gaudet moved that the meeting be adjourned; CARRIED

WORKING GROUP MEMBERS

WORKING GROUP	WORKING GROUP MEMBERS (Chair)
Power Engineers	David Miller
	Mike Clancy, Henry Hau, Todd Loran, Tony McWhannel, John Wolff, Danielle
	Woroniuk
	Industry Representative: Mike Lyne (Suncor)
	Support: Mike Poehlmann, Tom Lemming, John Siggers, Allan Hantelmann
Pressure Welders	Billy Lee
	Marvin Kossowan, Geoff Kutz, Nyssa Moore, Jacques St-Onge, (formerly Izak
	Roux and Ward Wagner)
	Industry Representation: Matt Yarmuch, AWOC
	Support: Jason Reinhart, Robin Antoniuk, Allan Hantelmann
PESR Codes and Standards, Greg Gaudet	
Design Registration and	Magdi Ghobrial, Marvin Kossowan, Billy Lee, Tony McWhannel, David Miller,
Shop Inspections	(formerly Izak Roux)
	Industry Representatives: Eric Madsen, Shell Canada; Jim B. Seale, Seale
	Engineering; Neil McKay, Cesco; Shawn Morrison, M5 Engineering; Simon Yuen,
	Suncor Energy; Trevor Seipp, Becht Engineering; and Kelly Bell, Cenovus Energy
	Support: Mike Poehlmann, Djordje Srnic.
PESR In-Service Inspections,	Geoff Kutz
Repairs & Alterations, and	Greg Gaudet, Henry Hau, Todd Loran, Nyssa Moore, Jacques St-Onge, John Wolff,
PEIM Program	(formerly Grant Peuramaki)
	Support: Robin Antoniuk, Allan Hantelmann