

MINUTES OF THE SIXTH BOILERS & PRESSURE VESSELS TECHNICAL COUNCIL MEETING OF 2014

DATE: November 28, 2014

TIME: 9:00 a.m. to 1:45 p.m.

LOCATION: Holiday Inn South, Edmonton

PRESENT: Brian Lade, Chair

Mike Clancy
Zeljko Gnjatic
Brian Grantham (via Conference Call)
Marvin Kossowan
Todd Loran (via Conference Call)
David Miller (via Conference Call)
Grant Peuramaki
Izak Roux, Vice Chair (via Conference Call)
John Valens
Jim Weiss
John Wolff

Mike Poehlmann, Administrator & Chief Inspector
Djorjde Srnic, ABSA
Allan Hantelmann, Alberta Municipal Affairs
Karen Pottruff, Alberta Municipal Affairs (until 11:00 a.m.)
Harry Li, Alberta Municipal Affairs (arrived at 12:45 p.m.)
Danielle Paradis, Safety Codes Council

REGRETS: Dr. Magdi Ghobrial
Darren Leitch
Terry Wiseman

RECORDER: Sandi Orr

2015 MEETINGS: Edmonton: Friday, January 23 – Regular meeting; Thursday, April 2 – Special meeting; Thursday, June 18 – 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 9:05 a.m.

B. Introductions

The new Administrator of Certification, Danielle Paradis, was introduced and a round table introduction was held.

C. Adoption of the Agenda

The following items were added to the agenda:

- F.2.06.14 – Pressure Equipment Safety Regulation – Sections 43 and 46
- F.3.06.14 – Potential Dates for Go To Meeting Training

Mike Clancy / John Wolff moved to adopt the agenda as amended; CARRIED

D. Adoption of the Minutes

John Valens / John Wolff moved to approve the minutes of October 17, 2014, as circulated; CARRIED

E. Business Arising from the Minutes

F.4.01.11 Apprenticeship and Industry Training and B Pressure Welders

The Technical Advisor reported on the town hall meeting in October and the surveys that are being conducted amongst AWOC members. The Pressure Welders Working Group will be meeting next week and AWOC will be providing a summary of the survey results.

AWOC members are generally happy with the work AWOC has done, resulting in the changes to the Regulation. However, there is still a strong push (approximately 85%) to open up the eligibility for certification as a tack welder to other trade apprentices (boilermakers, pipefitters and structural steel workers).

The Administrator and Chief Inspector clarified that the change to the Regulation has only affected the eligibility for certification as a tack welder and that these other trade apprentices can still do tack welding provided it is removed.

Reference was made to the interpretations that are now included on the ABSA website (the new IB-14-010 on permanent tack welds and the revised IB-13-103 on temporary tack welds. It was noted that no one as of yet has applied for tack welder certification.

It was reported that one person has applied for the Welder Examiner-in-training and three certificates were issued to people that have already written paper 3.

It was also reported that B Pressure Tests upon completion of the third year has already begun and as soon as journeyman certification is verified, these journeymen will received their B Pressure Welders certificate.

F.4.03.11 Municipal Affairs Legislation Process

a) SCA Review – Update

Karen Pottruff reported that work continues on the revisions to the Safety Codes Act and the department is still pushing toward moving it forward to Cabinet in the spring of 2015.

It was reported that Statute Amendment Bill 6 has had its second reading earlier this week which includes an amendment to Section 40 of the Safety Codes Act relative to design registration. The amendment reads:

Amends RSA 2000 cS-1

3(1) The *Safety Codes Act* is amended by this section.

(2) Section 40 is amended

(a) by repealing subsection (1) and substituting the following:

Design registration

40(1) An Administrator or safety codes officer may register the design of any thing, process or activity that is required by this Act to be registered if the submitted design meets the requirements of this Act.

(b) by repealing subsection (3) and substituting the following:

(3) If an application to have a design registered is refused

- (a) by an Administrator, the Administrator shall serve the applicant with a written notice of the refusal, or
- (b) by a safety codes officer, the safety codes officer shall serve the applicant with a written notice of the refusal.

F.1.03.13 Expiry of Variance for Gas Fired Process Equipment

The Administrator and Chief Inspector met earlier this week with the Chief Gas Administrator and Technical Advisor regarding delineating jurisdiction between the gas discipline and boiler and pressure vessels discipline. It was agreed that the fuel gas piping systems is under the gas discipline up to and including the inlet of the first valve. Installation of the system itself would also be under the scope of the Gas SCO. It was questioned regarding whether this was the manual valve or a pressure regulated valve and clarified that it would be the first “manual on/off” valve.

A discussion was held regarding a whitepaper created by ARPIA regarding the confusion relative to 15 psi and it is uncertain whether this was ever addressed. It was also noted that there is confusion relative to the spreadsheet recently issued as part of the variance.

The Chief Gas Administrator will be initiating revisions to the joint STANDATA and ABSA will then provide their input. Feedback will then be sought from both sub-councils. It was questioned regarding obtaining industry stakeholder feedback at that time and clarified that it is better to gain more input in the earlier stages rather than having to revise the STANDATA after it is re-published.

F.6.02.14 Nominations / Appointment of an additional Vice Chair

It was questioned whether there was any interest in the position of a second Vice Chair and no nominations were presented.

F.1.03.14 Heritage Boilers Association of Alberta

The Power Engineers Working Group Chair reported that this is on their agenda for discussion at their January 2015 meeting.

Jim Weiss reported that he had a copy of the latest inventory list available. A copy will be placed on the portal in the BPVTC November 2014 meeting folder. [Weiss / Paches]

The Heritage Boilers Association of Alberta's general meeting was held recently and the association has grown to over 50 members and 7 organizations.

The Administrator and Chief Inspector reported on his experience at the general meeting and the different mindset. This is a hobby and these owners have a great deal of passion and a deep level of care and interest. Equipment does not only includes steam traction engines. One member is restoring a steam train, there is a replica of the African Queen and a steam cement mixer. Of the 151 pieces of equipment on the current list, any one could potentially be put back into service.

During their annual meeting a discussion was held regarding the threshold. Since there is no scientific justification, the Association's recommendation would be to use the largest piece of equipment currently available as the maximum.

Discussions are being held on whether certification from one province could be accepted in another province. After a brief discussion of the matter it was agreed that any proposal would have to come from the industry. Jim Weiss will work with the Heritage Boilers Association of Alberta to coordinate with each of the other western provinces' associations to jointly submit a proposal to each of their respective governments for recognition of both the equipment and the operator. [Weiss]

This led to a discussion regarding a similar agreement that ABSA has with Saskatchewan specifically for rig boilers. Since both have National Board Certification, SCOs are essentially deputized as inspectors for the province of Saskatchewan.

It was also reported that a proposal will be presented at IPEIA regarding interprovincial moving of pressure equipment. It was suggested that this proposal should be presented to CAPP.

F.2.04.14 Potential Amendment for Pressure Welders Regulation

It was reported that this discussion will be held during the Pressure Welders Working Group meeting next week when AWOC will provide an overview of member feedback from their survey. As Bob Roseberg is unavailable for the meeting, arrangements will be made for another ABSA representative to attend. [Poehlmann]

F.1.05.14 Stock Equipment Owners/Inspectors

Todd Loran reported that he is drafting an article for Pressure News and if not completed in time for the December 2014 issue, it will be provided to ABSA for the March 2015 issue.

F.4.05.14 Timing for Transition of Chair & Preliminary Scheduling for 2015

ABSA provided the following list of dates to avoid:

- ASME Code Week – January 25 to 31, 2015
- IPEIA – February 16 to 20, 2015
- ASME Code Week – April 26 to May 1, 2015
- ASME Code Week – August 2 to 7, 2015
- ACI/CSA B51 & B52 Meetings – August 17 to 20, 2015
- ASME Code Week – November 1 to 6, 2015

A discussion was held regarding the most suitable day of the week and consensus was reached to meet on Thursdays whenever possible. The following 2015 meeting schedule was established:

- Friday, January 23 – Regular meeting
- Thursday, April 2 – Special meeting
- Thursday, June 18 – Regular meeting
- Thursday, August 27 – Regular meeting
- Thursday, October 1 – Special meeting
- Thursday, December 3 – Regular meeting

A discussion was held regarding the transition of the Chair of the sub-council and consensus was reached that the Chair continue until the end of January, 2015. As there have been not volunteers to take on the Vice Chair position, it was noted that one option that could be considered is that Brian Lade serve as the Vice Chair while recruitment continues.

Jim Weiss / Mike Clancy moved to appoint Izak Roux as the Chair of the Boilers and Pressure Vessels Technical Council, effective February 1, 2015; CARRIED

F. New Business

F.1.06.14 Appointment of Ward Wagner to January 31, 2017

The nomination for a replacement representative from the International Brotherhood of Boilermakers Lodge 146 was included on the portal in the BPVTC November 2014 meeting folder.

John Valens / Grant Peuramaki moved to recommend to the Coordinating Committee the appointment of Ward Wagner to the Boilers and Pressure Vessels Technical Council for a term until January 31, 2017, effective immediately; CARRIED

The Council was requested to advise Ward Wagner of the 2015 meeting dates. [Paches]

F.2.06.14 Pressure Equipment Safety Regulation – Sections 43 and 46

The draft Amendment Regulation and the 3-column document was included on the portal in the BPVTC November 2014 meeting folder.

It was questioned regarding when this discussion was held as this was not included when AMA was asked for potential needs for code adoption. It was noted that this was briefly discussed at the October 17, 2014 meeting under SCA revisions and perhaps not enough discussion was held to understand the impact to this sub-council. Although the sub-council was not against the changes, it was thought this information should have been presented sooner.

It was reported that when reviewing the Administrative Agreement with ABSA, more specific details were needed relative to certification and the changes to the Act are based on current practice for in-service inspector certificates of competency. It was questioned regarding the term “certificate of competency” and although recommendations were made to change this, the legal department advised this is not possible as that is the structure within the Act.

Concern was expressed regarding the potential for this to be misinterpreted to exclude inspections by those that don't have the certificate. The Administrator and Chief Inspector clarified that this is covered by “or holds qualifications that are acceptable to the Administrator” and this wouldn't change any current practices.

It was reported that the Legal department has a different definition of the term “certify” meaning that it has been verified, tested and somewhat guaranteed. Although there is a lot of collaboration between the inspector and the engineer, the In-service Inspector could say that it is good to go, but up to the owner to give the go ahead.

It was questioned whether additional industry feedback could be sought from representative organizations. It was noted that a great deal of information is available in ABSA documents and policies and there is a need to understand the context. Although members were advised that they could seek stakeholder feedback, there is a need to ensure industry fully understands the context and that it should not be a broad consultation.

It was noted that the draft regulation has not been updated to include the instructions to the writer and that members should be referring to the 3-column document for the revisions. It was recognized that voting on these changes would not occur at this meeting. It was suggested that if members had any feedback for changes to submit them directly to Karen Pottruff (Karen.Pottruff@gov.ab.ca). [All]

F.3.06.14 Potential Dates for Go To Meeting Training

The Administrator of Certification reported that there is an opportunity for training on the Go-To Meeting software. This is being made possible due to the issues working group members had with firewalls when trying to use other meeting software. It was noted that the Go-To Meeting software is used by the Council for training and there have been no firewall issues.

It was suggested that after each of the Working Group Chairs designate a meeting date in January 2015, to coordinate this training with the Administrator of Certification (danielle.paradis@safetycodes.ab.ca). [Roux / Miller / Wolff / Lade]

A brief discussion was held regarding whether there was a need for any additional portal training. Consensus was reached that this was not necessary and members will just worked through learning the system on their own.

G. Standing Agenda Items

(a) Pressure Welders Working Group

The following working group report was provided:

- IB14-010 was reviewed and input was provided to ABSA
- A meeting is scheduled on December 2, 2014 to review the AWOC member feedback regarding tack welding
- The Pressure Tack Welder syllabus was reviewed and approved by the sub-council and published on the ABSA website, based on eligibility specified in the regulation: <http://absa.ca/Forms/AB-250%20Pressure%20Tack%20Welder%20Syllabus.pdf>

(b) Power Engineers Working Group

The following working group report was provided:

- A meeting was held in late October 2014 to discuss what's happening at SOPEEC
- The next meeting will be in early to mid-January 2015 to discuss the definition of boiler
- There is a fair bit of concern about the proposed rating system that could potential undo all of the work done in Alberta; this proposed rating system is very complicated and not oil and gas friendly

The Administrator and Chief Inspector reported that one formula for all is not practical and likely best left the province to define. Implementation would require regulation changes and this wouldn't happen quickly. It was also noted that SOPEEC is not recognized through the regulatory framework in Alberta. If not happy with the final outcome, the sub-council can make its own recommendations.

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

The following working group report was provided:

- The working group has not yet met to discuss the implementation of Section VIII, Division 2
- Past participants in the Section VIII, Division 2 are being recruited to participate in the working group

- A meeting will be scheduled in January 2015

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

The following working group report was provided:

- Working group meeting notes are contained on the portal
- Members have been reviewing the AB 500 series documents
- Topics that still need to be discussed include moving registered equipment to another site

It was suggested that feedback be sought from stakeholders on anything in the PESR that is not working. The working group Chair suggested that he did not believe that was within their scope.

The Administrator and Chief Inspector expressed his concerns with volunteer overload, especially when ABSA is going to be looking for additional help on various topics. A brief overview was provided on engineered enclosures (leak boxes) as well as processes being put in place to streamline the design registration process. The Chair noted that he received an invitation relative to the leak boxes discussions and will have a representative attend the next meeting. [Lade]

Further details were provided on a meeting held last week on the AB 500 documents and the minutes of this meeting will be provided to the Chair for circulation to the sub-council. [Srnice / Lade]

H. Correspondence

The Chair reported on receiving a copy of the Ministerial Order appointing all of the new Administrators. It was noted that this is more explicit than in the past with a series of automatic delegation if the Administrator is unavailable. Relative to this sub-council, the appointments, in hierarchy, are:

- Mike Poehlmann, Administrator
- Djordje Srnic
- Robin Antoniuk

I. ABSA/Administrator Report

Administrator's Report

Accidents – 4 accident reports were received since last meeting:

- Overheated indirect fired heater coils, burst rupture disc, no damage, instrumentation
- Boiler explosion at school – accumulation of gas in furnace of small coil tube boiler, no damage to pressure envelope, some damage to control cabinet, wiring
- Gasket leak on HE in refinery, small fire, no significant damage, no injuries or release of ammonia
- Collapsed NH₃ storage vessel 250kP - 9' x 40' horizontal

It was questioned regarding the explosion at the school and clarified that this once it was determined that it was a gas explosion in the furnace, the gas discipline took over any further investigation.

General information was provided on falsified welder PW cards. No specifics were provided as this could result in an appeal. A public news release is being issued, and both the employer and the end user of the piping system were notified.

A report was provided of the 12 year old seeking Steam Traction Engine Operator certification. The Administrator and Chief Inspector witnessed the practical test and interviewed both the operator and his parents. Two restrictions were issued; must have adult supervision and if driven on the highway, he must be in compliance with the Highway Traffic Act. As this is a 2-person operation, one running the engine and one driving it, this doesn't present any issues.

A brief discussion was held regarding the need for recertification as this was not seen as an effective use of ABSA inspector time. It was noted this was a recommendation from industry.

A report was provided on the Canadian Propane Association submission – compliance to B51 – 14 (and soon to be published AB-506) respecting service intervals on PRV's in commercial propane service under B149.2:

1. 10 years for >2500 US gallons
2. 25 years for =<2500 US gallons
3. 7 years compliance plan

ABSA will be working with industry to determine a reasonable timeframe for compliance.

A picture was shown of a methanol sphere and confusion regarding whether it is clear that these would be exempt under the Oil and Gas Conservation Act. It is the opinion of the Administrator and Chief Inspector that, no different from the exemption under the Pipeline Act, these too should be exempt. It was questioned whether this should be included as part of the exemption. The Technical Adviser suggested that consultation should be held with the Legal department and this will be pursued further. [Poehlmann / Hantelmann]

The Administrator and Chief Inspector provided an overview of his participation at the ASME Code Week.

ABSA Report

An update was provided on the activity level in terms of a 6 year trends:

- PE Exams – 175%
- Weld Exams – 112%
- Audits – 100%
- Design Registrations – 119%
- Fabrication Inspections – 101%
- In-service Inspections – 90%

A brief update was also provided on:

- Staff recruitment currently underway
- Streamlining the design registration processes with consistently more than 1,000 designs submitted per month
- API Inspector Certification Committee meeting

- Statistics on Total Active Licenses by Canadian Province and US States

It was questioned regarding the API pass/fail rates on exams and a brief explanation was provided on the complex process used to review, revise and validate exam questions. It was also questioned regarding why In-service Inspectors are not required to maintain API certification and noted that this was a conscious decision made several years ago due to the fact that Alberta does not have any direct control over the certification process.

CSA Committee Report

It was reported that a sub-group meeting will be held next week to address comments on the letter ballot for CSA Z662-15. The standard is expected to be published sometime in 2015 and will include significant changes.

Both CSA B52-14 and CSA B51-14 standards have already been published and the committees are beginning on the next code cycle.

ASME Boilers & Pressure Vessel Code Proposals

Djordje Srnic provided the following overview of discussions held regarding the recent ASME Code Week held in Orlando from November 17 to 21, 2014:

BPV I – SG HRSG

- The meeting included the update on the Material subgroup discussion on commonly used materials (Gr. 91) in HRSG's. They are looking to tighten the requirements. This will include the material specification (i.e. chemical analysis).
- It was also reported that API 534 will be re-written to be a purchase (procurement) spec for HRSG-s installed after the gas turbine.

Standard Committee on Qualifications for Authorized Inspection (QAI)

- No further progress on the openness principal

BPV VIII – Subgroup on Design

- Incorporation of Class 1 Vessels into Section VIII Division 2--2017 Edition
 1. Class 1 Vessel to have Design Factor of 3.5 on Tensile Strength
 2. Class 2 Vessel to have Design Factor of 2.4 on Tensile Strength will be identical to the current Section Division 2 Vessels (i.e. Section VIII Division 2 2015 Edition)
 3. Class 1 Vessel will not be the same/identical to current Section VIII Division 1 vessel even though the Design Factor of 3.5 on Tensile Strength is the same.
 4. Wherever possible and practicable a Class 1 vessel to use same requirements as for a Class 2 vessel, e.g. material requirements, toughness requirements, weld joint requirements, design requirements/ design details , fabrication/inspection requirements and testing rules, taking into account the following:
 - a) Lower allowable design stress of Class 1 vs. Class 2 in the time independent regime
 - b) Minimum radiography requirement of spot RT for Joint Efficiency 0.85 for Class 1 vessel vs. minimum 10% RT for Class 2 vessel

- c) Lower toughness requirement of 15 ft-lb for Class 1 vessel vs 20 ft-lb for Class 2 vessel
 - d) No certification requirements for a Class 1 vessel User's Design Specification (UDS) or Manufacturer's Design Report (MDR), except if a Part 5 stress analysis is required then certification of the Part 5 analysis would be required. The certification requirement to be the same as for a Class 2 vessel MDR
 - e) For a Class 1 vessel when design rules are not provided for a vessel or vessel part in Part 4, allow either a stress analysis in accordance with Part 5 considering all of the loadings specified in the User's Design Specification or the use a recognized and generally acceptable design-by-rule method that meets the applicable design allowable stress criteria, i.e. $P_m \leq 1.0S$ & $P_b \leq 1.5S$.
 - f) For a Class 1 vessel if the design per (e) above is not possible, e.g., creep-fatigue), a design method consistent with the overall design philosophy of Class 1 acceptable to the user or his designated agent and certified as required for a Class 2 MDR may be used.
5. If agreement cannot be reached on certain items, e.g. additional weld joint and nozzle details to be included for Class 1, then this should be put into a parking lot for resolution after the publication of the first edition of Division 2 with Class 1 vessels included.

Task Group on U-2(g)

- The meeting included discussion on several items the task group is currently working on:
 - Addressing where the code should replace the words "See U-2(g)" with a reference to Division 2 rules where they are discussed in the Section VIII, Division 2 Code.
 - Developing a Mandatory Appendix for use of Division 2 rules in place where U-2(g) is discussed.
 - Developing a Non-mandatory Appendix for use of Division 2 rules in place where U-2(g) is discussed.
 - Proposal to develop new appendices to address minimum designer competence levels and qualification and certification requirements for personnel for U-2(g) work.

Task Group on Plate Heat Exchangers

- The development of the new Data Report Form for plate heat exchangers has been done and the new report format passed the SG HTE letter ballot. This task group addressed several comments from previous letter ballots. The item will be sent to BPV VIII for letter ballot.

TOMC

- PRT designator—Proposal is that PRT designator holder will need to demonstrate everything except for design. The question is whether this is this too much for someone who is doing welding only.
- An update was provided regarding the proposal for new Section XIII. Inquiry was conducted earlier this year and the summary report will be provided at the January 2015 meeting.

J. Technical Coordinating Committee Update

There was nothing new to report since the last meeting. The next meeting is scheduled for March 16, 2015.

K. Next Meeting

As determined previously in the meeting, the following meeting schedule was established, all held in Edmonton, commencing at 9:00 a.m.:

- Friday, January 23 – Regular meeting
- Thursday, April 2 – Special meeting
- Thursday, June 18 – Regular meeting
- Thursday, August 27 – Regular meeting
- Thursday, October 1 – Special meeting
- Thursday, December 3 – Regular meeting

Mike Clancy / John Wolff moved that the meeting be adjourned; CARRIED

The meeting was adjourned at 1:45 p.m.

--- ACTION ITEMS ---

F.1.03.14 Heritage Boilers Association of Alberta

Jim Weiss reported that he had a copy of the latest inventory list available. A copy will be placed on the portal in the BPVTC November 2014 meeting folder. [Weiss / Paches]

Jim Weiss will work with the Heritage Boilers Association of Alberta to coordinate with each of the other western provinces' associations to jointly submit a proposal to each of their respective governments for recognition of both the equipment and the operator. [Weiss]

F.2.04.14 Potential Amendment for Pressure Welders Regulation

As Bob Roseberg is unavailable for the meeting, arrangements will be made for another ABSA representative to attend. [Poehlmann]

F.1.06.14 Appointment of Ward Wagner to January 31, 2017

The Council was requested to advise Ward Wagner of the 2015 meeting dates. [Paches]

F.2.06.14 Pressure Equipment Safety Regulation – Sections 43 and 46

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G. Standing Agenda Items

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Further details were provided on a meeting held last week on the AB 500 documents and the minutes of this meeting will be provided to the Chair for circulation to the sub-council. [Srnicek / Lade]

I. ABSA/Administrator Report

The Technical Adviser suggested that consultation should be held with the Legal department and this will be pursued further. [Poehlmann / Hantelmann]

--- M O T I O N S ---

C. Adoption of the Agenda

Mike Clancy / John Wolff moved to adopt the agenda as amended; CARRIED

D. Adoption of the Minutes

John Valens / John Wolff moved to approve the minutes of October 17, 2014, as circulated; CARRIED

F.4.05.14 Timing for Transition of Chair & Preliminary Scheduling for 2015

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Mike Clancy / John Wolff moved that the meeting be adjourned; CARRIED