

**MINUTES OF THE  
SECOND BOILERS & PRESSURE VESSELS  
SUB-COUNCIL MEETING OF 2015**

**DATE:** April 2, 2015  
**TIME:** 9:00 a.m. to 3:15 p.m.  
**LOCATION:** Radisson Edmonton South, Edmonton

**PRESENT:** **Sub-Council Members**

Izak Roux, Chair

Mike Clancy (arrived at 10:30 a.m.)

Zeljko Gnjatic

Brian Grantham

Marvin Kossowan

Brian Lade, Vice Chair

Todd Loran

David Miller

Grant Peuramaki

John Valens

Jim Weiss, Vice Chair

John Wolff

**Alberta Boilers Safety Association**

Mike Poehlmann, Administrator & Chief Inspector

**Guests**

Graham Wilson, Bob Roseberg, Djorjde Srnic

**Alberta Municipal Affairs**

Karen Pottruff, Harry Li

**Safety Codes Council**

Erin Stroud, Manager, Stakeholder Relations

**REGRETS:** Dr. Magdi Ghobrial  
Ward Wagner  
Terry Wiseman

Allan Hantelmann, Alberta Municipal Affairs

**RECORDER:** Sandi Orr

**2015 MEETINGS:** Edmonton:  
Thursday, June 11 – Regular meeting  
Thursday, August 27 – Regular meeting

Thursday, October 1 – Special meeting  
Thursday, December 3 – Regular meeting

## **A. Call to Order**

The Chair called the meeting to order at 9:00 a.m.

## **B. Introductions**

A round table introduction was held and opportunity was provided to allow members to share learnings on safety. After the lunch break, Todd Loran shared a video narrated by an employee and his wife on a severe pressure equipment incident.

## **C. Adoption of the Agenda**

The following items were added to the agenda:

- F.4.02.15 – Bylaw Changes
- F.5.02.15 – Upcoming Appeals Training

**Brian Lade / John Wolff moved to adopt the agenda, as amended, with a flexible order of business; CARRIED**

## **D. Adoption of the Minutes**

A matrix of regulations was circulated with the agenda and minutes package for information to be considered by the Working Groups.

The last paragraph under F.4.03.11 a) SCA Review – Update was corrected to read... Concern was expressed regarding in-service inspectors...

**John Wolff / John Valens moved to approve the minutes of January 23, 2015, as corrected; CARRIED**

## **E. Business Arising from the Minutes**

### **F.4.01.11 Apprenticeship and Industry Training and Pressure Welders Regulation Implementation**

This was deferred until the next meeting.

### **F.4.03.11 Municipal Affairs Legislation Process**

#### **a) SCA Review – Update**

It was reported that the Safety Codes Act Amendment has been approved by Cabinet. An overview of the changes were provided:

- Timely code adoption
- Administrative penalties which would require a Regulation to be developed containing the details
- Transferring of unaccredited municipalities from AMA to the Council (ASCA) for the construction disciplines
- Administrative revisions

From a sub-council's perspective, proposed regulations will be brought forward for feedback. A copy of Bill 21 was circulated as information (Handout #1). It was clarified that relative to the code adoption process there will be no change in the code review process by the sub-councils. As key stakeholders and industry representatives, the sub-councils will still make recommendations to the Minister for the adoption of codes with or without amendments.

It was requested that when any feedback is required from the sub-council that documentation be circulated prior to the meetings to allow time for review.

**b) Pressure Equipment Safety Regulation (AR49/2006)**

**c) In-service Inspector Definition**

A confidential draft of the Pressure Equipment Safety Regulation (AR49/2006) relative to the In-service Pressure Equipment Inspector was circulated. It was questioned whether a definition of in-service inspector was needed.

A discussion was held regarding the confidential stamp on the document and what sub-council members are able to share with their representative industry sectors, particularly when the meetings are open to the public. It was clarified that some circulated documentation has more sensitivity than others. The in-camera process was explained when guests would be in attendance and there is a need to discuss confidential issues.

**d) In-service Inspector Protection under the Act**

The concern was reiterated regarding In-service Inspectors not having liability protection under the Safety Codes Act. A comparison was made to Safety Codes Officers who do have liability protection under the Act. Prior to 2003 there had been Safety Codes Officers in the Boilers Discipline outside of ABSA employees, but none of these non-ABSA Safety Codes Officers had designated powers. It was mentioned that the powers, duties and functions of a Safety Codes Officer are distinct from the duties of an in-service pressure equipment inspector.

**F.1.05.14 Stock Equipment Owners/Inspectors**

It was reported that the article was published in the March 2015 issue of *Pressure News*. Being no further action, this item will be removed from the agenda. [Paches]

**F. New Business**

**F.1.02.15 Dr. Sauer Award - nominations**

Sub-council members were provided an overview of the Dr. Sauer Award presented to a sub-council member whose volunteerism is above and beyond. The nominees must either still be on the sub-council or those sub-council members that has just recently retired as of January 31, 2015.

Members were encouraged to submit nominations by the deadline as the selection will be done at the April 2015 Coordinating Committee meeting. The nomination form is available on the landing page on the portal.

**F.2.02.15 Matrix Review – request from APPCA for a seat on BPVTC**

It was reported that a request was received from a new organization known as the Alberta Pressure Piping Contractors Association (APPCA) for representation on the sub-council. It was suggested that a review of the matrix be conducted to ensure an effective balance of interests (e.g. manufacturers, welders, contractors, consultation, etc.) and to determine if there are any gaps or overlaps.

It was questioned whether APPCA has made a presentation to the sub-council and it was suggested that a review be held first regarding the balance before inviting them to present.

**Grant Peuramaki / Brian Lade moved that the Vice Chair, Jim Weiss, be tasked with conducting a review of the balance of the matrix and report back to the sub-council at the next meeting; CARRIED** [Weiss]

It was questioned regarding the process to change the matrix and clarified that any recommendations for change are presented to the Coordinating Committee for consideration.

#### **F.3.02.15 Reappointment of Magdi Ghobrial to January 31, 2018**

**Brian Lade / Jim Weiss moved to recommend to the Coordinating Committee the reappointment of Magdi Ghobrial to the Boilers and Pressure Vessels Technical Council for a term until January 31, 2018, effective immediately; CARRIED**

#### **F.4.02.15 Bylaw Changes**

Sub-council members were reminded of the Council Conference being held in Banff from June 3 to 5, 2015. Conference registration and travel expenses are covered by the Council for all sub-council members and everyone was encouraged to participate.

It was noted that with the amendments to the Safety Codes Act and the removal of the requirement for the Minister to approve Council Bylaw changes, the request made at the last meeting to change the BPVTC's name to Pressure Equipment Technical Sub-Council will be presented to the membership at the AGM. This proposed change to the Bylaws will be sent out to all members this week.

#### **F.5.02.15 Upcoming Appeals Training**

An overview was provided of the Council training available to all sub-council members:

- May 11, 2015 in Edmonton – New Member Orientation
- May 12, 2015 in Edmonton – Appeals Training
- May 12, 2015 in Edmonton – Chair Training

Sessions may be held in the fall in Calgary if needed.

### **G. Standing Agenda Items**

Working group breakout discussions were held and a summary was presented.

#### **(a) Pressure Welders Working Group**

Participants: Izak Roux, WG Chair  
Zeljko Gnjatic  
Marvin Kossowan

Brian Lade  
John Valens  
Bob Roseberg, ABSA  
Djordje Srnic, ABSA  
Harry Li, AMA

An overview was provided of the topics under discussion:

- Tack welders
- AWOC's request for considering expanding eligibility for tack welding – this was debated and still being worked on
- The Technical Advisor is creating a matrix of education and training of the different trades
- Welding Examiners and Welding Examiners In-training – the working group is looking forward in a few years as to whether there might be a need for different levels. This is still under review and no decision is needed at this time
- Wire Operators Certification – being reviewed and no decision is needed at this time
- Apprenticeship applying for C Tickets – being reviewed and no decision is needed at this time

(b) Power Engineers Working Group

Participants: David Miller, WG Chair  
Mike Clancy  
Brian Grantham  
Todd Loran  
Grant Peuramaki  
Jim Weiss  
John Wolff  
Graham Wilson, ABSA  
Mike Poehlmann, ABSA  
Karen Pottruff, AMA

- Notes from last meeting are included in the Working Group folder on the portal
- Background was provided on the reason revisions are needed to the Power Engineers Certificates. During the meeting in February, prototypes of the certificates were reviewed and sample #3 was agreed on.

**David Miller / Brian Lade moved that the new Power Engineer's Certificate of Competency be revised based on prototype #3, as recommended by the Power Engineers Working Group; CARRIED**

**David Miller / Jim Weiss moved to recommend to the Minister of Municipal Affairs through the Coordinating Committee to amend the Power Engineers Regulation to increase the maximum capacity of Heritage Boilers from 250kW to 500kW, as recommended by Power Engineers Working Group; CARRIED**

Other items still under discussion include:

- Definition of boiler – still some discussion and the working group expects to be able to report back prior to the June meeting. Background was provided on the reason why this is being discussed and it is uncertain if there is need for change.
- Power Engineer Certification rules have been reviewed relative to the 7 year rule for certificates and the three strike rule. The working group believes that the system isn't really broken, the time appears reasonable and there is validity to the rules. When

there are issues with an individual, ABSA works with that individual to attempt resolution. It was recognized that this falls under the scope of the Administrator and the working group does not recommend any changes.

(c) PESR – Codes & Standards, Design Survey/Registration and New Equipment Inspection Working Group

Participants: Brian Lade, WG Chair and Recorder  
Izak Roux  
Marvin Kossowan  
Bob Roseberg, ABSA  
Djordje Srnic, ABSA

The Working Group Chair reported that he is struggling to find time to put the necessary effort into this and will be working on getting someone else to step up as Chair.

Issues currently needed discussion include:

- The review of upcoming codes needing adoption, including CSA Z662, 2015 ASME code that will be published in July and finding a way to become more proactive relative to the upcoming 2017 proposed changes
- The working group needs more industry representation
- ABSA is doing industry consultation to produce an AB-500 document relative to substantive control on installation of pressure enclosures (leak boxes)

(d) PESR – In-Service Inspections, Repairs & Alterations and PEIM Working Group

Participants: John Wolff, Chair  
Mike Clancy  
John Valens  
Zeljko Gnjatic  
Brian Grantham  
Harry Li, AMA  
Todd Loran  
David Miller  
Grant Peuramaki  
Jim Weiss  
Karen Pottruff, AMA  
John Siggers, ABSA  
Mike Poehlmann, ABSA

The Working Group Chair reported that the majority of the working group has been spending time on the Power Engineers and no meeting was held between this meeting and the last sub-council meeting. It was recognized that the sub-council's working group needs to keep informed on discussions of the ABSA working group

## H. Correspondence

There was no other correspondent to report.

## I. ABSA/Administrator Report

The Administrator/Chief Inspector provided the following report:

- 8 incident notifications in January (4), February (0) and March (4).

- No injuries were reported.
- Portable firetube boiler furnace explosion. Freezing of process piping resulted in vessel overpressure, not loss of containment. Gasket failure in heat exchanger, gas release, small fire. Gas leak in process piping (reported because it was by chance there was no fire). Boiler feed water piping damaged by the collapse of air duct in a power plant. Hose fitting broke in air service, hose whipped, grazed the face of a worker. Several superheater tubes ruptured during start-up of a power boiler. Overpressure of vessel by water pump pressure.

#### Information Bulletins issued since last meeting

- Information Bulletin No. IB15-003 March 20, 2015 Quality Management Systems for Pressure Relief Devices

#### Design Review Process

- Continuing to apply streamlined process
- Developed and distributing an information brochure (Brochure circulated – Design Survey and CRNs - Handout #2)
- Workload has been reduced from approximately 2,200 in September to 1,349 as of 2015-04-01
- Rate of submissions still fairly high - total is around 850 per month
- In February and March 1,698 received and logged in, 2,015 registered

#### AB-500 Documents

- Developing a plan to continually review these
- AB-512 - revised version is being circulated internally
- AB-505 - is being worked on by a working group

#### Code Committee Activities

- Z662 finished the 2015 edition balloting in February
- Addressed over 300 comments including some negative votes
- Significant for our discipline - Clause 14 steam and now high temperature pipelines

ASME's Openness principle is still unresolved. The latest round of the discussion is questioning the legitimacy of this concept forming part of a technical (administrative) standard. Alberta's position is that ASME is not in a position to establish program policy for Alberta.

### **ASME Boilers & Pressure Vessel Code Proposals**

Djordje Sronic provided the following report:

#### Openness Principle

- Item passed with two negatives on the QAI Standards Committee
- It will be further discussed on Committee above the QAI

#### Section VIII Div. 2 Common Rules

- Code Committees are working on around 120 items to incorporate all changes for class 1 vessels
- Class 1 vessels to have design factor 3.5 on tensile strength
- Class 2 vessels to have design factor 2.4 on tensile strength

- Class 1 vessels will be very similar to current Section VIII Div. 1 vessels but different NDE requirements For example:
  - Div. 1 vessels - spot RT.
  - Div. 2 Class 1 vessels – 2 % RT was proposed, and
  - Div. 2 Class 2 vessels – 10% RT
- No certification requirements for a Class 1 vessel UDS or MDR, except if a Part 5 FEA analysis is required (used) then certification by P. Eng. of the Part 5 analysis would be required
- For a Class 1 vessels when design rules are not provided for a vessel or vessel part in Part 4, Code will allow the use of Part 5 or a recognized and generally acceptable design-by-rule method.

Section VIII Div. 1 Task Group on U-2(g)

- Current work includes defining requirements for:
- Material physical properties when they are not specified in Section II - Part D
- Minimum designer competence levels, qualification levels and certification requirements for personnel for U-2(g) work.

Section VIII Div. 2 requirements were compared to European requirements - presentation

- Review of Table 7.2 of ASME Section VIII-2 in line with Table 6-6.2.1 of EN13445-5
- A presentation was made in BPV VIII meeting comparing NDE requirements of EN13445-5 with those in ASME Section VIII Division 2.
- In the presentation, it was stated that in some areas, ASME Section VIII Division 2 could be more conservative when compared to the European standard. Some changes were made in the EN13445 over the years; specifically in 2013 with reduction of level NDE was made on “non-governing” full penetration welds and for specific material groups.

During discussion, it was pointed out that construction standard, while important, is only part of pressure equipment safety. Legislation; enforcement; workforce education and training; company operation process, procedure and pressure equipment integrity management program; cultural and ethnic backgrounds; etc., must all be part of the pressure equipment safety consideration. Thus, it may not be possible to simply review the provisions in ASME Section VIII Division 2 for parallel reduction in the level of NDE in line with EN13445 without considering the other factors.

Section VIII Div. 1

- Add definition of “static head” to Appendix 3 of ASME Section VIII Division 1 and revise Form U-DR-1 of Appendix KK accordingly
- It was found that frequently, static head was mistaken as for just the liquid content within a pressure vessel. This shows that either there is a lack of understanding of basic principle of pressure equipment design by some, or unfortunately, purposely misapplication of the Code provisions to reduce the required design margin for cost saving purposes. The proposed added definition for 'static head' is “the hydrostatic pressure caused by the contents such as liquids, fluidized solids, and bulk solids”. There is an error in Form U-DR-1 and revision to this form now matches instructions in Table KK-1 and the usage in Form U-DR-2.

## J. Technical Coordinating Committee Update

The Chair provided an overview from last the Technical Coordinating Committee meeting held in March 2015:

- Adoption of the Alberta Fire and Building Codes, including the new 6 storey combustible construction
- Research support
- SCA changes
- SCO professional development update provided
- Non-waterborne toilets
- Temporary Heat Education Program:  
(<https://sccuat-web.sharepoint.com/Public/Pages/Safe-Temporary-Propane-Heat-Campaign.aspx>)
- LNG facilities

Further discussion was held regarding the LNG facilities and it was explained that this is managed under complex projects through AMA. Brian Lade explained the reason for originally bringing this up at the TCC as it is believed more work needs to be done regarding risk management relative to site locations. Consideration should be given for using the NFPA 59A: Standard for the Production, Storage, and Handling of Liquefied Natural Gas (LNG) <http://www.nfpa.org/codes-and-standards/document-information-pages?mode=code&code=59A>

## K. Next Meeting

The following meeting schedule was reconfirmed, in Edmonton, commencing at 9:00 a.m. on:

- Thursday, June 11 – Regular meeting
- Thursday, August 27 – Regular meeting
- Thursday, October 1 – Special meeting
- Thursday, December 3 – Regular meeting

Prior to the close of the meeting, an update was requested regarding agenda item F.6.01.14 Gas Safety STANDATA Revision – G-03-11. It was reported that feedback has been given from the sub-councils and the Administrators (Boilers and Gas) continue to work on this.

**Mike Clancy / Marvin Kossowan moved that the meeting be adjourned; CARRIED**

The meeting was adjourned at 3:15 p.m.

**--- ACTION ITEMS ---**

**F.1.05.14 Stock Equipment Owners/Inspectors**

It was reported that the article was published in the March 2015 issue of *Pressure News*. Being no further action, this item will be removed from the agenda. [Paches]

**F.2.02.15 Matrix Review – request from APPCA for a seat on BPVTC**

- the Vice Chair, Jim Weiss, be tasked with conducting a review of the balance of the matrix and report back to the sub-council at the next meeting. [Weiss]

**--- MOTIONS ---**

**C. Adoption of the Agenda**

Brian Lade / John Wolff moved to adopt the agenda, as amended, with a flexible order of business; CARRIED

**D. Adoption of the Minutes**

John Wolff / John Valens moved to approve the minutes of January 23, 2015, as corrected; CARRIED

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**G. Standing Agenda Items**

(b) Power Engineers Working Group

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**K. Next Meeting**

Mike Clancy / Marvin Kossowan moved that the meeting be adjourned; CARRIED