

Association of Chief Inspectors

52nd Annual Meeting - Banff, AB

2015 August 17th and 18th

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52.0 Call to Order

52.1 Opening Remarks

52.1.1 Chair Opening Remarks - Chris Selinger (The Chair) called for the start of the 2015 ACI meeting and thanked ABSA for arranging the meeting.

52.1.2 Welcome by Hosting Jurisdiction - Mike Poehlmann, Chief Inspector and Administrator, ABSA, welcomed everyone to Banff for the ACI meeting. Mike shared opening remarks on behalf of Bruce McDonald, Assistant Deputy Minister, Public Safety Division, Municipal Affairs, Government of Alberta who was unable to attend the opening of the meeting.

Mike Poehlmann also thanked the sponsors for the various meals and covered general housekeeping issues.

The Chair echoed Mike Poehlmann's thanks to the various sponsors and listed the organizations who sponsored the meeting. [Appendix A - List of Sponsors](#) contains the names of the event sponsors.

Motions and Action Items are tracked in a table in [Appendix B - Motions and Action Items Table](#)

52.1.3 Appointment of Recording Secretary - The Chair appointed Kathryn Black, Senior Engineer, TSASK, to record the meeting discussions and minutes.

Motion 1

Accept Kathryn Black as recording secretary was made by Mike Poehlmann and seconded by Madiha Kotb.

Carried (unanimous)

52.1.4 Attending Members & Guests - the attendance sheet is included in [Appendix C - Attendees Attendance List](#). Regrets were received from Paul Christensen, Yukon and Dave Douin, NBBI.

52.2 Membership Review - Chair

52.2.1 New Member - National Energy Board - Shah Ahmad
Shah Ahmad introduced himself to meeting attendees during his jurisdictional presentation. [Appendix D - NEB Letter of Application for Shah Ahmad](#).

Motion 2

Accept Shah Ahmad as new ACI member for NEB was made by Madiha Kotb and seconded by Mike Poehlmann.

Carried (unanimous)

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- 52.2.2 New Member - Manitoba - Ryan DeLury
Ryan DeLury introduced himself to meeting attendees during his jurisdictional presentation.

Motion 3

*Accept Ryan DeLury as new ACI member for Manitoba was made by Mike Poehlmann and seconded by Steven Townsend.
Carried (unanimous)*

- 52.2.3 Honorary Member - Ken Lau
The Chair introduced Ken Lau who retired from the role of Chief Inspector and Administrator, ABSA. Ken Lau has been attending ACI meetings for a very long time. He reflected on the changes that had to be made within the ACI and National Board to accommodate a newly formed ABSA - needed to be an employee of the "government" - so that Ken could continue to be a part of the ACI. He also further commented that all over the world, the federal governments have control of the pressure equipment. For North America, control is at the provincial and state level so very important to keep consistency and clarity in the rules governing pressure equipment. The goal of the ACI is to harmonize the rules across North America which is important to industry.

Motion 4

*Accept Ken Lau as honorary ACI member was made by Madiha Kotb and seconded by Dennis Eastman.
Carried (unanimous)*

- 52.2.4 Membership listing (members, alternate members, honorary members, committee members - ACI/TC, SOPEEC) was discussed. Listing will be finalized through an email request from the Chair. The list presented at the meeting is included in [Appendix E - 2015 ACI Membership Listing](#).

ACTION 1: Chair to send out email requesting the list included in [Appendix E - 2015 ACI Membership Listing](#) be updated.

ACTION 2: *Madiha Kotb agreed to review and complete the list of Honorary Members for the ACI.*

52.3 Approval of the 52nd Annual ACI Meeting Agenda - Members

- 52.3.1 Amendment to agenda:
52.10.2 - B52 should be B51

- 52.3.2 Addition of new business topics:
52.9.4 - Victaulic Fittings
52.9.5 - PCC-2 Discussions

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52.9.6 - CSA B51-14 Clause 7.4.1

Motion 5

Approval of the meeting agenda with changes as noted was made by Madiha Kotb and seconded by Mike Poehlmann.

Carried (unanimous)

52.4 Adoption of the 51st Annual ACI Meeting Minutes - Members

52.4.1 Amendments to the meeting minutes:

- Action Item 5: Remove as no report to share.
- 51.10.3 - Add note:

A presentation to NPSAC was made in the past regarding biomass boilers by PEI that may be of value to hear at the ACI.

Refer to attached file, "Item 52.4.1 Amended 51st Annual ACI Meeting Minutes"

Motion 6

Adoption of the 51st Annual ACI Meeting Minutes with amendments as noted was made by Madiha Kotb and seconded by Dennis Eastman.

Carried (unanimous)

52.5 Business Arising from the Minutes of the 51st Annual ACI Meeting:

52.5.1 (51.6.3) Central Registration of Fittings - Chair to request NPSAC to consider resending a previous Central Registration system for fittings proposal to CSA for review.

Refer to attached file, "Item 52.5.1 SCC Report on Harmonization" to view report. [Appendix F - NPSAC Central Registration of Fittings Letter Draft](#) contains the draft letter from ACI to NPSAC. Item is carried forward to the next meeting.

Minute Carried Over

52.5.2 (51.6.5 and 50.11.1) Composite Cylinders - Working group to review and explore request for life extension beyond 15 years of composite cylinders using acoustic emission - Tony Scholl, Adenike Adeoti, Cathy Turylo. Group has not met since last year. Item was carried forward to the next meeting.

Minute Carried Over

52.5.3 (51.6.10) Power Engineering Review & Assessment - To pursue HRSDC under AIT to provide an independent person/study to review and assess power engineer provincial certificate - Steven Townsend After many phone calls with the federal government, no progress was made. Suggest that the item should be closed.

Minute closed

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- 52.5.4 (51.6.11 and 50.15.3) Package Skid Systems - All jurisdictions to provide their responses as to how packaged skid systems are handled to RBQ (Aziz Khssassi) - Aziz Khssassi, Cathy Turylo, Djordje Srnic
Still looking for input from jurisdictions.

ACTION 3 - Chair will forward email from Aziz Khssassi to jurisdictions to provide a response to Aziz Khssassi.

- 52.5.5 (51.10.2) Biomass Boilers - Gap Analysis between ASME Section IV and PED for Biomass Boilers - Dennis Eastman, Chris Selinger
Recommendation from the ACI Technical Committee to close the minute.

Minute closed

52.6 Review of Correspondence Received - Chair

- 52.6.1 Compressed Gas Association (CGA) Harmonization of provincial/territorial pressure vessel and pressure piping registration requirements letter dated January 30, 2015 - Kim Greenwood

[Appendix G - CGA Letter with Attachment](#). Item was taken to the closed session.

Minute closed

- 52.6.2 Compilation of Potential Incidents & Near Misses - Asfaleia Inspection and Management Services Capture of Information for ACI Members on Potential Incidents and Near Misses Involving Pressure Equipment Operating within Canada letter dated September 10, 2014 - Brian Krasium.
Offer to compile the information for use by members only.
ACI asked for this topic to move to in-camera session for discussion because of confidentiality restrictions

[Appendix H - Asfaleia Inspection and Management Services Ltd.- 2014 September 10 Letter](#).

Minute closed

52.7 Member Updates and Accident Reports (Responsibilities and Directions):

- 52.7.1 Jurisdictions (BC, AB, [SK](#), [MB](#), [ON](#), QC, NB, NS, [PEI](#), [NL](#), [NU](#), [NT](#), YT(Unable to attend))

[Appendix I - Member Updates and Accident Reports](#). If the province is not highlighted, there is no report for that jurisdiction.

- 52.7.2 National Board of Boiler and Pressure Vessel Inspectors (NBBI)
Unable attend. No report was submitted.

- 52.7.3 Canadian Nuclear Safety Commission (CNSC)
Report is in [Appendix I](#). [Click here](#) to view CNSC report.

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52.7.4 National Energy Board (NEB)
Report is in [Appendix I](#). [Click here](#) to view NEB report.

52.8 Committee / Task Force / Liaison Reports

52.8.1 CSA Z662 - Mike Poehlmann

Published in June 2015. Extensive changes to the code. Discussion on the highlights of the changes:

- Clarification of the requirements for steam and high temperature pipelines
- Technical administrative clauses that referenced integrity management system revised into one clause.
- Cleaned up wording with respect to pressure vessel design and construction in accordance with CSA B51.
- Inservice repair update.
- Working on the next edition for two years down the road.

Question - oxygen piping done to Z662 - several km long. Was told it was common for other jurisdictions to allow. Requirements are different for Z662 rather than B31.3 which would be normally the code used for oxygen. Z662 does not include oxygen. Can the scope be clearer in Z662?

Response - Z662 does not address specifics so may need to include more requirements or explanations in the scope.

Response - Problem is some companies may approach the AER who then allow the use of Z662. In some cases, the jurisdiction may not even know that the pipeline was constructed using that code. Clarity in the scope of Z662 would help to make the use of Z662 clearer to companies so that its application is not used when the B31 codes might be more applicable.

ACTION 4: Mike Poehlmann will take the issue forward to the Z662 code committee with input from Cathy Turylo for their response and action.

52.8.2 ACI Technical Committee - Cathy Turylo

Refer to attached file, "Item 52.8.2 ACI Technical Committee Minutes" to view the minutes.

Highlights:

7.1 Biomass boilers

TC reviewed for a couple of sessions. Consider matter closed unless further direction from ACI. Information to note - EU provides incentives to replace old with new. Boiler design under ASME rules is not the same as European rules - lower factors of safety in EU because of early replacement - don't need the longevity of the higher factor of safety.

EU boiler manufactures are partnering with North American boiler manufacturers because the EU companies don't want to retrofit their shops. Since the EU are partnering with North American companies, the TC doesn't see the need for the ACI to accept the EU standards. PEI had a specific case that had to be dealt with but without further direction, the item is closed.

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Item taken to in-camera session

7.2 Fitting Design Review Checklists

Checklists are being developed.

7.3 Feedback on Appendices for Fitting Design Review Checklist

Some manufacturers have stopped manufacturing in North America and have started manufacturing in other areas. Some manufacturers are only a desk and a cellphone. They buy fittings from all over the world without QC. Consider revising checklist for fittings so it is clearer what is required so this type of thing is avoided.

7.4 Approach to Registrations of CNG and LNG piping and components

No further requirements from ACI so considered item to be closed.

7.5 Legal Value of the Statutory Declaration for the Registration of Fittings

Working on for new edition of Statutory Declaration for CSA B51

7.6 Provide contact list for CGA-OSEC for design registrations

Closed the item.

Additional item:

B31.3 PWHT requirements have changed - all P1 groups do not require PWHT regardless of thickness. NDE personnel requirements are different too. Is there any direction from the ACI with regard to these issues?

No direction given at this time.

Next meeting for TC:

Alberta will be the next venue for the Technical Committee meeting next year.

Summary table included with minutes.

ACTION 5: Cathy Turylo to include Yanpang Wang, CNSC, for the next meeting of the TC.

- 52.8.3 NPSAC (National Public Safety Advisory Committee) - Dennis Eastman
Nothing new to report. Makeup of the NPSAC has changed over the years. Advisory committee for all those areas that fall within public safety. Different areas are now joining the committee and so there are different perspectives being brought to the table.
ACI had NPSAC member present to the group last year. Better relationship might be an advantage. NPSAC is looking for the terms of references and constitutions of the different Regulatory Authority Advisory Bodies (RAAB) (ACI is an RAAB) to better understand the roles of the different groups.
New software that can crawl through the legislations to find out what codes and standards are referenced. Many codes and standards are outdated both federally and provincially. Lots of times the standard no longer exists.
The NPSAC meet spring and fall with the next meeting in November.

52.9 New Business

- 52.9.1 Compressed Natural Gas (CNG) - how are jurisdictions dealing with compressor stations, decant delivery locations, installation contractors, and technician qualifications - Eben Creaser

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Background:

Industrial sized compressor stations are being installed. Running into jurisdictional issues between Gas Inspections and BPV installations. Looking for feedback on how others are handling the different requirements from the boiler and pressure vessel side.

Discussion:

Definitely some of the installation falls under the gas regulation - handle as a gas package (skids). Field plants are a different story. BC can give some direction on how things have been handled there. Trailers are not for refueling but are decanting into systems. Would sure like to set up some rules for these types of installations.

Clarification:

High pressure gas coming out of a gas pipeline is compressed to a very high pressure and put into a trailer which then dispenses into another facility such as into a large food processing plant. Consider it a pipeline on wheels as trailers can be filled from the high pressure gas output and moved to the facility where the gas is used. Need to get on the same page as this question has come to the Technical Committee.

ACTION 6: Tony Scholl and ABSA will provide feedback to New Brunswick

Minute closed

52.9.2 Propane vessel relief device servicing intervals

Item was discussed as part of the CPA presentation. Refer to 52.12.2 for presentation and supporting information.

Minute Carried Over

52.9.3 ACI Logo and letterhead - Chris Selinger

Background:

Would like to establish a logo for meeting minutes and certificates.

Discussion:

In the past, there were fancy certificates whose cost were covered by one province. Because the ACI is not a legal entity, the use of a logo might not be a good idea. If a logo is designed, then should be put into the constitution the use and control of the logo. Interest to see a logo developed.

Resolution:

No action item. But if someone would like to do something for next meeting, that is acceptable.

Minute closed

52.9.4 Victaulic fittings - Cathy Turylo

Background:

Victaulic hydronic heating product line - 3 times test pressure for design registration; however, no identifying markings specific to the limited service

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application. There is much more rigorous testing for fittings that are used with pressure equipment than with plumbing fittings. Are there any concerns?

Discussion:

Others have the same concerns - steam application would not be acceptable. Some jurisdictions have accepted up to 6" for gas and non-toxic fluid. For heating systems, up to 12" have been accepted but still have reservations about the testing. How can we be sure that whoever installs them will do it properly? How will the message be conveyed?

Victaulic created a detailed manual that has been accepted for Cat D up to 6". Proof test is more than 3 times design pressure. There are other companies who make this type of fittings. Need to see it expanded to cover all mechanical joint fittings. Other companies would like to have the same approach given to Victaulic. How are these identified and how do we ensure they are a registered product and don't get put into the wrong service?

The identification of the fitting is part of the installation approval. However, the fittings are not uniquely identified and so will not stand out to inspectors. Right now, the fittings are being constructed to plumbing standards.

Resolution:

Make the companies develop a standard that the fittings will get certified to and ensure they are referencing the standards that are applicable to the fitting. These are outside the usual scope so need to be tested to a standard in order to be used in a non-plumbing application.

Minute closed

52.9.5 PCC-2 Repair of Pressure Equipment and Piping (ASME) - Cathy Turylo

Background:

Not a standard that is recognized by CSA B51. Construction companies are wanting to use PCC-2 for repairs for equipment that have gone below minimum wall thickness. The PCC-2 has specific standards for how to rebuild the equipment and calculations for the repair.

A jurisdiction was approached to approve a whole product line associated with PCC-2. Jurisdiction would not do that as not comfortable with the PCC-2 code yet. However, the jurisdiction did allow the use of PCC-2 with a lot of oversight. Provincial approval is given for a given site with a finite life of the product. The repair has to be monitored and eventually removed. Degradation modes must be known by owner.

Discussion:

Engineering design is included with calculations for short or long term life. Very complex. Problem is the design and registration of the product. Certification is also an issue as jurisdictions have no clear approach for approvals. Some jurisdictions are handling as an alteration.

PCC-2 is referred to in the NBIC so may be allowed by a jurisdiction; but, with a whole list of conditions and on a case by case basis. Since companies using PCC-2 do

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extensive material testing, they want the basic test reports to be registered.

Unfortunately, each of the cases is very unique.

Some jurisdictions would like to see something go into CSA B51 regarding the use of PCC-2 eventually. For now, jurisdictions need to gain experience with PCC-2 before including making that step.

Resolution:

Gain experience with PCC-2 on a case by case basis before considering input into CSA B51.

Minute closed

- 52.9.6 CSA B51-14 Clause 7.4.1 on water heaters with specific reference to the interpretation of clause 7.4.1.1 - Matthias Mailman

Seems to be some confusion with this clause within industry and companies. Split decision on this clause around this table. Tank that is greater than 24" but less than 400,000 BTUs. Is it exempt? Would then a 30" tank but only 200,000 BTUs be exempt?

Discussion:

Half of the jurisdictions would exempt and half would not. Discussion continued over how the clause is written and what the intention of the clause should be. Question was asked on how many jurisdictions have a definition of what a hot water tank is in their legislation. Mixed response from jurisdictions but definitely not in all regulations.

Background:

Limit criteria has always been 24" for hot water tanks. Then, in 1997, the ACI was asked to consider hot water tanks with a heating element. The clause was then amended in CSA B51; but, the first criteria was still 24" or less. The heating element size was a secondary consideration. Originally, the clause read -

Hot water heaters not greater than 24" are not subjected to the requirements of this standard provided:

- *Not directly fired; or*
- *If directly fired, 400,000 BTU input or less*

The 24" diameter was the industry requirement. The 24" was being used by industry to keep the tanks outside of the scope of CSA B51.

Response:

Call for input from the jurisdictions seated around the table:

AB - applies the diameter rule - regulation.

NB - exempt. Regulations

PEI - exempt. Regulations

ON - exempt. Regulations stipulate 24" plus other criteria

SK - either one. Regulations stipulate specific conditions

BC - either condition

MB - either condition.

QB - either condition. Regulation stipulation

NS - either condition. Regulation stipulation

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Further Discussion

ACI members appreciated that the matter was raised within the ACI. Jurisdictions are governed by their legislation and adopted codes. However, the jurisdictions can always do what they feel best aligns with their obligations. Engineering standards should set the limit based on the need/science. Originally, CSA B51 did not want to impose the limit of a PV to a specific size. That is up to the jurisdiction. The jurisdiction interprets the law so they can set a specific size based on their jurisdictional needs. In other words, the Code is setting the engineering standards and the jurisdictions are setting the legal requirement. Finally, the CSA B51 Code Committee then interprets the code.

Recommendation:

Let the CSA B51 Code Committee decide what the engineering should be.

Resolution:

If Matthias Mailman requires further discussion, he can ask for an interpretation from the CSA Code Committee. Item will not go forward from the ACI to the CSA committee.

Minute closed

52.10 Reports / Presentations of CSA B51 Sub Committees

52.10.1 CSA B51 Clause 6 - Cathy Turylo

Limited progress. Have a few issues that are being worked through. Needing to get back on track. No report.

52.10.2 CSA B51 Clause 7 - Djordje Smic

Changes highlighted in the report. Cold stretched vessels are part of Clause 7. Once proposal is ready, will provide the Annex draft.
Do not have the report.

52.10.3 CSA B51 Clause 4, 5, 8, 11 Annex D, Annex J - Kim Greenwood

Met in May in Montreal. Discussed several topics. Minutes posted on community site. Table of possible changes. Need feedback on the proposed changes. Questions on the table should be directed to Kim. Feedback should be sent to Kim. Ballot in the fall.

52.10.4 CSA B51 Clause 12 and Annex H - Kim Greenwood

Presented some changes to the B51 committee for review. Will send out in the fall as a ballot.

52.10.5 CSA B51 Clause 13 - Susanne Kotz

Email meeting on whether or not the subcommittee should continue. Everyone thinks the committee has completed their work so should be closed.

52.10.6 CSA B51 Part 2 and Part 3 - Susanne Kotz

Making sure the requirements are the same for the NB counterparts

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52.11 Review of CSA Committee Agenda

52.11.1 CSA B51 Agenda - Affirmation of the NBIC will be a recorded vote. Assuming no concerns on that item. Chairs and vice chairs are balanced between a regulatory and industry positions. Changes will be made at the end of the meeting.

[Appendix J - CSA B51 - Technical Committee Agenda.](#)

52.11.2 CSA B52 Agenda - Ballot out for the handbook. Thank you to everyone for their support. Any technical matters should be addressed before the handbook is finalized.

[Appendix K - CSA B52 - Technical Committee Agenda](#)

Chair and vice chair positions need to be changed out regularly. Would like to transition B52 to standing committees. Allows for development and participation in B52. Looking to meet the needs of the CSA requirements for executive changes. Anyone interested in taking on a standing committee for B52 should let Cathy know.

52.12 Other Business / Presentations

52.12.1 ASME Conformity Assessment - Paul Lang, Director of Auditing and Inspection, CA&P - Conformity Assessment, ASME. Further discussion and questions for AIAs moved to in-camera session.

Refer to attached file, "Item 52.12.1 ASME Conformity Assessment" to view the presentation.

52.12.2 Canadian Propane Association - Melanie Levac, Senior Director, Policy and Regulatory Affairs, Canadian Propane Association & Russel Cardot.

Refer to attached file, "Item 52.12.2 CPA Presentation" to view the presentation.

Refer to attached file, "Item 52.12.2 CPA Letter to ACI" to view both the letter and the CPA submission to the CSA B51 Clause 12 Committee.

Refer to attached file, "Item 52.12.2 CPA Submission to TSASK" to view the report, Pressure Relief Valve (PRV) Visual Inspections, Servicing and Replacement Intervals, and Data Collection Requirements for Propane Tanks from the CPA to TSASK.

Questions & Comments:

Question - 740,000 tanks will need to be serviced - are you specifically speaking only of the relief valve or the full tank inspection?

Answer - If doing the PRD, companies will do the external inspection and change the valving at the same time. Just make sense to do at the same time when replacing the PRD.

Question - Tanks over 2500 USWG, don't those tanks have multiple PRDs for inservice change out?

Answer - Not all of the tanks have the dual valving especially in Alberta.

Question - Why 10 years?

Answer - CPA is asking for a ten year implementation time frame to bring the tanks up to standard. The numbers (740,000) include all the tanks across Canada; however, some would have had some servicing done. The CPA 10 year servicing

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implementation also includes time to get the smaller companies to understand what is required.

Once the CSA B51-14 is adopted in a jurisdiction, the requirements need to be complied with by the propane industry. In NB, the non-mandatory appendix was considered mandatory; so, now instead of every 5 years, its every 25 years so should be in better shape in NB.

Question - The CPA presentation message is that CSA B51 Clause 12 is a hardship on propane companies and will take a lot of resources to be compliant. What would the CPA propose as an alternative?

Answer - hard question to answer. The 10 year time frame would allow propane companies the time to address the PRD issues and bring their inventories into compliance.

Question - Do companies have records on when the PRDs are serviced?

Answer - cannot speak to the workings of all companies but most do.

Question - By the end of this calendar year, the CPA is recommending that each company have a detailed implementation plan approved by the jurisdiction(s) they operate in?

Answer - Yes. That is the approach the CPA is recommending.

Follow up - when Clause 12 was discussed, the estimate for compliance by the industry was 7 years. Need to take the time to work out the schedule of activities.

Answer - in some of the jurisdictions, individual companies have a quality assurance program that covers the handling of the tanks. This includes servicing times and approach to ensuring compliance. It is based on the inventory of the company that is registered with the jurisdictional authority.

Each jurisdiction has unique variations on their legislation and enforcement requirements. Some of the jurisdictions have already officially adopted CSA B51-14 while others are still working on it. Some chief inspectors have the power to provide variances while others may not. A national plan may be too difficult to achieve. Working with each individual jurisdiction and each individual company may be the only way that the process can move forward.

Question - The CPA has known this clause was coming as a new edition of the CSA B51-14 code at least three years ago. So are you in year 3 of the 10 year plan or is the propane industry needing another 10 years?

Answer - each individual company has had to work with the jurisdictions to formulate best practices. The industry may be at fault for delaying the start of the program; but, there is a resource issue here to get all the tanks up to compliance. Some provinces never enforced the requirement.

In Alberta, these tanks have been under the radar. After initial inspection, the tank would not be seen again until there was a repair. The following up of the installations was done by the gas inspections area. ABSA is going to accept the CPA proposal through an information item issued on the Municipal Affairs website for companies within Alberta.

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Question - How was changing the time frame from 10 to 12 years for the PRDs to 25 years achieved by the valve manufacturers?

Answer - The valve manufacturers believe these valves are able to go up to 30 years. The 10 to 15 years was set as half the life of the valve and to catch those valves that may not last as long.

ACTION 7: Chair to follow up with the CPA and provide information to the ACI.

Minute Carried Over

52.12.3 Institute of Power Engineers - Risk Analysis for the Standardization of Plant Ratings - Ed Hyntka, President, Alberta Institute of Power Engineers.
Do not have a copy of the presentation.

Discussion:

- There was disagreement over the comment that the higher levels will make it harder for power engineers to get operating time. Higher levels have increased opportunities for power engineers in some jurisdictions. Most felt that the statement that increasing the ratings reduces safe coverage could not be justified.
- IPE is promoting standardization between the jurisdictions. ACI suggests that the IPE should allow the process to evolve before making a judgement on the impact to safety.
- IPE would like to be a stakeholder at the meetings where changes are being discussed.
- At the NPSAC level is likely where the changes are going to take place.

52.13 Future Meetings - Dates and Location

52.13.1 Future Meetings - Dates and Locations

Next meeting is in New Brunswick - The meeting will be held in St. Andrews by the Sea at the Algonquin Hotel during the week of August 22nd, 2016.

Nunavut has declined to host the 2017 meeting - Nunavut will not be in a position to host in 2017 so all hosts will move up by one year. Saskatchewan will be 2017.

52.14 In-Camera Closed Session

Members took their own minutes from the meeting. Attachments for the meeting are included here.

15.14.1 NPSAC-ACI Cooperation

Refer to attached file, "Item 52.14.1 In-Camera Session - NPSAC ACI Cooperation Letter" to view the letter.

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15.14.2 ACI Constitution Amendments

Refer to attached file, "Item 52.14.2 In-Camera Session - Draft ACI Constitutional Changes" to view the recommendations.

52.15 Standardization of Power Engineer Examinations Committee (SOPEEC)

52.15.1 SOPEEC Chair's Report - Steven Townsend

Do not have the report.

52.15.2 SOPEEC Coordinator's Report - Tom Leming

[Appendix L - 2015 SOPEEC Budget](#)

Refer to attached file, "Item 52.15.2 SOPEEC Coordinator Report" to view.

52.15.3 Boiler and Refrigeration Plant Risk Based Model

[Appendix M - Draft Letter - ACI to NPSAC Uniform Plant Ratings](#)

52.16 Adjournment

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Appendix A - List of Sponsors

The following organizations were sponsors of the 2015 ACI meeting:

Alberta Boilers Safety Association (ABSA)
Alberta Council for International Cooperation (ACIC)
Alberta Council of Turnaround Industry Maintenance Stakeholders (ACTIMS)
Information Handling Services Inc. (iHS)
International Brotherhood of Boilermakers
International Pressure Equipment Integrity Association (IPEIA)
Safety Codes Council
Saskatoon Boiler Mfg. Co. Ltd.
The Boiler Inspection and Insurance Company of Canada (BI&I)
The Canadian Boiler and Machinery Underwriters' Association (CB/MUA)
The National Board of Boiler and Pressure Vessel Inspectors (NBBI)

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Appendix B - Motions & Action Items Tables

MOTIONS				
#	Description	Motion made by:	Seconded by:	Carried
1.	Accept Kathryn Black as recording secretary.	Mike Poehlmann	Madiha Kotb	Yes
2.	Accept Shah Ahmad as new ACI member for NEB.	Madiha Kotb	Mike Poehlmann	Yes
3.	Accept Ryan DeLury as new ACI member for Manitoba.	Mike Poehlmann	Steven Townsend	Yes
4.	Accept Ken Lau as honorary ACI member.	Madiha Kotb	Dennis Eastman	Yes
5.	Approval of the meeting agenda with changes as noted.	Madiha Kotb	Mike Poehlmann	Yes
6.	Adoption of the 51 st Annual ACI Meeting Minutes with amendments as noted.	Madiha Kotb	Dennis Eastman	Yes

ACTIONS		
#	Reference	Description
1.	52.2.4	Membership List Update - Chair to send out email requesting the list included in <i>Appendix D - 2015 ACI Membership Listing</i> be updated
2.	52.2.4	Membership List - Madiha Kotb agreed to review and complete the list of Honourary Members for the ACI.
3.	52.5.5	Packaged Skid Systems - Chair will forward email from Aziz Khssassi to jurisdictions to provide a response to Aziz Khssassi.
4.	52.8.1	CSA Z662 - Mike Poehlmann will take the issue forward to the Z662 code committee with input from Cathy Turylo for their response and action.
5.	52.8.2	Technical Committee - Cathy Turylo to include Yanpang Wang, CNSC, for the next meeting of the TC.
6.	52.9.1	Compressed Natural Gas - Tony Scholl and ABSA will provide feedback to New Brunswick.
7.	52.12.2	Canadian Propane Association - Chair to follow up with CPA and provide information to the ACI.

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Appendix C - Attendees Attendance List

Association of Chief Inspectors Meeting
Banff, Alberta

2015 August 17 & 18

Attendance	Representing	Member/ Non-member	Initials for 2015	
			Aug 17	Aug 18
Chris Selinger	TSASK	Member	CS	CS
Tony Scholl	BCSA	Member	TS	TS
Eben Creaser	NB Public Safety	Member	EC	EC
Izak Roux		Guest	✓	
Allan Hantelmann	AMA	Non-member	AH	AH
Brian Krasiun	Asfaleia Ltd	Honourary Member	BK	BK
Ryan DeLury	OFC/ITSM (MB)	Member	RD	RD
Richard Allison	National Board	Alternate Member	RA	RA
Cathy Turylo	TSSA (ON)	Alternate Member	CT	CT
Oreste Simonetta	CSA Group	Guest	OS	OS
Kim Greenwood	CSA B51 TC & SC 12 & Lic Plate	Guest	KG	KG
Ken Lau	ABSA	Honourary Member	KL	KL
Mike Adams	TSSA	Member	MA	MA
Mike Poehlmann	ABSA	Member	MP	MP
Steven Townsend	PEI Environment Department	Member	✓	✓
Matthias Mailman	NWT Safety	Member	MM	MM
Peter Dodge	NS-BPE	Member	PD	PD
Dennis Eastman	NL -Service NL	Member	DE	DE
Muhammad Wani	GOVERNMENT OF Nunavut	Member	Q	Q
Madiha Kotb	RBQ - Quebec	Member	M.K.	M.K.

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Association of Chief Inspectors Meeting
Banff, Alberta

2015 August 17 & 18

Attendance	Representing	Member/ Non-member	Initials for 2015	
			Aug 17	Aug 18
Paul Sterescu	BI&I for CBMUA	Guest	PS	PS
Yanpeng Wang	CNSC	Member	YW	YW
Shah Ahmad	NEB	Member	SA	SA
Kathryn A Black	TSASK	Non-member/ Minutes	KAB	KAB
Melanie Laval	CPA	Guest	✓	
Ed Hoytka	IPE	Guest	✓	
Adenike Adeoti	TSASK	Non-member	AA	AA
Caslav Dinic	TSSA	Non-member	CD	CD
Djordje Srnic	ABSA	Alternate Member	JS	JS
→ Susana Katz	S Katz & Assoc	Non-member	SK	SK
Tom Leming	ABSA	Non-member	TL	TL
Reggie Gillies	SaskPower	Guest	RG	RG
Jim Weiss	Acuren	Guest	JW	JW
Lili Zhang	Plains Midstream Canada	Non-member	LZ	LZ
Paul Lang	ASME	Guest		
Russel Cardot	CPA	Guest		
Kavita Ramcharan	BI&I	Guest		
Kathleen Fairhead	IAS	Guest	KF	KF
Susana Katz	S, Katz & Assoc	Guest	SK	

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Appendix D - NEB Letter of Application for Shah Ahmad

National Energy
Board



Office national
de l'énergie

20 July 2015

Chris Selinger, P.Eng.
VP Operations and Chief Inspector
Technical Safety Authority of Saskatchewan
Chair, Canadian Association of Chief Inspectors (ACI)
2202 2nd Avenue, REGINA, SK S4R 1K3

Dear Mr. Selinger,

SUBJECT: National Energy Board (NEB) Membership in Canadian Association of Chief Engineers (ACE)

This is to request nomination of Shah Ahmad, P.Eng, for membership in the Association of Chief Inspectors representing the National Energy Board. Shah will replace Glenn Cameron, P.Eng, as the NEB's member.

I take the opportunity to advise that the NEB is supportive of the activities and time commitment that ACE requires.

Arrangements are currently being made for Shah to be present at the ACE Annual Meeting and the CSA B51 and CSA B52 committee meetings scheduled for 17 – 20 August, 2015 in Banff, Alberta.

Sincerely,

Chris Loewen,
Vice President, Operations,
National Energy Board,
517 10th Avenue SW Calgary AB T2R 0A8,
Government of Canada.
christopher.loewen@neb-one.gc.ca
403 299 3186

517 Tenth Avenue SW
Calgary, Alberta T2R 0A8

517, Dixième Avenue S.-O.
Calgary (Alberta) T2R 0A8

Canada

Telephone/Téléphone : 403-292-4800
Facsimile/Télocopieur : 403-292-5503
www.neb-one.gc.ca
Telephone/Téléphone : 1-800-899-1265
Facsimile/Télocopieur : 1-877-288-8803

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Appendix E - 2015 ACI Membership Listing

ACI Member

Chris Selinger - SK
David Douin - NBBI
Dennis Eastman - NL
Eben Creaser - NB
Madiha Kotb - QC
Matthias Mailman - NT
Mike Adams - ON
Mike Poehlmann - AB
Muhammad Wani - NU
Paul Christensen - YT
Peter Dodge - NS
Ryan DeLury - MB
Shah Ammad - NEB
Steven Townsend - PE
Tony Scholl - BC
Yanpang Wang - CNSC

ACI Alternate

Aziz Khssassi - QC
Cathy Turylo - ON
Dick Allison - NBBI
Don Ehler - NS

ACI Honorary Members

Brian Krasium
Ken Hines
Ken Lau

ACI TC

Don Ehler - NS (Chair)
Adenike Adeoti - SK
Blagovest Levitcharsky - QC
Cathy Turylo - ON
Djordje Srnic - AB
Ryan DeLury - MB

SOPEEC

Tom Leming - SOPEEC
Alain Deschamps - QC
Eben Creaser - NB
James Brake - NL
Jerry Stadnyk - SK
Joe Rasso - ON
Joe Simms - NS
John Siggers - AB
Matthias Mailman - NT
Michael Cully - BC
Muhammad Wani - NU
Paul Christensen - YT
Steven Townsend - PE
Sukhbir Brae - MB

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Appendix F - Item 52.5.1 NPSAC Central Registration of Fittings Letter Draft

August 11, 2015

National Public Safety Advisory Committee (NPSAC)
Suite 1000, 10665 Jasper Ave
EDMONTON AB T5J 3S9

via email

Attn: Brain Alford, Chair, NPSAC
Trudy Rotgans, Vice-Chair, NPSAC
Douglas Montgomery, NPSAC Secretariat

Re: **Central Registration of Fittings Proposal**

The Association of Chief Boiler and Pressure Vessel Inspectors (ACI) consists of federal/provincial/territorial representatives responsible for the administration and enforcement of boiler and pressure vessel (BPV) and operating engineer (OE) laws. We represent the highest technical authorities for BPV safety. The ACI promotes uniform, coordinated and consistent administration and enforcement related to the BPV and OE legislation.

The ACI has been approached by the Canadian Standards Association (CSA), the Compressed Gas Association (CGA), and other stakeholders to offer a single national design registration for pressure fitting designs. BPV Stakeholders would like to see a single, centrally coordinated process for registration of pressure fittings for a variety of reasons.

Pressure fittings are appurtenances attached to a boiler, pressure vessel or pressure piping such as valves, gauges and control devices. All provinces have requirements for design registration of pressure fittings. The *CSA B51-14 Boiler, pressure vessel and pressure piping code* (CSA B51 Code) further recognizes and requires registration of pressure fittings and defines the registration through a Canadian Registration Number (CRN) issued by each regulatory authority. While provided the title Canadian within CRN, registration must be provided by all jurisdictions individually requiring registration.

The request for a single national design registration process is not new to the ACI who explored the concept in the past. Changes were even recommended to CSA and adopted in the CSA B51 Code to recognize a CRN allotted to a centrally registered fitting design. However, a task group formed by the ACI stopped work on the project with legal advice and highlighted risk associated with anti-competition laws.

BPV stakeholders, including CSA, believe a new legal opinion may be provided based on the new environment and a differing option of achieving a single, centrally coordinated process for registration of pressure fittings.

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Central Registration of Fittings Proposal
Page 2
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The ACI is not willing to pursue a review or recommendations for a single, centrally coordinated process for registration of pressure fittings based on the history, advice received and their role as the technical regulatory authorities mandated with the administration and enforcement of BPV legislation. However, the ACI recognizes this issue will need review at a regulatory and public policy advisory level to determine a strategic direction.

At the 2014 Annual ACI Meeting, an action was made to forward a related document to NPSAC indicated as available by CSA ("Canadian Registration Number (CRN) Harmonization Feasibility Study: Prepared by SCC on behalf of Natural Resources Canada"). The ACI had not seen the document but acknowledged to the stakeholder that the information would be shared to further inform NPSAC on this topic.

Much of the rationale for, past review work, and current debate is of length and or sensitive nature to not share in letter. The ACI will forward names for consultation of interested stakeholders and current or past ACI members for NPSAC to explore the issue. The ACI looks forward to any further strategic direction on this issue.

Sincerely

Chris Selinger, P.Eng.
Chief Inspector
Chair, ACI

cc: Tony Scholl, BC Safety Authority, Vice-Chair, ACI
ACI members distribution list

Att: "Canadian Registration Number (CRN) Harmonization Feasibility Study: Prepared by SCC on behalf of Natural Resources Canada"

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Appendix G - Item 52.6.1 CGA Letter and Report on Harmonization



300 Earl Grey Drive, Suite 451, Ottawa, ON K2T 1C1, Canada
1 (703) 788-2700 | Fax: 1 (703) 961-1831 | Email: cga@cganet.com | www.cganet.com

January 30, 2015

Association of Chief Boiler and Pressure Vessel Inspectors (ACI)
c/o Chris Selinger
Chair, ACI
Chief Inspector, Technical Safety Authority of Saskatchewan
2202 2nd Ave.
Regina, SK S4R 1K3
Email: chris.selinger@tsask.ca

**Re: Harmonisation of provincial/territorial pressure vessel and pressure piping
registration requirements**

Dear Mr. Selinger,

The Compressed Gas Association (CGA), founded in 1913, is dedicated to the development and promotion of safety standards and safe practices in the industrial, medical, and food gases industry. CGA represents over 120 member companies in all facets of the industry: manufacturers, distributors, suppliers, and transporters of gases, cryogenic liquids, and related products and services. Through a committee system, CGA develops technical specifications, safety standards, and training and educational materials, and works with government agencies in formulating responsible regulations and standards and in promoting compliance with these regulations and standards.

In light of the difficulties encountered by industry in operating and moving equipment across provinces and territories in compliance with the various regulatory requirements and safe practices, CGA's Canadian Pressure Vessels and Piping Systems Committee reviewed the requirements found on the websites of the bodies responsible for enforcing pressure vessel and pressure piping requirements in every province and territory in Canada. In the attachment to this letter, please find included a summary of differences noted during this review.

CGA understands that there has been discussion at the Association of Chief Boiler and Pressure Vessel Inspectors (ACI) regarding the possible development of a central registration system for pressure vessels and fittings. We encourage further discussion on this subject. To facilitate a harmonised approach between provinces and territories, CGA is providing suggestions for harmonisation and the rationales for these suggestions, along with the summary of differences in requirements.

We respectfully ask that you share this summary with the ACI for consideration. We also respectfully request that CGA member representation be permitted to attend a meeting of the ACI to discuss the details of our document.

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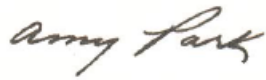
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Please contact me at your earliest convenience to discuss our request. We appreciate your attention to this matter and look forward to our future discussions.

Sincerely,

COMPRESSED GAS ASSOCIATION



Amy H. Park
Technical and Administrative Manager
Telephone: 1-613-599-3766 or 1-703-788-2743
Email: apark@cganet.com

Attachment

Association of Chief Inspectors

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Appendix G - Item 52.6.1 CGA Letter's Attachment

Provincial/Territorial Pressure Vessel and Pressure Piping Registration

	Difference noted	Suggestion for harmonisation	Rationale for suggestion
1	Registration of new pressure vessels – Even when applying for national registration through the provinces/territories that offer it, the applicant is responsible for submitting province/territory-specific documents so that each province/territory has its required documentation on the pressure vessel.	- Establish harmonised documentation requirements for submittal. - Establish a single point of national registration. - In the absence of a national registration service, expand availability at the provincial/territorial level of a registration service for all provinces/territories.	- Streamline or harmonise the process. Having different requirements and processes between provinces/territories may increase the possibility of inadvertent gaps or omissions in the registration documents, leading to delays. - It may encourage local suppliers to apply for Canadian Registration Numbers (CRNs) for their pressure vessels to be used outside of their province/territory, increasing availability nationally.
2	Registration of used pressure vessels – Some provinces/territories facilitate registration when a CRN from another province/territory exists.	- Specify uniform requirements for approving used pressure vessels, and facilitate acceptance when a used pressure vessel has an existing Canadian registration from another province/territory. - Used pressure vessels with an existing Canadian registration should be evaluated based on the design requirements in force at the time of fabrication.	- To facilitate the process for companies moving equipment from one province/territory to another. - To address or resolve difficulties in obtaining approvals from provinces/territories for used pressure vessels that have an existing Canadian registration from another province/territory. A previous Canadian registration indicates that requirements were met at time of fabrication.
3	Registration of used pressure vessels – Quebec has a process, which is not offered by any other province/territory, to issue a certificate of inspection for used pressure vessels without CRNs.	- Develop a similar process for all of the provinces/territories. - Define criteria (possibly a flowchart) to determine uniformly what tests and/or inspections are required.	To facilitate the process for companies moving equipment from one province/territory to another.

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4	Registration of used pressure vessels – Some testing and inspection requirements are not appropriate for tanks in cryogenic liquid (refrigerated liquefied gas) or carbon dioxide service.	Procedures/requirements should differ depending on the pressure vessel material, product contained, risk of corrosion, insulation/jacket, fatigue (pressure cycling), etc.	Pressure vessels for cryogenic liquids (refrigerated liquefied gases) or carbon dioxide have characteristics (e.g. may contain non-corrosive products, may be vacuum-jacketed) that may provide for or necessitate a different approach versus typical pressure vessels used in other industries.
5	Registration of used pressure vessels – There is no national registration service offered for used pressure vessels.	Similar to the proposal for new pressure vessel registration above (see row 1): - Establish harmonised documentation requirements for submittal. - Establish a single point of national registration. - In the absence of a national registration service, expand availability at the provincial/territorial level of a registration service for all provinces/territories.	Streamline or harmonise the process. Having different requirements and processes between provinces/territories may increase the possibility of inadvertent gaps or omissions in the registration documents, leading to delays.
6	Field pressure piping fabrication and installation – Not all provinces/territories require a quality manual registered with the province. – Quality manuals are not recognised from one province/territory to another; there are inconsistent content requirements between jurisdictions.	- Establish consistent requirements for format, contents, and renewal of quality manuals. - Define minimum requirements for contents only, removing any requirements regarding format. - There should be a process to facilitate approval by a province/territory of a quality manual that has been previously approved by another province/territory.	Provincial/territorial requirements for quality manuals are mostly the same especially regarding the substantive contents, but there are different requirements regarding format. This creates significant administrative burden and complexity (i.e. having different manuals for different provinces/territories).

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7	Pressure piping installation – Brazing/welding certifications and procedures are not recognised from one province/territory to another; there are inconsistent requirements between jurisdictions.	- Separate requirements for brazing and welding. - Harmonise requirements for brazing, and harmonise requirements for welding, across the provinces/territories. - Standardise log requirements. - Standardise frequency of renewal. - Harmonise requirements for registration of welders/brazers and welding/brazing procedures, and recognise licences from other provinces/territories.	- Brazing and welding are significantly different procedures. Brazing is a simpler process than welding. There are only a limited number of brazers, making apprenticeship requirements difficult to meet. - Rationale for harmonised requirements is similar to that above regarding quality manuals (see row 6). - Work on cryogenic equipment is specialised, and the number of trained workers is limited.
8	Pressure piping installation – Different methodologies are followed from one province/territory to another for documenting and/or registering pressure piping systems.	In all provinces/territories, there should be a common methodology (e.g. depending on piping diameter or volume) for documenting and/or registering pressure piping systems.	- Rationale for harmonised requirements is similar to that above regarding quality manuals (see row 6). - To facilitate relocating and using equipment from one province/territory to another.
9	Registration of fittings – Some provinces/territories do not require CRNs for some categories of fittings (i.e. Categories A, B, C, and G, for British Columbia and Saskatchewan).	Consider extending this further across all provinces/territories.	To streamline the process to have consistency across all provinces/territories.
10	Registration of fittings – Not all provinces/territories offer national registration.	- Recommend that a registration service (e.g. ACI Central, CSA) be recognised by all provinces/territories. - Consider offering of national registration by all provinces/territories. - In the absence of a national registration service, provincial/territorial authorities could recognise CRNs issued by another province/territory for some categories of fittings.	Onerous and inconsistent registration requirements deter some manufacturers, particularly foreign manufacturers, from applying for CRNs. This sometimes leads to compromises, being limited to only those parts that have CRNs rather than using parts that are the best engineering solution (e.g. for safety, reliability, efficiency).

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11	In-service inspection requirements – Inspection requirements vary from one province/territory to another. Some have the authority having jurisdiction (AHJ) perform inspections every 1 to 5 years, and some may allow an authorised inspector (e.g. third-party insurance company) to perform inspections on a 3-year or 4-year basis.	Establish uniform in-service inspection requirements across provinces/territories (including frequency of and who has responsibility for inspections).	Simplify managing the renewal process when operating in more than one province/territory.
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Appendix H - Asfaleia Inspection and Management Services Ltd.- 2014 September 10 Letter



www.asfaleia.ca

3270 Windsor Park Crescent
REGINA, SK S4V 3B2
Canada
Tel: (306) 533-2389
Email: asfaleia@sasktel.net

September 10, 2014

Association of Chief Boiler Inspectors (ACI)
2022 – 2nd Avenue
Regina, SK S4R 1K3

Attn: Chris Selinger – Chair

**RE: Capture of Information for ACI Members on Potential Incidents and Near Misses
Involving Pressure Equipment Operating within Canada**

During the last several meetings of the Association of Chief Boiler Inspectors (ACI), ASFALEIA Inspection & Management Services Ltd (ASFALEIA Ltd) had the opportunity to witness the sharing of information between ACI members on near misses and potential incidents related to the operation of pressure equipment within Canada.

As an organization with a focus on providing professional services within the fields of public safety and pressure equipment safety, ASFALEIA Ltd found this type of information sharing between Chief Inspectors to be paramount in the continued enhancement of pressure equipment safety in Canada.

ASFALEIA Ltd would like to express a personal observation on the benefits of taking these informal information exchanges one step further. By capturing available data on these near misses and potential incidents (in the form of available images and/or explanatory narratives), information currently being shared verbally between ACI members can be archived for future reference by both existing ACI members and their successors.

Due to the sensitive nature of the events (and those either directly or indirectly involved), consideration towards confidentiality in the gathering and sharing of this type of information is paramount. With this in mind, ASFALEIA Ltd would like to volunteer the services of Brian Krasiun (honorary ACI member) to initiate this project by gathering, indexing, and publishing these experiences for confidential use by ACI members within an active file. This project would be developed and undertaken in strict confidence, including agreements with any formal disclosure documents that ACI members may feel necessary. This initial service is being offered free of charge to ACI for the first two years.

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Chris Selinger
ACI

Page 2

September 10, 2014

ASFALEIA Ltd further envisions this progressive file being distributed, reported, and/or discussed by ACI members during the closed door portion of their annual meeting – thus avoiding the potential of any reported incident details becoming public. Any comments made during this activity may be further captured “anonymously” for inclusion within the project file.

Access to the project file by ACI members may also be performed through distribution of a password-protected USB flash drive at the annual meetings.

Please do not hesitate to contact me directly should you wish to discuss this matter further.

Sincerely,



Brian Krasni, P. Eng.

Association of Chief Inspectors

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Appendix I - Member Updates and Accident Reports Saskatchewan

2015 ACI Meeting Jurisdiction Report

Saskatchewan - TSASK

- 1) Regulatory Changes (recent or future direction)
 - No changes
- 2) Program Changes (Management, Resources, Scope, etc)
 - Traction Engines
 - Complete program review
 - Graduated licences
 - Written and practical exam – practical every 6 years
 - Welded repairs clarified
 - Operating pressure limit restricted to 100 psi
 - Allowing owners to follow the NBIC Part 2 if they want to exceed 100 psi
 - Power Engineering
 - Increase in the number of fireman's exams
 - Revised syllabus, course and exams to provide more information to candidates
- 3) Major Activities
 - Saskatchewan Integrity Association (SIA)
 - Opportunity to work with industry
 - Work is being shared between TSASK and the SIA
 - Currently working on the development of an incident reporting procedure
 - Provincial Auditor
 - Inspection Services audit
 - Few items that require improvements
 - Moving to a risk based inspection matrix
- 4) Incidents
 - Fired process heater – furnace explosion
 - Refinery explosion – report on TSASK website (www.tsask.ca). Refinery and TSASK are considering developing a presentation on the lessons learned. Discussed the "3 bend rule" for pipe survey to check for freezing. Design out deadlegs whenever possible.

Association of Chief Inspectors

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Manitoba

Association of Chief Inspectors – ACI Jurisdictional Report
--

Meeting Location and Date: Banff, AB. August 17/18, 2015

Jurisdiction: MANITOBA

ITEMS FOR INFORMATION

Legislative, Regulatory, Policy Updates and Changes: (proposed or approved)
--

Bill 69 – The Technical Safety Act brings together 6 separate Acts into one Safety legislation. It has past the final reading and has received Royal Assent. Its proclamation has been deferred until supporting regulations for each technical area have been developed.

Next steps are to update the 6 associated regulations. Consultation with industry and stakeholders is currently underway.

1. The Amusements (Rides) Act (A70) & Regulation
2. The Electricians Licence Act (E60) & Regulation
3. The Gas and Oil Burner Act (G30) & Regulation
4. The Power Engineers Act (P95) & Regulation
5. The Steam and Pressure Plants Act (S210) & Regulation

Program/Organizational Changes:
--

Inspection and Technical Services introduced a new Engineering Unit in fall 2014. Current focus is on Variance and Field Special Acceptance of Gas and Oil Burning equipment. This group has developed several policies and procedures related to those topics and are currently working with industry to move forward.

ITSM has been without a Chief Inspector since Late Fall 2014. Our initial competition did not yield a successful candidate. The position has been reposted and we are hopeful to find a successful candidate. Note: Currently, in Manitoba the Chief Inspector is at a Program Manager level in the organizational structure.

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--

Other Projects, Initiatives or Items of Interest:
--

Modernization of the Safety Act and regulation reviews are the priorities at this time.

Significant Incidents / Enforcement Issues:
--

Manitoba had 7 same incidents in the past 12 months involving heating boilers. Minor explosions powerful enough to cause the certified venting to come apart were experienced. The cause of these minor events was related to delayed ignition. Preliminary investigations revealed that the integrated ignition module was not always powerful enough to overcome the normal resistance in the igniter. Once the igniter eventually fires, the minor explosion happens due to the build up of gases. No injuries were noted in any of the events.

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Ontario

2015 ACI Meeting Ontario Jurisdiction Report

- 1) **Regulatory Changes (recent or future directions)**
 - a. Undergoing parallel regulation reviews of both the BPV and OE regulations
 - i. OE Regulation 219/01
 1. Full rewrite – current reg includes all technical details within Reg
 2. Break down current regulation into Reg + Code Adoption Document
 3. Looking at implementing Standardized Plant Registration (immediate or retro-fit)
 4. Ministry commissioned jurisdiction scan by contractor (Deloitte) – Start September
 5. Ministry commissioned Stakeholder Round-Table next
 - ii. BPV Regulation 220/01
 1. Partial rewrite – clarify insurer role in in-service (periodic) inspections
 2. Increased oversight of Insurer activities in Ontario
 3. Ministry commissioned Stakeholder Round-Table scheduled for Sep-Oct start
 - iii. Refreshing all external references in support of SCC initiative
- 2) **Program Changes (Management, Fees, Resources, Scope, etc.)**
 - a. Ontario long-time OE Chief Officer retired, OE Chief Officer role now assigned to Stat Director
 - b. 6 Staff vacancies that need to be filled. Needing to create some new positions related to the increase in nuclear activities
 - c. BPV Fees increased 3% in the third year of a 3-year fee increase schedule of 3%/year.
 - d. Fees frozen for next 2 years.
- 3) **Major Activities (Current or future)**
 - a. Major project underway to replace TSSA enterprise system (Oracle) with a “best of breed” approach.
 - b. HR & Training system is first phase. Contract awarded, roll out scheduled for Sep 2015
 - c. Ops and Finance next phase, process mapping in progress. Planned roll out late 2016, early 2017
- 4) **Incidents**

Just over 12 incidents. Two of significance

 - a. Jan 2015 – Ammonia Leak – maintainer sent to hospital, then released, skating rink evacuated – A “qualified individual” was topping up oil on an ammonia compressor. The oil fill line had a T-junction with plug that the maintainer thought was a valve. Having difficulty getting oil to flow, he kept opening the “valve” until the plug blew out and released oil, then ammonia into the space. TSSA has added a check list item for such refrigeration plants to ensure any unnecessary “T” junctions are removed.
 - b. Jul 2015 – Ammonia Leak – 1 fatality (first in OE in 17 years) – Refrigeration Plant had a contractor take oil samples of ammonia system, a routine process with their regular contractor. For an unknown reason, the contractor tried to take an additional sample from what turned out to be a liquid ammonia reservoir and was subsequently drenched in liquid ammonia. Local copper piping was also adversely affected, causing further contamination. Accident is currently under investigation by the Ministry of Labour.

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Prince Edward Island

Prince Edward Island Jurisdictional report 2015

- 1) The Power engineer regulations are under a major re-write. We plan to incorporate the part of the risk based model for plant staffing that is currently under development. Primarily the new clarification for what a Power Engineer can operate and be in charge off. Also an expanded guarded plant set of rules that a similar to New Brunswick.
- 2) The Boiler and Pressure Vessel regulations are also being updated, but this update is considered minor (code being updated, section being eliminated that are no longer relative).
- 3) PEI should be an ASME AIA by September and the Chief Inspector's responsibilities now include all oil tanks (above and below 2500 litres).
- 4) One major propane tank fire caused by excessive snow accumulation. Excessive snow accumulation also the cause for a number of propane exhausts and air intakes to be blocked that lead to CO issues in a number of facilities.
- 5) New tracking system based on tax number. All information related to a tax number including if there is a boiler installed, Power Engineer on site, etc will be contained and accessed through the internet.

Newfoundland & Labrador

Province of Newfoundland and Labrador Jurisdiction Report

2015 ACI Meeting

Banff, AB

- 1) Regulatory Changes (recent or future directions)

Amendments to plant supervision regulations based upon ACI/SOPEEC Plant Supervision Recommendations Report will be considered when the report is finalized.

- 2) Program Changes (Management, Fees, Resources, Scope, etc)

None to report at this time.

- 3) Major Activities (Current or future)

Recruitment efforts have resulted in a full compliment of Boiler Inspectors.

- 4) Incidents

September, 2014 – Flashback occurred when an operator was lighting a burner on a process heater resulting in burns to the operator's face and neck.

April, 2015 – An operating power engineer received severe burns from a release of steam while blowing down a utility boiler.

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Northwest Territories

2015 ACI Meeting NWT Jurisdiction Report

1) Regulatory Changes (recent or future directions)

N.W.T had no changes

2) Program Changes (Management, Fees, Resources, Scope, etc)

As of April 1st 2015, we had a fee increase of 4%

3) Major Activities (Current or future)

We have no major activities ongoing or in the near future

4) Incidents

On July 25/2015, I received of call that a boiler explosion had occurred in a newly constructed Bldg. that caused serious damage to the bldg. Myself and my regional inspector completed an investigation and at that time it was determined that the cause of the explosion was a CO₂ fire extinguisher that exploded not a boiler.

Matthias Mailman
Chief Boiler Inspector
Electrical/Mechanical Safety
Asset Management Division
Tel: 867-767-9043 ext 32036
Fax: 867-873-0117
<http://www.pws.gov.nt.ca/>



Safety First! It's how we live.

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Nunavut

2015 ACI Meeting Jurisdiction Report

Nunavut

1) Regulatory Changes (recent or future directions)

Acts and Regulations are being updated. Consultants are working on it. The changes will be complete by the end of 2016 or in the first quarter of 2017.

2) Program Changes (Management, Fees, Resources, Scope, etc)

A few departmental changes are in progress. New Safety Services department with a new Director likely hired for that area

3) Major Activities (Current or future)

A new Boiler Inspector is hired for Kitikmeot Region (Cambridge Bay) which is one of the three regions of Nunavut.

4) Incidents

No incident took place due to the Boilers or PV; therefore, nothing to report.

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CNSC

2015 ACI Meeting CNSC Jurisdiction Report

Regulatory Changes (recent or future directions)

Regulatory Approach in Canada for Long Term Operation (LTO) from Integrated Safety Review (ISR) (RD-360) to Periodic Safety Review (PSR) (REGDOC-2.3.3)

- 2015: Regulatory document REGDOC-2.3.3 "Periodic Safety Reviews" supersedes RD-360 "Life Extension of NPPs"
- ISR is a one-time application of the PSR, performed at the end of the "design" life of an NPP, forward looking for 30 years
- PSR is performed every 10 years (currently 5 years), in support of licence renewal and continued safe operation, throughout the lifetime of an NPP.

Program Changes (Management, Fees, Resources, Scope, etc)

The CNSC's Strategic Outcome (SO) and Program Alignment Architecture (PAA) have been updated. The changes better reflect how programs, resources and management practices are aligned with the results to be achieved on behalf of Canadians.

Major Activities (Current or future)

Nuclear Power Plants – Status

Bruce – On May 27, 2015, the Commission renewed the operating licences issued to Bruce Power as a single licence for both Bruce A and B, valid from June 1, 2015 until May 31, 2020.

Darlington – The two-part public hearing for the Darlington licence renewal is scheduled for August and November 2015.
Refurbishment scheduled for 2016
New build project postponed

Pickering - continues with planning and implementing measures to ensure safe operation of Pickering to the end of commercial operation by 2020.

Point Lepreau - Returned to service in 2012. On December 16, 2014, the CNSC Executive Vice-President consented to remove the Point Lepreau continued operation hold point, the last one on the Point Lepreau operating licence.

Gentilly-2 - Shutdown in 2012, transitioning toward safe storage
The licence expires in 2016 and have begun the preparatory work and activities required for the renewal of the Gentilly-2 licence.

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Incidents / Accidents

There were no serious process failures at the NPPs
No member of the public received a radiation dose that exceeded the regulatory limit
No worker at any NPP received a radiation dose that exceeded the regulatory limits
The frequency and severity of non-radiological injuries to workers were minimal
No radiological releases to the environment from the stations exceeded the regulatory limits
Licensees complied with licence conditions concerning Canada's international obligations
No NPP events, above level 0 on the International Nuclear and Radiological Event Scale (INES), were reported to the International Atomic Energy Agency (IAEA)

National Energy Board

2015 ACI Meeting, Banff AB

The National Energy Board (NEB) Jurisdiction Report

1) Regulatory Changes (recent or future directions)

There have been no changes, or any proposed, in NEB's regulations in the period 01 Sep. 2014 – 15 Aug. 2015.

2) Compliance and Enforcement

The National Energy Board is committed to providing information on the safety of the pipelines and facilities it regulates, including information on its compliance and enforcement actions.

NEB enforces regulatory requirements in order to obtain compliance, deter future, and prevent harm by using the most appropriate tool or tools available. In 2011, the NEB began proactively posting information on its compliance and enforcement activities with the goal of providing all relevant information related to its compliance and enforcement actions, in a manner that is clear and accessible.

In the period 01 Sep. 2014 – 15 Aug. 2015, the NEB issued:

Inspection Officer Orders: 3
([Landowner](#), [Spectra Ft Nelson](#), [Spectra Kobes Compressor Station](#))

Board Letters & Orders: 4
([Enbridge Hardisty](#), [Enbridge Line 9B](#), [NGTL](#), [Spectra](#))

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Investigation Reports:	0
<u>Audit Reports:</u>	6
<u>Enbridge's Third Party Crossings Program, Integrity Management Program, Emergency Management Program, Safety Management Program, Environmental Protection Program, and Public Awareness Program).</u>	
<u>Administrative Monetary Penalties (w/o Review Requested):</u>	6
<u>(DR Four Beat Energy Corporation, Lone Pine Resources, Westcoast Dawson Creek, Enbridge Edmonton to Hardisty, Plains Midstream, Westcoast Pine River.</u>	

Details can be obtained by clicking on the above links.

3) Major Applications and Projects

The following are proposed projects for which the proponent has only filed a Project Description with the NEB. This initiates certain pre-Application NEB activities, but it should also be noted that this is distinct from and does not constitute an Application under the National Energy Board Act. Once the formal application has been filed with the NEB, the project folder will then be moved to one of the appropriate headings found below.

- a.) [Imperial Oil Resources Ventures Limited - Same Season Relief Well Technical Proceeding](#)
- b.) [ITC Lake Erie Connector International Power Line Project](#)
- c.) [Enbridge Pipelines Inc. - Line 3 Replacement Program](#)
- d.) [NOVA Gas Transmission Ltd. - Merrick Mainline Project](#)
- e.) [NOVA Gas Transmission Ltd. - Towerbirch Expansion Project](#)

Following major Facilities Applications (section 52 and section 58) are before the Board:

- [Enbridge Pipelines Inc. - Line 9B Reversal and Line 9 Capacity Expansion Project \(OH-002-2013\)](#)
- [Eastern Mainline Project](#)
- [Energy East Project](#)
- [Northern Gateway Pipelines Limited Partnership - Enbridge Northern Gateway Project](#)
- [2017 NGTL System Expansion Project](#)
- [NOVA Gas Transmission Ltd. - North Montney Project](#)
- [NOVA Gas Transmission Ltd. - Wolverine River Lateral Loop \(Carmon Creek Section\) Project](#)
- [Trans Mountain Pipeline ULC - Trans Mountain Expansion](#)
- [TransCanada King's North Connection Pipeline Project \(GHW-001-2014\)](#)

4) Speeches and Presentations:

Following major speeches and presentations were delivered in the period 01 Sep. 2014 and 15 Aug. 2015:

- 2014-09-29
[International Pipeline Conference & Exposition \(IPC\) 2014 - Peter Watson](#)
- 2014-11-21
[In the Eye of the Storm - Canadian Energy Summit 2014 - Peter Watson](#)
- 2014-11-25
[In the Eye of the Storm - Chamber of Commerce, Saint John, New Brunswick - Peter Watson](#)

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- **2015-02-06**
[Navigating the Storm: Safety, Engagement and Leadership at the NEB - Alberta Chamber of Resources, Edmonton, Alberta - Peter Watson](#)
- **2015-03-06**
[Regulating in the Eye of the Storm - University of Ottawa - Positive Energy Conference - Peter Watson](#)
- **2015-03-11**
[The NEB's Full-Life Cycle Regulatory Process for the Arctic - 15th Annual Arctic Oil & Gas Symposium - Ron Wallace](#)
- **2015-04-20**
[Roles and Challenges of the Federal Regulator - Peter Watson](#)
- **2015-05-05**
[The Way Forward: Safety Culture - Chair and CEO Peter Watson - Speaking Notes - Enform Executive Summit](#)
- **2015-05-08**
[Engaging Canadians on Emergency Response - Chair and CEO Peter Watson - Vancouver Board of Trade](#)
- **2015-06-05**
[Introduction for the Safety Forum - Chair and CEO Peter Watson](#)
- **2015-06-19**
[Leading Regulatory Excellence - Chair and CEO Peter Watson - Community of Federal Regulators - Regulatory Excellence Awards](#)

5) Safety and Environmental Performance Dashboard - 2009 - June 2014

The safety of Canadians and protection of the environment in the construction, operation and abandonment of pipeline facilities regulated by the NEB are the Board's top priorities, and have been a part of our mandate since 1959. We hold those we regulate accountable so that the safety of Canadians and the environment is protected.

In 2013, the NEB regulated approximately 73,000 kilometers of interprovincial and international pipelines. [See a map of the NEB's regulated pipelines](#). The safety and environmental performance data and information that follows relates to the NEB's regulated pipelines.

[Pipeline Incidents:](#)

Please click on the above link, and scroll down to "Dashboard" for an analysis of events and incidents.

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Under the [National Energy Board Onshore Pipeline Regulations \(OPR\)](#), companies must immediately notify the National Energy Board (NEB) of any incident that relates to the construction, operation or abandonment of a pipeline.

[See a map of reportable OPR incidents \(2008 - present\).](#)

Incident means an occurrence that results in:

- the death of or serious injury to a person;
- a significant adverse effect on the environment (referred to below as significant adverse effects);
- an unintended fire or explosion;
- an unintended or uncontained release of low vapour pressure hydrocarbons (referred to below as Liquid releases) in excess of 1.5 m³;
- an unintended or uncontrolled release of gas or high vapour pressure hydrocarbons (referred to below as Gas releases); and,
- the operation of a pipeline beyond its design limits (OBDL).

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Appendix J - CSA B51 Technical Committee Agenda

File: S507 (B51 Boiler, pressure vessel, and pressure piping code)
August 2015

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Agenda for the Technical Committee on Boiler, pressure vessel, and pressure piping code CSA B51

Meeting:

Thursday August 20, 2015 at 9:00AM to 5:00PM (MDT)

Rimrock Resort Hotel, 300 Mountain Avenue

Banff, AB

www.rimrockresort.com

Item #	Description	Lead
A67.1	Welcome and call to order	Kim Greenwood
A67.2	Housekeeping and facility procedures	Oreste Simonetta
A67.3	Meeting objectives	Kim Greenwood
A67.4	Introductions of Members	Kim Greenwood
A67.5	Acceptance of agenda	Kim Greenwood
A67.6	Approval of minutes from the August 2014 meeting Correction to item M66.12.4 - Alberta references CSA B51-14 edition (M Poehlmann)	Kim Greenwood
A67.7	Review of action items from the August 2014 meeting	Kim Greenwood
A67.8	Membership review (changes from August 2014) Voting Member application requirements	Oreste Simonetta Kim Greenwood
A67.9	Review of the updated CSA B51 Terms of Reference (see attachment 1a (new) and attachment 1b (original))	Oreste Simonetta Kim Greenwood
A67.10	Reaffirmation Ballot (recorded vote at the meeting) of CSA/B51 endorsement of the National Board Inspection Code (current edition is NB23-2015) – (referred to in the preface of B51)	Oreste Simonetta Kim Greenwood
A67.11	Subcommittee and liaison updates and reports	Kim Greenwood
A67.11.1	Cathy Turylo Subcommittee on Boilers and Related Components (Clause 6)	
A67.11.2	Kim Greenwood Subcommittee on Clause 4,5,8,11, and Annex D, of Part 1 (see attachment 2)	
A67.11.3	Kim Greenwood Subcommittee on Clause 12 and Annex H of Part 1 (License Plate) (see attachments 3a and 3b)	
A67.11.4	Susana Katz Subcommittee on Clause 13 of Part 1	
A67.11.5	Susana Katz Subcommittee on Parts 2 and 3	

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File: S507 (B51 Boiler, pressure vessel, and pressure piping code)

August 2015

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Item #	Description	Lead
A67.11.6	Djordje Srnic Subcommittee on Pressure Vessels (Clause 7) (see attachment 5)	
A67.11.7	Kim Greenwood Editorial Subcommittee	
A67.11.8	Myriam St. Georges French Translation Subcommittee	
A67.11.9	Ken Lau Liaison with ISO/TC 11, Boiler and Pressure Vessels	
A67.11.10	Ken Lau Liaison with ASME	
A67.11.11	Chris Selinger Liaison with ACI	
A67.11.12	Mike Poehlmann Liaison with CSA Z662	
A67.12	CSA B51 19 th edition publication date/schedule	Kim Greenwood
A67.13	Incident reports from each jurisdiction	Kim Greenwood
A67.14	Update of the adoption of CSA B51-14 from each jurisdiction (see attachment 4)	Kim Greenwood
A67.15	Communities of Interest – demonstration (if time allows)	Oreste Simonetta
A67.16	New Business	Kim Greenwood
A67.17	Next meeting date	Kim Greenwood
A67.18	Adjournment	Kim Greenwood

Teleconference and WebEx are not available for this meeting

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Appendix K - CSA B52 Agenda

File No. S508 (B52) Mechanical refrigeration code
August 2015

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Agenda for the Technical Committee on Mechanical refrigeration code

CSA B52

Meeting:

Wednesday August 19, 2014 at 9:00AM to 5:00PM (MDT)

Rimrock Resort Hotel, 300 Mountain Avenue

Banff, AB

www.rimrockresort.com

Item #	Description	Lead
A54.1	Welcome and call to order	Cathy Turylo
A54.2	Housekeeping / Facility Safety Procedures	Oreste Simonetta
A54.3	Introductions of members	All Members
A54.4	Meeting objectives	Cathy Turylo
A54.5	Approval of agenda	Cathy Turylo
A54.6	Approval of minutes from last meeting – June 2014	Cathy Turylo
A54.7	Membership review	Oreste Simonetta
A54.8	Draft New Edition of the Handbook Review of Letter Ballot (#1589) results, comments, and next steps	Cathy Turylo
A54.9	Working Group Summary	Cathy Turylo
A54.9.1	WG 5: C22.2 Standards	John Scott
A54.9.2	WG 6: Annex B (proposal for Clause 6.10) (see attachments 1a, 1b, and 1c)	Dave Malinauskas/ Cathy Turylo
A54.9.3	WG 8: Clause 5.7.1 and 5.7.2.1	Frank Sullivan
A54.9.4	WG 9: Clause 4.2	Myriam St-Georges
A54.10	Liaison reports and update	Cathy Turylo
A54.10.1	ISO TC 86	John Scott
A54.10.2	ACI report	Chris Selinger
A54.10.3	ASHRAE and UL Flammability Subcommittee Liaison	John Scott
A54.11	Incident Reports from each jurisdiction	Cathy Turylo
A54.12	Status of CFC refrigerants phase-out in each jurisdiction (see attachment 2)	Paul Sterescu
A54.13	Communities of Interest – demonstration	Oreste Simonetta
A54.14	Request for interpretations or information procedure	Cathy Turylo
A54.15	New business	Cathy Turylo
A54.16	Next meeting date	Cathy Turylo
A54.17	Adjourn	Cathy Turylo

Teleconference and WebEx are not available for this meeting

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Appendix L - 2015 SOPEEC Budget



APEGA June 2014 Employer Salary Survey

Annual Salaries by Level of Responsibility

Table 24 Level D Service - Not for profit

Mean is \$ 121,400

Base amount rounded down to **\$ 121,400** as per previous agreement.

Table 24 Engineers Cash Compensation Summary Table (page 51)						
Engineers Level						
Level	# of Firms	# of Cases	Average	D25	D50	D75
A-	0	0	---	---	---	---
A	2	38	---	---	---	---
B	2	73	---	---	---	---
C	2	168	---	---	---	---
D	3	64	121.4	---	---	---
E	3	141	146.9	---	---	---
F	1	7	---	---	---	---
F+	1	1	---	---	---	---

Source: <http://www.apega.ca/pdf/SalarySurvey/VPS2014.pdf>

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Proposed 2015 – 2016 Budget

*Table A – Applying 1.31 FTE to the **contribution** where 0.21 is the adjustment rate for 2015 as approved at the 2012 ACI Meeting (to cover part of the extra cost), and 0.1 FTE is assuming the Federal Government is **not paying** their portion of what was previously committed \$7,500.

The minimum payment remains at \$1,000.00 if the total number of examination attempted is less than 10⁽²⁾. If the total number of examination attempted is more than 10 but the calculated contribution is still less than \$1,000.00, the minimum payment is \$1,100.00⁽³⁾.

PROPOSED BUDGET FOR 2015 - 2016

JURISDICTION	EXAMS	ACTUAL \$	CALCULATED CONTRIBUTION	CONTRIBUTION % FOR CURRENT YEAR	CONTRIBUTION % FOR PREVIOUS YEAR
AB	10359	\$60,879.25	\$79,752	49%	46%
BC	1755	\$10,314.03	\$13,511	8%	9%
MB	768	\$4,513.49	\$5,913	4%	4%
NB	525	\$3,085.39	\$4,042	2%	4%
NF	385	\$2,262.62	\$2,964	2%	1%
NWT	0	\$0.00	\$1,000	1%	1%
NS	665	\$3,908.17	\$5,120	3%	4%
NU	0	\$0.00	\$1,000	1%	1%
ON	3474	\$20,416.50	\$26,746	16%	18%
PEI	82	\$481.91	\$1,200	1%	1%
QC	0	\$0.00	\$1,000	1%	1%
SK	2644	\$15,538.64	\$20,356	12%	12%
YK	0	\$0.00	\$1,000	1%	1%
TOTALS	20657	\$121,400.00	\$163,603	100%	

Formula used for calculations

- (1) $\frac{\text{\# of exams}}{\text{Total examinations}} \times \text{Base } \$121,400 \times 1.31 \text{ (for current year)} = \$\text{Calculated Contribution}$
- (2) For jurisdictions with exams **less than 10**
If Calculated Cost $\leq$ \$1,000 then cost is \$1,000
- (3) For jurisdictions with exams **greater than 10**
If calculated Cost $\leq$ \$1,000 then cost is \$1,200

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SOPEEC

STANDARDIZATION OF POWER ENGINEER EXAMINATIONS COMMITTEE

*Budget of \$121,400 based on the Level D Mean Salary from the 2013 APEGA Salary Survey Table 24 Service - Not for profit

Budget Year	Cost / Exam Attempted	Average Cost per Exam
2015 - 2016	163,603 / 20657 (based on 2014 data)	\$7.92
2014 - 2015	128,800 / 16923 (based on 2013 data)	\$7.61
2013 - 2014	136,000 / 15191 (based on 2012 data)	\$8.95
2012 - 2013	123,500 / 14406 (based on 2011 data)	\$8.71
2011 - 2012	103,500/14049 (based on 2010 data)	\$7.37
2010 - 2011	99,100/115386 (based on 2009 – 2010 data)	\$6.44
2009 – 2010	96,300/13592 (based on 2008 – 2009 data)	\$7.08
2008 – 2009	91,000/11400 (Based on 2007 – 2008 data)	\$7.98
2007 – 2008	89,000/10994 (based on 2006 – 2007 data)	\$8.10
2006 – 2007	84300/10765 (based on 2005 – 2006 data)	\$7.83
2005 – 2006	83500/10093 (based on 2004 – 2005 data)	\$8.27
2004 – 2005	79000/10093 (based on 2003 – 2004 data)	\$7.83
2003 – 2004	76000/10208 (based on 2002 – 2003 data)	\$7.45
2002 – 2003	72500/9733 (based on 2001 – 2002 data)	\$7.45
2001 – 2002	65000/9331 (based on 2000 – 2001 data)	\$6.97

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Appendix M - Draft Letter - ACI to NPSAC Uniform Plant Ratings

August 11, 2015

National Public Safety Advisory Committee (NPSAC)
Suite 1000, 10665 Jasper Ave
EDMONTON AB T5J 3S9

via email

Attn: Brian Alford, Chair, NPSAC
Trudy Rotgans, Vice-Chair, NPSAC
Douglas Montgomery, NPSAC Secretariat

Re: Boiler and Refrigeration Plant Uniform Ratings

The Association of Chief Boiler and Pressure Vessel Inspectors (ACI) consists of federal/provincial/territorial representatives responsible for the administration and enforcement of boiler and pressure vessel (BPV) and operating engineer (OE) laws. We represent the highest technical authorities for BPV safety. The ACI promotes uniform, coordinated and consistent administration and enforcement related to the BPV and OE legislation.

At the 2010 Annual ACI Meetings, a "Terms of Reference for ACI Members on Power Engineer Certification" from NPSAC was presented to all ACI membership. Two actions were requested of the ACI for consensus decision to be brought to NPSAC as recommendations for consideration.

ACTION I – Power Rating of Boilers and Maximum Plant Power Rating

Jurisdictions measure the power rating of boilers differently. There are also discrepancies regarding the determination of the maximum (total) plant power rating based on the configuration of boilers.

NPSAC requests that ACI develop, by consensus, a scientifically based formula for the power rating of boilers.

NPSAC requests that ACI develop, by consensus, a scientifically based formula for the determination of the maximum plant power rating based on the formula developed for the boiler rating.

ACTION II – Plant Classification and Power Engineer Certificates of Qualification

The variation in maximum boiler plant power rating between jurisdictions affects the classification of the plant and the certification requirements for the associated Power Engineers.

NPSAC requests that ACI develop, by consensus, a common classification system for plants based on maximum plant power ratings.

NPSAC requests that ACI review and provide recommendations, to the extent possible, on the level of certification required for Chief Power Engineer based on the plant classification.

Association of Chief Inspectors

52nd Annual Meeting - Banff, AB

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The recommendation is to include the level of certification required for the shift power engineer and the assistant shift power engineer based on the plant classification.

The Standardization of Power Engineer Examination Committee (SOPEEC) is a committee delegated by and responsible to the ACI to develop a uniform examination system and improve mobility of power engineers between jurisdictions. The ACI tasked SOPEEC to provide the review and recommendations for the two actions given ACI by NPSAC.

The requested timelines to achieve consensus and bring forward the recommendations have not been achieved due to the many technical variations and considerations with the existing models being used and the direction to reach consensus. SOPEEC further deliberated and provided recommendations for refrigeration plants rating and classification.

<provide discussion on recommendations coming out of the 2015 ACI Meeting>

To achieve consensus, the recommendations presented focus on technical elements and have not considered the political impact of reductions or increases in staffing requirements for any affected provinces. The ACI recognizes there will be an impact to power engineers and companies employing power engineers in all jurisdictions and will provide for a significant impact in some jurisdictions. The ACI assumes NPSAC will review the impact at a public policy level and looks forward to future strategic direction from NPSAC with regards to this topic.

Sincerely

Chris Selinger, P.Eng.
Chief Inspector
Chair, ACI

cc: Tony Scholl, BC Safety Authority, Vice-Chair, ACI
ACI members distribution list

Att: Terms of Reference for ACI Members on Power Engineering Certification