



**MINUTES OF THE
SECOND PRESSURE EQUIPMENT SUB-COUNCIL MEETING OF 2018,
WITH SPECIAL MEETING #1**

DATE: March 29, 2018

TIME: 9:00 a.m. to 3:10 p.m.

LOCATION: Radisson Hotel, Edmonton

PRESENT: **Sub-Council Members**
Izak Roux, Chair
Henry Hau
Gregory Gaudet
Marvin Kossowan
Geoff Kutz, Vice Chair
Billy Lee
Todd Loran
Tony McWhannel
Nyssa Moore
Grant Peuramaki
Jacques St-Onge
Ward Wagner
John Wolff

Alberta Boilers Safety Association (ABSA)
Mike Poehlmann, Administrator, Djordje Srnica, Robin Antoniuk, Jason Reinhart,
Graham Wilson

Alberta Municipal Affairs
Allan Hantelmann, Bohdan Yard,

Safety Codes Council
Allison Karch, Gerry Baron, Susan Rossmann

Guests
Tom McCaffery and Kate Reynolds from Alberta Economic Development and
Trade; Jim Wiess, Jon Elliott

REGRETS: Mike Clancy, Dr. Magdi Ghobrial, David Miller, Vice Chair

RECORDER: Sandi Orr

2018 MEETINGS: May 3, Jun 21, Sep 6, Oct 25, Dec 6

1. Meeting Opening

The Chair called the meeting to order at 9:00 a.m. and a round table introduction was held. An overview was provided of today's agenda.

1.1. Agenda Adoption

John Wolff / Henry Hau moved that the agenda be adopted as circulated, with a flexible order of business to allow for presentations; CARRIED

1.2. Adoption of February 1, 2018

John Wolff / Jacques St. Onge moved to adopt the minutes of February 1, 2018 as circulated; CARRIED

2. Matters for Decision

2.1. Appointments

2.1.1. Re-nomination of Dr. Magdi Ghobrial for a term ending January 31, 2021

The letter of re-nomination was included in the portal and reviewed.

Henry Hau / Ward Wagner moved to recommend to the Board the reappointment of Dr. Magdi Ghobrial to the Pressure Equipment Sub-Council, representing the Professional Engineers industry segment for a term until January 31, 2021, effective immediately; CARRIED

2.1.2 Re-nomination of Marvin Kossowan for a term ending January 31, 2021

The letter of re-nomination was included in the portal and reviewed.

Todd Loran / John Wolff moved to recommend to the Board the reappointment of Marvin Kossowan to the Pressure Equipment Sub-Council, representing the Pressure Vessel Manufacturing industry segment for a term until January 31, 2021, effective immediately; CARRIED

3. Review Matters Arising/Action List

Date	Action	Responsible	Status/Update
Nov 24, 2016	Further discussion about ASME task group looking at allocating risk during the design stage	Roux	In progress
June 22, 2017	Draft document on Accident Reporting to be forwarded to the Integrity In-Service Inspection Group for further feedback	Kutz / Antoniuk/ Loran / Wolff	Published, remove from action list
Sept 7, 2017	Take information about continuing education for Power Engineers to the Alberta Institute of Power Engineers for further discussion.	Hau	Nothing to update

Sept 7, 2017	Both PESR working groups to begin discussions re. The implications of the proposed change for lowering allowable stress values for Gr. 91 materials to identify concerns and recommendations to address the concerns.	Wolff / Ghobrial	In progress
Feb 1, 2018	It was requested that two members from the Design Working Group be added to the In-Service Task Group.	Ghobrial	Chair will follow up
Oct 12, 2017	Determine Status of Thermal Liquid Heating Systems in Pressure Equipment Exemption Order	Hantelmann, Yard	In progress
Feb 1, 2018	Continue to monitor low-carbon steel project.	Srnic	In progress
Feb 1, 2018	It was requested that an overview of policy that will be taken into consideration when reviewing the Pressure Equipment Exemption Order be provided to the sub-council at the next meeting.	Robertson	Provided under AMA report
Feb 1, 2018	It was suggested that a new planning session be considered as well as a review of the Terms of Reference for all Working Groups. The Chair will discuss this with the Vice Chairs and will work with the Council to determine how this could be organized.	Roux / Miller / Kutz / Council Administration	Not started yet

4. Matters for Discussion

4.1. Alberta Industrial Manufacturing - Presentation

Tom McCaffery, Alberta Economic Development and Trade, was welcomed to the meeting. A presentation was provided on screen regarding Competitiveness and the Efficiency of Regulations. Highlights of the presentation included the following:

- An overview was provided of the activities provided by the department and its objectives
- Strong regulation is important to Alberta to ensure competitiveness
- An overview was provided of the current state of industrial manufacturing in Alberta
- From 2016 to 2017, jobs have increased by 2%, sales have increased by 34% and exports have increased by 30%
- Emphasis was placed on the importance of agile regulatory systems
- Eliminating taxes and de-regulation does little to improve competitiveness
- AWOC Aggregate Quality and Competitiveness Survey showed that:
 - 74% of deficiencies are from not meeting ASME Code; 26% are related to not meeting Alberta Regulation
 - 65% of “first-time” submitters had deficiencies; dropped to 45% with experience
- Examples were provided of some of the innovative initiatives being worked on

The floor was opened for questions and clarification was provided regarding what ABSA’s role is regarding deficiencies. Concern was expressed regarding the increased cost of electricity in Alberta and how that impacts the manufacturing industry. The industry is inundated with the importing of large pieces of equipment from off-shore and this is likely contributing to the high percentage of deficiencies. It was questioned whether some incentives could mandate Alberta manufactures? Examples were provided regarding some recent initiatives that used Alberta

manufacturers that could have occurred because of an increase of marketing the benefits but not through a mandated requirement. Alberta submissions have a greater success rate in their initial submissions, but it is challenging to determine what that means in economic advantages. It would be helpful to understand what the current regulations mean from an economic standpoint. It was suggested that regulation is not a factor but rather the infrastructure, cost of living, labour standards and equipment integrity that increase the cost of Alberta manufactured products. Government policies make it challenging for manufacturers to be competitive. It's hard to be competitive when Alberta manufacturers must play by different rules. It was reminded that the sub-council is focussed on ensuring minimum safety standards, particularly when equipment is being purchased by those that are don't know those requirements.

4.2. Governance Review

The Manager of Stakeholder Relations provided a high-level overview of all the work that has been done on the governance review, starting with the Board.

Briefing notes were included in the portal and the Council Policy Framework (Draft Mar 13, 2018) was circulated. An overview was provided of the existing bylaws and a series of questions were asked to gather input.

A round table discussion was held, and input was provided on a variety of areas including:

- What the TCC and the Sub-Council's roles should be
- How code adoption should flow
- How often the TCC should meet
- TCC membership
- How the Council should address Energy Codes

Members are encouraged to take Appeals Training.

An overview was provided on how the Letter Ballot process is being revised to provide more background information and the opportunity for discussion prior to voting.

An overview was provided of the following Next Steps:

- This same presentation will be provided to gain input from each sub-council
- A summary report will be provided on what was heard from the Technical Coordinating Committee as well as all sub-councils
- A draft Terms of Reference will be developed for the TCC and each of the sub-councils for review at a future meeting
- Changes will be anticipated to the bylaws
- Survey in the fall to gather feedback

4.3. A Guide to the Policy Process

Two process flow chart documents were included in the portal and explained in detail. The floor was opened for questions and clarification was asked about where in the process is for the sub-council to finalize their recommendation to recommend to the Minister, through the Board. It

was noted that it would be in the final “thoroughly reviewed” box before heading to get a briefing developed. It was suggested this be updated for better clarity. The Chair emphasized that it is critical that the sub-council needs to know specifically where they fit.

Bohdan Yard will bring forward the sub-council’s feedback. [Yard]

It was questioned when an issue is deemed small or big. The more data available to identify an issue that is significant, the better it is to be determined a higher priority.

4.4. AMA Report

It was reported that work continues on the Pressure Welders Regulation and the Power Engineers parking lot issues. Briefing notes regarding TLHS are being drafted, with ABSA’s help, to provide to the Minister.

The Exemption Order expires in 2019. It was questioned regarding timelines and clarified that this is a Ministerial decision but if there are any burning issues these should be brought forward for the Minister’s consideration. The only change being considered at this point is TLHS exemptions when considered low risk.

The Pressure Equipment Regulation was presented to Cabinet and passed.

It was questioned regarding AWOC recommendations and confirmed that any recommendations will be brought to the Working Group.

4.5. ABSA/Administrator Report

Accidents, Fires and Unsafe Conditions

Date Reported	Injuries	Fatalities	Description	Loss of Containment
2018-02-12	0	0	During operation of a fired treater the firetube gasket failed, releasing process fluid. The fluid ignited causing a fire.	Yes
2018-02-08	0	0	During operation of a fired treater the firetube failed (through-wall crack), releasing process fluid. The fluid ignited causing a fire.	Yes
2018-02-02	0	0	The contents in a closed pressure vessel froze resulting in failure of the pressure vessel shell.	Yes

Information Bulletins Issued / Revised

Interpretation	2018-03-26	IB18-006	Design Registration of Components used in Mechanical Refrigeration Systems PER
Interpretation	2018-02-28	IB18-005	<u>In-Service Pressure Equipment Inspector Certificate of Competency</u>

Interpretation	2018-02-23	IB18-004	<u>PESR Section 35, Reporting Unsafe Conditions, Accidents and Fires</u>
Interpretation	2018-02-23	IB18-003	<u>Requirements for Engineered Pressure Enclosures</u>
Interpretation	2018-02-23	IB18-002	<u>ASME Code Case 2891 for Division 2 Class 1 Pressure Vessels</u>

AB-500 Documents Issued / Revised

- AB-526 “In-Service Pressure Equipment Inspector Certification Requirements” Edition 2, Revision 0
- AB-521, Requirements for Engineered Pressure Enclosures, Edition 1, Revision 2

CSA Code Activities

B52

- Ballot 4015 to add A2L and B2L to Figure 5
- Ballot 4151 to revise Tables 1 and 2 - additional refrigerants
- Ballot 4239 Revisions to Table 4 Minimum Design Pressures

B51

- Ballot 4259, Proposed New Clause 7.1.5 to B51, Boilers & Pressure Vessels – Div 2 design by analysis cannot be used to override design by rule
- Ballot 4257, Proposed Revisions to Annex C CSA B51, Boilers & Pressure Vessel – revisions to informative annex C prv repair organization qc guidelines
- Ballot 4256, Proposed Revisions to Clause 11.2 CSA B51, Boilers & Pressure Vessels – simplify wording – repairs to category G fittings (prds) to be in accordance with clause 12.7.3
- Ballot 4255, Proposed Revisions to Clauses 12.1 and 12.7.3 CSA B51, Boilers & Pressure Vessels – editorial clarifications – name the standards.
- Ballot 4254, Proposed Revisions to Clauses 2 and 8.1 CSA B51, Boilers & Pressure Vessels – Editorial RM IP-2 The Hose Handbook is now ARPM IP-2.
- Ballot 4277 Add note to clause 7.1.1 regarding low toughness
- ~16 ballots regarding data reports

Z662 – Public review of 2019 draft edition closed. 492 comments received.

ASME Code Committee Activities

ASME Boiler Code week was held in Las Vegas, Nevada, February 4th to 9th, 2018. Notable topics included:

The joint Section I and Section II Task Group members reviewed properties of several creep enhanced ferritic steels. The Task Group approved reduction of allowable stress values for Grade 92, Grade 911, Grade 122, and VM12-SHC materials. The proposal includes revision of material properties in Code Cases 2179, 2180, 2327, and 2781.

Section VIII revised UG-84 and added requirements for qualifying a welding procedure specification (WPS) when base metals have different impact testing requirements and acceptance criteria. The addition is scheduled to be published in the 2019 edition.

The Subgroup on Toughness is working with the API FFS-1 committee on the proposal to revise UG-20(f). These two committees discussed new construction and what to do with existing vessels. For the time being, ASME will focus on new construction only. The goal is to eliminate the possibility that a Section VIII-1 vessel built using UG-20(f) rules would not pass a Brittle Fracture Assessment at -20°F, as current language in UG-20(f) does not provide the end user the assurance that a UG-20(f) compliant vessel can reliably operate at -20°F, even though it can be stamped with a minimum design metal temperature (MDMT) of -20°F.

ASME is in the process of approving a revision to all three Divisions of Section VIII stating that only U. S. Customary or SI units for material properties and allowable stress published in the U.S. Customary or SI versions of Section II, Part D may be used in code calculations.

Section VIII is in the process of approving a revision to non-destructive examination (NDE) personnel qualification requirements that will permit Section VIII to formally adopt performance-based qualification programs, in accordance with ASME ANDE-1-2015, ASME Nondestructive Examination and Quality Control Central Qualification and Certification Program. The revision will keep the current rules and introduce the ANDE-1 qualification program as an alternative approach.

Section VIII approved a code case to permit mechanical etching to the external surface of a vessel or vessel part as an alternative to the requirements of UG-118, including the ASME Certification Mark. Clarification was provided that this could take some time before being available.

The first draft of proposed Section XIII Overpressure Protection has been circulated for review and comment to all committees.

4.6. Technical Coordinating Committee Report

The Chair reported the following:

- Governance review
- Policy framework – Operational polices were included for information
- Energy codes path forward input
- Updated business plan will be presented at conference
- Information about the new office, moving near the end of April, meetings won't move until the September meetings
- Building, Fire, Elevators and Energy code regulations changing, which will make all codes under automatic adoption
- Continuing education

- Cannabis regulation
- Window guards
- London fire report made available
- Council Connect

4.7. Council Updates

The following report was provided:

- Gerry Baron is the new liaison
- Conference invitations have been sent out
- If contact information changes, please advise the Council as well as included home contact
- The move is on track for the week of April 16 to 20, 2018. The office will be closed from the afternoon of Friday, April 20 until Tuesday, April 24, 2018
- June meeting may be downtown but further information will be provided

4.8. Working Group Reports

4.8.1. Pressure Welder Working Group

The Pressure Welder Working Group met from 10:00 a.m. to 11:00 a.m. as part of the special meeting. The following was reported:

- Welders Examiners
- Tack Welders
- AWOC feedback will be added to the portal [Council Administration]
- Looking at Pressure Welders Regulation, reminded that the regulation only addresses pressure welding, not whether it's new or a repair, in a shop or in the field
- UG84

4.8.2. Power Engineers Working Group

The Power Engineers Working Group met from 10:00 a.m. to 11:00 a.m. as part of the special meeting. It was reported that work continues on the supervision requirements.

4.8.3. PESR Codes and Standard, Design Survey/Registration and New Inspection Working Group

The PESR Codes and Standard Working Group met from 11:00 a.m. to 12:00 p.m. as part of the special meeting. The following was reported:

- Meeting in April/May relative to impacts for automatic code adoption to determine if the current IB document needs to be revised
- Monitoring issues concerning Grade 91 material and SA-105

4.8.4. PESR In-Service Inspections Working Group

The PESR In-Service Inspections Working Group met from 11:00 a.m. to 12:00 p.m. as part of the special meeting. The following was reported:

- Required evaluations to be put in guidance document for Grade 91 material
- Fit for Service guidance document continues to be reviewed
- Accident Reporting guidance document has been published on the ABSA website

5. Meeting Finalization

5.1. Meeting and Agenda Feedback

An overview of new action items was provided.

Background was provided from the two new members that joined the sub-council.

5.2. Next Meeting

The next meeting was reconfirmed for Thursday, May 3, 2018 at 9:00 a.m. in Edmonton.

5.2.1. 2018 AGM

The 2018 AGM and conference will be held from May 30 – June 1 at the Rimrock Hotel in Banff.

5.3. Meeting Adjournment

Todd Loran / Henry Hau moved that the meeting be adjourned; CARRIED

The meeting was adjourned at 3:10 p.m.

--- NEW ACTION ITEMS ---

4.3. A Guide to the Policy Process

Bohdan Yard will bring forward the sub-council's feedback. [Yard]

4.8.1. Pressure Welder Working Group

AWOC feedback will be added to the portal [Council Administration]

--- MOTIONS ---

1.1. Agenda Adoption

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Todd Loran / John Wolff moved to recommend to the Board the reappointment of Marvin Kossowan to the Pressure Equipment Sub-Council, representing the Pressure Vessel Manufacturing industry segment for a term until January 31, 2021, effective immediately; CARRIED

5.3. Meeting Adjournment

Todd Loran / Henry Hau moved that the meeting be adjourned; CARRIED