

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

A 50.1	Opening Remarks	10
50.1.1	Chair Opening Remarks – Denis Eastman on behalf of Peter Dodge	10
50.1.2	Welcome by Hosting Jurisdiction – Peter Wong, Vice-President Operations, TSSA	10
50.1.3	Appointment of Recording Secretary – Parkson Yeung, ABSA; Cathy Turylo, TSSA	10
A 50.2	Membership Review	10
50.2.1	New Member for Ontario – Mike Adams	10
50.2.2	New Member for British Columbia – Tony Scholl	10
A 50.3	Approval of the 50th Annual ACI Meeting Agenda.....	10
A 50.4	Election of Chair and Vice Chair.....	11
A 50.5	Adoption of the 49th Annual ACI Meeting Minutes	11
	Motion 1: Adopt minutes as presented made by K. Lau / T. Scholl.....	11
	Carried (unanimous)	11
A 50.6	Business Arising from the Minutes of the 49th Annual ACI Meeting:	11
50.6.1	(A 49.4.1 Action #1) HRSDC Membership Follow-up.....	11
	Action Item 1: Chair (S. Townsend) to send letter – next year’s session in Ottawa can be opportunity for one of their representatives to participate at least as an observer. Letter to be addressed to the appropriate level and Provincial Territorial Advisory Committee to the Standards Council of Canada needs to be copied on the correspondence. K. Lau to assist Chair in drafting letter for correct contacts.....	11
50.6.2	(A49.5.1 Action #2) SOPEEC development of risk based plant rating system.....	11
50.6.3	(A49.6.1 Action #3) Canadian Boiler Society request for central registration of fittings	12
	Action Item 2: Since CSA corporate legal is prepared to review a Central Registration system proposal, ACI Chair will request NPSAC to consider to resend previous proposal to CSA for review.....	12
50.6.4	(A49.8.1) ACI Constitution / Review of Membership on Standing Committee.....	12
	Action Item 3: Reappointment by Chair of new ACI Constitution subcommittee – members to review the constitution from top to bottom: M. Kotb or A. Khassiss (RBQ), M. Adams (TSSA) – subcommittee Chair, K. Lau (ABSA), Y. Wang (CNSC).....	12
	Action Item 4: All members to provide Constitution comments to secretary by October 31st.....	12

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

	Action Item 5: New standing committee for the ACI Constitution to convene and review comments of Constitution prior to next meeting and as required thereafter.....	12
50.6.5	(A49.14.1 Action #4) Biomass and PED	13
50.6.6	(A49.15.1 Action #5) CNSC hosting of 2014 ACI meeting in Ottawa.....	13
A 50.7	Review of Correspondence Received	13
50.7.1	None received	13
A 50.8	Members Updates and Accident Reports (Responsibilities and Directions)	14
50.8.1	Jurisdictions (BC, AB, SK, MB, ON, QC, NB, NS, PE, NL, YT, NT, NU).....	14
50.8.2	National Board of Boiler and Pressure Vessel Inspectors (NBBI): D. Douin.....	22
50.8.3	Canadian Nuclear Safety Commission (CNSC) Y. Wang	22
50.8.4	Human Resources and Social Development Canada (HRSDC) ...	23
50.8.5	National Energy Board (NEB): S Ahmad.....	24
A 50.9.1	(Item A 49.8) ACI Constitution / Review of membership on Standing Committee / Jurisdictional comments.....	26
A 50.10	Committee / Task Force / Liaison Reports:.....	26
50.10.1	CSA Z662	26
50.10.2	ACI Technical Committee	27
50.10.3	NPSAC.....	27
A 50.11	New Business.....	28
50.11.1	Requalification of Faber Cylinder beyond 15 year life	28
	Action Item 6: Forward to working group for review and recommendations for ACI and/or CSA B51. Working group members: T. Scholl committed representative from BCSA, K. Lau committed representative from ABSA and A. Adeoti, TSASK. Also agreed to approach Powertech for input as well. C. Turylo (TSSA) to arrange material to be sent to participants and first teleconference.	28
50.11.2	Non-metallic “repairs” of piping systems using ASME PCC-2	29
	Action Item 7: Forwarded to ACI/TC for review and recommendations for ACI and/or CSA B51.	29
50.11.3	Initial Grade B Pressure Welder Changes in AB	29
	Action Item 8: all jurisdictions to confirm their position directly with K. Lau.....	30
50.11.4	2010 ACI agreement of CSA B51 Clause 4.3 Canadian Registration Number (CRN) Format.....	30

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Action Item 9: M. Adams to revisit with IT (TSSA) the numbering issue and report back to ACI if the original numbering system can be reinstituted with the 4 numerical digits.	30
50.11.5 New Bonding Requirements for ASME Section IX.....	30
Action 10: Forward to working group or ACI/TC for review and recommendations for ACI and/or CSA B51.....	30
50.11.6 Registration request (pending) for mechanical couplings in steam service (piping systems).....	31
A 50.12 Reports / Presentation of CSA B-51 Sub Committees:	31
50.12.1 CSA B51 Clause 6	31
50.12.2 CSA B51 Clause 7	33
50.12.3 CSA B51 Clause 4, 5, 6, and 11 DH	33
A 50.13 Review of CSA Committee Agenda:	34
50.13.1 CSA B-51 Agenda Review	34
50.13.2 CSA B-52 Agenda Review	34
A 50.14 Standardization of Power Engineer Examinations Committee (SOPEEC)	34
50.14.1 Chair's Report – Steven Townsend.....	34
Motion 2: to approve proposed SOPEEC budget based on Table A as presented by T. Scholl /B. Fierheller	34
Carried (unanimous).	34
Action Item 11: Request SOPEEC Chair to pursue HRSDC under AIT to provide an independent person/study to review and assess provincial certificates.....	35
Motion 3: that the ACI adopt the requirements for the acceptance of power engineering programs as presented in Appendix 1 by T. Scholl / M. Adams.....	35
Carried (unanimous)	35
Motion 4: to approve 3B1 exam format to multiple choice along with question bank development by B. Fierheller / M. Mailman	35
Carried (unanimous)	35
Motion 5: to approve SOPEEC budget starting 2014-2015 increase minimum to \$1500 (for 11-100 exams) and those with less than 10 exams stay at \$1000 by A. Khassiss / B. Fierheller.....	35
Carried (unanimous)	35
Motion 6: to approve increase to SOPEEC budget for initial development cost for multiple choice 3B1 exam development of 0.2 FTE per year for two years (two year development program) – 2014 to 2015 and 2015 to 2016 by T. Scholl / S. Ahmad.....	35
Carried (unanimous)	35
Motion 7: to approve 2nd class syllabus changes as presented in Appendix 1 attachments by D. Eastman / M. Adams	35
Carried (unanimous)	35

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Motion 8: to approve 3rd class syllabus changes as presented in Appendix 1 attachments by T. Scholl / M. Mailman	36
Carried (unanimous)	36
Motion 9: to approve 4th class syllabus changes as presented in Appendix 1 attachments by M. Mailman / D. Eastman.....	36
Carried (unanimous)	36
Motion 10: to approve 5th class syllabus changes as presented in Appendix 1 attachments by C. Selinger / T. Scholl	36
Carried (unanimous)	36
50.14.2 Coordinator's Report	36
A 50.15 Other Business.....	36
50.15.1 Pressurized Loading Arms between Railcars and Storage Tanks – Cathy Turylo.....	36
50.15.2 CSA B149.3 and ASME CSD-1 – Allan Hantelmann	37
50.15.3 Packaged Piping Systems on Skids – Aziz Khssassi.....	37
Action Item 12: All jurisdictions to provide A. Khssassi, RBQ with their response as to how package skid systems are handled.	37
A 50.16 Future Meetings – Dates / Location	37
A 50.17 Adjournment.....	38
Motion 11: Motion to adjourn B. Fierheller / K. Lau	38
Carried (unanimous)	38

[Index](#)

[Appendix 1 ACI Reference Documents](#)

[Appendix 2 CSA B51 Reference Documents](#)

[Appendix 3 CSA B52 Reference Documents](#)

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Attendance (12 voting members)

Tony Scholl
Ken Lau
Chris Selinger
Bruce Fierheller
Mike Adams (Host)
Aziz Khssassi
Dennis Eastman (Acting ACI Chair)
Eben Creaser (regrets)
Steven Townsend (SOPEEC Chair)
Don Ehler (regrets)
Mathias Mailman
Vacant

Dave Douin

Shah Ahmad

Yanpeng Wang

Representing

British Columbia / BCSA
Alberta / ABSA
Saskatchewan / TSASK
Manitoba
Ontario / TSSA
Quebec (Alt)
Newfoundland and Labrador
New Brunswick
Prince Edward Island
Nova Scotia (Alt)
Northwest Territories
Nunavut Territories
National Board of Boiler and
Pressure Vessel Inspector
National Energy Board (Alt)
Canadian Nuclear Safety
Commission

Associate members:

Cathy Turylo
Myriam St-Georges (regrets)

Ontario (Alt) / TSSA
Quebec (Alt)

Guests:

Joe Raso
Sorin Corlaci (in part)
Allan Hantelmann
Parkson Yeung (SOPEEC Coordinator)
Eli Szamosi
Ray Graves (in part)
Paul Sterescu
Jim Weiss
Reggie Gillies
Debbie Kontos
Sarah Jeffrey-Hampton
Robert Bryce
Caslav Dinic
Heather Fairfield
Kavita Ramchai
Keith Miller
Barbara Hambley
Brian Krasium

Ontario / TSSA
Ontario / TSSA
Alberta Municipal Affairs
Alberta / ABSA
CSA
Saskatoon Boilers
BI&I
Acuren
SaskPower
MCS (Ontario)
MCS (Ontario)
Heartland Software
TSSA
IHS & IPEIA
BI&I
Husky Energy
BI&I
ASFALEIA Inspection Mgmt
Services Ltd.
(honorary member to ACI)
RAE Engineering & Inspection

Izak Roux

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Adenike Adeoti
Amarjit Banwatt

TSASK
ANRIC

Regrets:

Peter Dodge
Madiha Kotb
Glenn Cameron
Djordje Srnicek

Nova Scotia
Quebec
National Energy Board
Alberta (Alt) / ABSA

Richard Allison
Paul Christensen

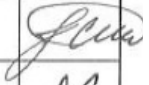
National Board of Boiler and
Pressure Vessel Inspector
Yukon Territories

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Sign in Sheet

ACI 50th Annual Meeting, August 19th to 20th, 2013
Toronto, Ontario

Date: Aug 19, 2013

Attendance	Representing	Member or Non-member	Full Time or Part Time	Initial
Allan Hantlemann	Alberta Municipal Affairs	Non-Member	Full	
Anthony Scholl	British Columbia / BCSA	Member	Full	
Aziz Khssassi	Quebec	Alt Member	Full	AK
Bruce Fierheller	Manitoba	Member	Full	BZ
Cathy Turylo	Ontario / TSSA	Alt Member	Full	
Chris Selinger	Saskatchewan / TSASK	Member	Full	CS
David Douin	National Board of Boiler and Pressure Vessel Inspectors (NBBI)	Member	Full	
Dennis Eastman (Acting ACI Chair)	Newfoundland and Labrador	Member	Full	DE
Djordje Srnic	Alberta / ABSA	Alt Member		
Don Ehler	Nova Scotia	Alt Member		
Eben Creaser	New Brunswick	Member		
Glenn Cameron	National Energy Board	Member		
Jim Weiss	Acuren	Non-Member	Full	
Joe Raso	Ontario / TSSA	Non-Member	Full	
Ken Lau	Alberta / ABSA	Member	Full	
Kim Greenwood	Praxair Canada Inc	Non-Member		
Madiha Kotb	Quebec	Member		
Matthias Mailman	Northwest Territory	Member	Full	
Mike Adams (Host)	Ontario / TSSA	Member	Full	
Myriam St-Georges	Quebec (Alt)	Non-Member		

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Attendance	Representing	Member or Non-member	Full Time or Part Time	Initial
Oreste Simonetta	CSA	Non-Member		
Parkson Yeung (SOPEEC Coordinator)	SOPEEC / ABSA	Non-Member	FT	RY
Paul Christensen	Yukon Territory	Member		
Paul Sterescu	BI&I	Non-Member	Full Time	JS
Peter Dodge	Nova Scotia	Member		
Ray Graves	Saskatoon Boiler MFG. CO. LTD.	Non-Member		
Richard Allison	National Board of Boiler and Pressure Vessel Inspectors (NBBI)	Non-Member		
Shah Ahmad	National Energy Board (NEB)	Alt Member	Full Time	SA
Sorin Corlaci	Ontario / TSSA	Non-Member		
Steven Townsend (SOPEEC Chair)	Prince Edward Island	Member	Full Time	S
Susana Katz	S. Katz and Associates	Non-Member		
Tom Slimmons	TransCanada Pipelines	Non-Member		
Vacant	Nunavut	Member		
Vacant	Human Resources and Social Development Canada (HRSDC)	Member		
Yanpeng Wang	Canadian Nuclear Safety Commission (CNRC)	Member	Full Time	YW
Robert Buje	Heartland Software	Non member		RB
Brian Krasin	Asfalco Inspection & Mgmt Services Ltd.	Non		
Isak Raux	RAE Eng & Inspection	Non member		
ELI SZAMOSI	ELI.SZAMOSI@CSAGroup.org CSA Group	Non member		E
Debbie Kontos	mcs ontario	Non-member		DK.
Sarah Jeffrey-Hampton	mcs - Ontario	Non member		ASJ
Adenike Adeoti	TSA SK, Saskatchewan	Non Member	Full	AA

**Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013**

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**Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013**

A 50.1 Opening Remarks

50.1.1 Chair Opening Remarks – Denis Eastman on behalf of Peter Dodge

50.1.2 Welcome by Hosting Jurisdiction – Peter Wong, Vice-President Operations, TSSA

50.1.3 Appointment of Recording Secretary – Parkson Yeung, ABSA; Cathy Turylo, TSSA

A 50.2 Membership Review

50.2.1 New Member for Ontario – Mike Adams

50.2.2 New Member for British Columbia – Tony Scholl

Two new members were confirmed.

Attachments:

[Tony Scholl appointment letter from BCSA \(D0439483\)](#)

[Mike Adams appointment letter from TSSA \(D0439641\)](#)

A 50.3 Approval of the 50th Annual ACI Meeting Agenda

Approved with new items under Other Business:

A 50.15.1 Pressurized Loading Arms between Railcars and Storage Tanks – Cathy Turylo

A 50.15.2 CSA B149.3 and ASME CSD-1 – Allan Hantelmann

A 50.15.3 Packaged Piping Systems on Skids – Aziz Khssassi

Attachments:

[50th ACI Meeting Agenda Toronto, ON 2013 \(D0430546\)](#)

[2013 ACI Meeting Agenda and Executive Summary \(D438480\)](#)

**Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013**

A 50.4 Election of Chair and Vice Chair

Both the Chair and the Vice Chair positions are vacant.

Steven Townsend accepted the nomination for the ACI Chair position.
Chris Selinger accepted the nominations for the ACI Vice-Chair position.

A 50.5 Adoption of the 49th Annual ACI Meeting Minutes

Draft 2012 ACI meeting minutes was sent out months before the meeting

Motion 1: Adopt minutes as presented made by K. Lau / T. Scholl

Carried (unanimous)

Attachments:

[2012 ACI 49th Meeting Minutes Charlottetown, PEI 2012 \(D0362406 version 2\)](#)

A 50.6 Business Arising from the Minutes of the 49th Annual ACI Meeting:

50.6.1 (A 49.4.1 Action #1) HRSDC Membership Follow-up

Peter Dodge (Chair) sent a letter to HRSDC (2011) requesting continuation of membership. No response since initial letter and no response to the letter sent out on August 14, 2012.

Action Item 1: Chair (S. Townsend) to send letter – next year's session in Ottawa can be opportunity for one of their representatives to participate at least as an observer. Letter to be addressed to the appropriate level and Provincial Territorial Advisory Committee to the Standards Council of Canada needs to be copied on the correspondence. K. Lau to assist Chair in drafting letter for correct contacts.

Attachments:

[2012 ACI Chair to HRSDC Acting Director membership letter \(D0439528\)](#)

50.6.2 (A49.5.1 Action #2) SOPEEC development of risk based plant rating system

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

S. Townsend presented the proposed risk based plant rating system model approved by SOPEEC members.

ACI members agreed to use the simplified formula #3 and #4 and formula #5 and #6 only to be used if formula #1 to #4 can not be applied.

S. Townsend will clean up the proposed model presentation and recommend the proposed model to NPSAC for their review.

Attachments:

[Risk based plant rating and plant classification system proposed model \(D432217\)](#)

50.6.3 (A49.6.1 Action #3) Canadian Boiler Society request for central registration of fittings

E. Szamosi provided the background information that a request has been made by letter from Canadian Boiler Society requesting ACI to continue the process of moving toward one central registration of fittings in the 90's and indicated that CSA could perform a legal review that central registration does not violate Federal laws if update information were sent for review.

Action Item 2: Since CSA corporate legal is prepared to review a Central Registration system proposal, ACI Chair will request NPSAC to consider to resend previous proposal to CSA for review.

50.6.4 (A49.8.1) ACI Constitution / Review of Membership on Standing Committee

K. Lau provided the background information and the status of this task.

Action Item 3: Reappointment by Chair of new ACI Constitution subcommittee – members to review the constitution from top to bottom: M. Kotb or A. Khassiss (RBQ), M. Adams (TSSA) – subcommittee Chair, K. Lau (ABSA), Y. Wang (CNSC).

Action Item 4: All members to provide Constitution comments to subcommittee Chair by October 31st.

Action Item 5: New standing committee for the ACI Constitution to convene and review comments of Constitution prior to next meeting and as required thereafter.

**Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013**

Attachments:

[Official ACI Constitution \(D53105\)](#)

[Unofficial bilingual ACI Constitution \(D53214\)](#)

[Suggested changes to the bilingual ACI Constitution \(D180891\)](#)

50.6.5 (A49.14.1 Action #4) Biomass and PED

On behalf of D. Ehler, C. Turylo reported that the ACI – TC work is in progress to perform a gap analyst of the difference between Pressure Equipment Directive (PED) and the ASME BPV Code for Biomass boilers that have to be addressed to achieve an equivalent level of safety.

50.6.6 (A49.15.1 Action #5) CNSC hosting of 2014 ACI meeting in Ottawa

Yes in Ottawa last week of August (August 25 to 28, 2014).

A 50.7 Review of Correspondence Received

50.7.1 None received

**Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013**

A 50.8 Members Updates and Accident Reports (Responsibilities and Directions)

50.8.1 Jurisdictions (BC, AB, SK, MB, ON, QC, NB, NS, PE, NL, YT, NT, NU)

Quebec: A. Khassiss

Regulatory changes:

- Changes to the Building Act needed for development of new Boilers and Pressure Vessels Regulation are in place.
- Working on new pressure vessels regulation.
- Quebec will be updating Stationary Enginemen Regulation in the near future. Interested in SOPEEC work.
- Did update Quebec's NQ3650 Boiler, pressure vessel and pressure piping installation code. New edition coming out before the end of the year. Requirements reflect ASME and NBIC installation requirements with some minor adaptations. The objective is to have a French document available for our local contractors.

Major activities:

- Nuclear power plant Gentilly-2 official closure announced by the government in September 2012 and the reactor closed on December 2012. RBQ continue to have oversight on Pressure retaining systems and all applicable operating procedures that will ensure the safe shut down and decommissioning of the Plant. Still servicing 2 ASME N stamp holders and other N285.0 certified manufacturers in the province.
- Had the AIA yearly program audit in June 2013.
- Many Carbon Dioxide refrigeration systems installed in the province. Will seek more guidance from B52 committee on the subject.
- Three inspectors + two engineers with the "IS commission" are working on their OJT (supervised inspection) hours for the "A commission".

Incidents / accidents:

- One boiler incident during maintenance shutdown mainly related to non-respect of lock-out / tag-out procedures.
- An Ammonia leak in a food industry factory related to corroded piping sections.

Manitoba: B. Fierheller

No major incidents;

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Reviewing 6 regulations to be combined into one Act – at committee level now;

Renewed ASME AIA status this year.

Northwest Territories: M. Mailman
Nothing major to report.

British Columbia: T. Scholl

- 1) Regulatory Changes
 - a. Review of Power Engineers and BPV regulation is underway for implementation in 2015
- 2) Program Changes
 - a. Management Changes
 - i. Ed Hurd retired in July, 2013 as Boiler Safety Manager
 - ii. Tony Scholl is acting Boiler Safety Manager
 - b. Fees
 - i. Current fees in effect through 2014
 - c. Resources
 - i. Two (2) boiler safety officer positions are vacant
 - d. Scope
 - i. BPV Regulations are being applied to LNG plants
- 3) Major Activities
 - a. New Information System being Implemented at BCSA over 2013 / 2014
 - b. Oil and Gas activity increasing in the Northeast part of BC
 - c. LNG activity increasing, five (5) new plants possible, 1st one in Kitimat, BC, to export LNG to China
- 4) Incidents
 - a. Total of thirty (30) minor incidents reported, including two (2) ammonia leaks
 - b. One (1) major incident involving a Black Liquor Recovery Boiler. No Injuries reported

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Alberta: K. Lau

Over 40 incidents investigated, all relatively minor and fortunately there were no injuries although in some cases, could result in more serious consequences. This was particularly the case when a small section of plant piping between two valves (for ease of discussion, they are labeled valves A and B below) was over-pressurized because of operator either due to a lack of proper procedure or procedure not being followed. The piping specification downstream of valve A was for far lower pressure than for the valve A and upstream and was subject to far higher pressure than originally designed when valve A was open with valve B unintentionally closed resulting in failure of equipment in that piping section. The incident was summarized in the ABSA newsletter.

Review of the incidents revealed, similar to past findings, the root causes involved generally inadequate maintenance/operating/ inspection procedures

The Power Engineers Regulation Amendment will soon be implemented providing alternative to power engineers with competent operators for plant operation supervision under specific circumstance/applications such as thermal liquid heating systems, thermal fluid boilers and remote process plants. A new operator certification system will be introduced for traction engines as well. Following the implementation of the regulation amendment, it is understood that the Power Engineers Regulation may be open to another round for further review and revision.

The regulation adopting codes and standard is under review for the adoption of the latest editions of codes and standards and an in-depth review of the ASME Section VIII-Div 2, 2013 edition is underway by the Technical Council because 2007 and subsequent editions of the ASME Section VIII Division 2 have not been adopted in Alberta.

Alberta is taking steps to ensure the integrity of the SOPEEC examination system including investigating and taking found disciplinary/legal actions on individuals involved in posting of examination questions on website and an individual found using such questions in conducting power engineering training. All jurisdictions are urged to be vigilant and to take appropriate action in order to maintain the integrity of the SOPEEC system.

A customer satisfaction survey being conducted by ABSA through a third party organization for feedback from all who have been using any ABSA program service and immediately following receiving the program services. Feedback information will be analyze and processed by the third party organization to ensure that the survey is truly independent allowing.

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Pressure piping designed with random non-destructive examination but the non-destructive examination has not been conducted truly randomly will not be accepted for use in Alberta by ABSA. This issue was raised in many industry and standard-setting meetings and tabled for discussion in the Boilers and Pressure Vessels Technical Council meetings. Alberta Information Bulletin IB13-006, updating IB07-002 provides guidance and examples on this subject matter.

Overpressure protection by system design has always been allowed in Alberta under specific circumstances even prior to the introduction of such provisions in the ASME B&PV Code. Information IB13-003 “Overpressure Protection Requirements for Pressure Vessels and Pressure Piping” and ABSA Document AB-525 of the same title have been released to provide guidelines on overpressure protection of pressure equipment in Alberta.

Continuation with our report last year, as a result of a design submission being rejected for not in compliance to ASME code, it was found that the equipment was built under ASME code stamp by an overseas ASME Authorized Manufacturer. ASME Investigation confirmed that the equipment did not comply with ASME Code and the equipment was subsequently destroyed with the engineers of the Manufacturer involved being asked to go through additional training. Our position has always been that code-compliant fabrication must always start with a code-compliant design being in compliance in the first place.

Also, as reported last year, Gordon Campbell, as a result of an automobile incident July 2012, is still recovering from his injury and Mike Poehlmann is the Acting General Manager for ABSA.

Newfoundland: D. Eastman

- 1) Regulatory Changes (recent or future directions)
NL is watching closely the Plant Rating, Classification and Supervision Review with a view to future direction for Regulatory changes.
- 2) Program Changes (Management, Fees, Resources, Scope, etc.)
There have been no management, fee or scope changes. The Division lost one permanent position (Risk Assessment Engineer) this past year due to cutbacks.
- 3) Major Activities (Current or future)
Recruitment continues to be an ongoing major activity due to turnover of technical staff.

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Headquarters office moved this year from Mews Place, St. John's to the MRD Building Mount Pearl.

4) Incidents / Accidents

There were no major incidents/accidents to report this past year. There was a minor furnace explosion during light off involving a firetube boiler at a hospital with no injuries and minor damage. Cause appears to be a partially blocked return oil line which resulted in excessive fuel flow and large flame.

Nova Scotia: Report emailed and presented by S. Townsend.

1) Regulatory Changes (recent or future directions)

- Related OHS regulations for confined spaces now requiring rescue plan and equipment at every opening that is occupied. This has essentially stalled any internal inspection into confined spaces. We are trying to partner with fire services to provide rescue services as needed. If costs given to customer, price of inspection would increase by a 600%.
- Low pressure boilers greater than 500,000 BTU/hr now requires permit and periodic inspections and are now finding a large amount of safety issues with non-functioning safety equipment / combustion control.

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

- General Fee schedule review for all regulations in Technical Safety
- Fully staffed with 12 inspectors, (2 in training, 10 with IS Commission, 9 with A Commission, 2 AIS). 9 ASME Code Shops in NS covering H, PP, U, U2, S.
- NS now licenses contractors and quality programs are mandatory for gaining a license

3) Major Activities (Current or future)

- Two power generation projects (construction) finishing up with one just coming online and the other in commissioning. Biomass boiler conversions with independent power generation.
- CNG projects coming to NS to accommodate declining Bunker C fuel supplies and high cost of oil. The "mother / daughter" stations are similar to NB & PEI where the fuel is transported to customers that are within a 100 mile radius.
- Offshore gas projects, Deep Panuke to come online later this year,
- Sable Offshore Energy preparing for decommissioning

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

- Imperial Oil refinery has announced being decommissioned to become a storage terminal only. Slated for March completion.

4) Incidents

- No incidents reported.

PEI Report: S. Townsend

1) Regulatory changes:

- a. The Boiler and Pressure vessel regulations are being updated to as to include Compressed Natural Gas and to modify the Low-Pressure Bio-Mass heating boiler rules.

2) Program changes:

- a. There has been a 20 to 30 percent fee increase across the board with regards to inspection fees. The LP Gas and Compressed Gas inspections are increasing and addition inspectors are being trained.
- b. We are now responsible for oil tanks less than 2500 litres.

3) Major Activities:

- a. Compressed Natural Gas and Low Pressure Bio-mass heating systems.
- b. The conversion of staffed plants from thermal hours to kilowatts

4) Incidents:

- a. Nothing to report

Ontario Report: M. Adams

1) Regulatory Changes (recent or future directions)

- No Changes to BPV or OE Regulations. However, the ministry has recognized that changes are required for the OE regulation and may be required for the BPV regulation.
- TSSA updated its BPV [Code Adoption Document](#) to reflect/clarify current codes, consolidate/remove Director's Orders, & add missing regulatory requirement for BPV inspector qualification.
- TSSA issue [4 safety bulletins](#) (Table of Contents, Requirements for Manufacturers and Installers of Pressure Piping Parts and Systems, Ontario Certificate of Competency for Insurers, Pressure Relief Device Inlet and Discharge Piping Guide)
- TSSA issued [1 safety order](#) (Jaybell)
- TSSA issued one [Safety Product Notice](#) (Hansen)

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

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

- Staffing
 - New CEO - Michael Beard was selected as TSSA's new President and CEO
 - New VP Operations - Peter Wong was selected to replace Michael Beard as TSSA's new VP Operations
 - New Senior Technical Specialist (STS) - Caslav Dinic was selected to replace Tony Scholl as BPV's STS (was BPV Senior Engineer)
 - Two field staff took new head-office roles at TSSA
 - 3 new BPV positions were approved. Positions filled, but domino vacancies are currently being filled (currently interviewing for 4 backfill vacancies)
- Fee Review
 - [New fee schedule](#) came into effect 1 May 2013, in effect for 3 years
 - Average increase 3% / year

3) Major Activities (Current or future)

- Requirement for OE Regulation review has been recognized by the ministry and resources are being engaged to review.
- Scope report and Options Analysis are being developed for the ministry to determine the optimal means for regulating BPVs in Ontario. Current regulation decrees that 100% of regulated BPVs in Ontario are periodically inspected every 1,2 or 3 years by either TSSA or an insurer. TSSA currently has no proof that this is being done.
- [New TSSA Web site](#): Phase 1 - mostly cosmetic (in place now), Phase 2 - under development.

4) Incidents

- 7 incidents reported in the past 12 months: 4 regulated, 3 exempt.
- of the 4:
 - 2 BPV incidents related to Gasket Seal failure. (Plate heat exchanger and the non code tofu cooker)
 - 1 incident of ammonia release which caused headaches to 1 individual. (Gasket seal on plate heat exchanger)
 - 1 incident of burning (face) to 1 individual. (Tofu cooker not built to a code, no RV installed)
 - 2 BPV Pressure Boundary Failures.

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

- 1 Connection between the RV and Air Receiver.
(Threaded joint without support, moment caused thread damage) (no injuries)
- 1 Boiler Tube deformation. (Boiler chemistry and flow rate caused the local overheating) (no injuries) (CRN being evaluated for design flaws. CRN available upon request)
- one of the 3 exempt incidents resulted in 9 injured, 6 sent to hospital. All related to rupture of high pressure Grease Line (unregulated due to $< 1.5 \text{ ft}^3$)

Saskatchewan: C. Selinger

1) Regulatory Changes (recent or future directions)

- None

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

- CEO Ken From resigned last summer and replaced in January by William J Scott.
- Fees increase of approximately 6%.
- Continuing with the development and modifications to Basebridge software for our inspection and licensing information.
- Moved head office location to 2202 2nd Avenue, Regina, SK S4R 1K3.
- Renewed AIA Certificate of Authorization

3) Major Activities (Current or future)

- Increase of pressure equipment by 6.4%
- Completed 11,875 inspections, issued 2,237 welder licences, registered 1,779 designs, conducted 3,211 power engineering exams
- 13.7% of equipment in province under a Quality Management System of Inspections

4) Incidents

- 10 reported incidents investigated
- One overpressure situation during a hydrostatic test
- One vacuum situation following a hydrostatic test
- NH₃ vessel had PSV break off during high winds and heavy snow fall

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

50.8.2 *National Board of Boiler and Pressure Vessel Inspectors (NBBI): D. Douin*

Significant number of training and workshops – tremendous increase in training participation;

Didn't see downturn in economy from data reports for a couple of years however other increases have compensation;

On-line training growth – more than at site. Project adding new boilers, steam system, water treatment equipment at NBBI site to start steam testing again shortly. Also confirmed that continuing education requirements for NB commission and endorsements if not completed in 2012, need to be done by end of 2013 – every 2 years. New certification to individual not company – on NBBI website under commissions and endorsements.

50.8.3 *Canadian Nuclear Safety Commission (CNSC) Y. Wang*

Y. Wang presented the following CNSC jurisdiction report:

Regulatory Changes (recent or future directions)

- Administrative Monetary Penalties (AMPs)
 - Fines for non-compliance/violations
 - Another “enforcement tool” for CNSC
- Fukushima Action Plan
 - Outlines activities to be completed by licensees and CNSC, includes power reactors and other major nuclear facilities (research reactors, mines, mills)
 - Changes to some CNSC regulations and regulatory documents
- Shutdown of Gentilly 2
 - Decision of Quebec government
 - Affects CNSC funding/resources.

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

The requirement on pressure boundary program in N285.0-12 update No 1 edition (publish soon)

The requirement was used to be Power Reactor Operating Licence (PROL). This is in addition/above the quality manual program.

Major Activities (Current or future)

**Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013**

Current Status

CNSC:

- CNSC Regulatory documents update (see in CNSC website)
- CNSC hosted AIA workshop in 2012 & 2013 to obtain feedback on AIA implementation and share experience of AIA implementation

Licensees:

- Darlington Licence renewed to Dec. 31, 2014. Refurbishment planned from 2016 -2022.
- Pickering Licence renewed for continued operation until August 2018. Plan is to shutdown Pickering by 2020.
- Bruce Power Unit 1 and Unit 2 are back to service after refurbishment.
- Point Lepreau Back to service after refurbishment.
- G2 will apply for licence amendment for safe storage leading to decommissioning

New Build

- CNSC has completed the design review on AP1000 and EC6. CNSC is waiting for Ontario government decision on new-build bids
- 2012 August, CNSC issued the Licence to Prepare Site for the Darlington New Nuclear Project (DNNP).
- OPG Deep Geologic Repository (DGR) Project in Bruce County
 - Licence application for the Site Preparation and Construction of the OPG's DGR project for Low- and Intermediate-Level Waste (L&ILW)
 - Public hearing coming soon (Sept 16-Oct 12, 2013)

Incidents / Accidents

- Pickering Unit 1 Lube Oil Purification Fire Event – 01 January 2013
 - The fire was failure of the 70KW process heater in the “on” position with a closed lube oil circuit. It is suspected that the relief valve did not operate as well to relieve the high pressure within this closed loop of the lube oil purification system.
 - during the Guaranteed Shutdown State
 - No one injured
 - Did not challenge reactor safety
 - No any radiological safety related issues

50.8.4 Human Resources and Social Development Canada (HRSDC)

No participation by the HRSDC.

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

50.8.5 National Energy Board (NEB): S Ahmad

S. Ahmad presented the following NEB jurisdiction report:

1) Regulatory Changes (recent or future directions)

Since July 03, 2013, [Administrative Monetary Penalties](#) (AMPs) have come into force as a flexible enforcement tool to complement other types of regulatory sanctions such as orders, directions and prosecution.

The AMP Regulations will allow the NEB Board to impose financial penalties on companies or individuals for non-compliance with NEB Act, regulations, decisions, permits, orders, license or certificate conditions.

Note that under AMPs, the penalties do not increase, i.e., maximum daily penalties of the NEB Act of \$ 25,000 for individuals and \$ 100,000 for any other person (e.g., companies), hold.

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

- Following changes were made to the [National Energy Board Onshore Pipeline Regulations – SOR/99-294](#):

[2013-07-17: NEB Management System & Protection Program Audit Protocol](#)

[2013-07-10: OPR Management System Amendment](#)

[2013-07-10: Accountable Officer Appointment and Notification](#)

3) Major Activities (Current or future)

Facilities Applications (s52 and s58):

- Enbridge Pipelines Inc. – [Edmonton to Hardisty Pipeline Project](#).
- Enbridge Pipelines Inc. – [Line 9B Reversal and Line 9 Capacity Expansion Project](#).
- Northern Gateway Pipelines Limited Partnership – [Enbridge Northern Gateway Project](#).

NEB Safety Forum 2013

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

NEB conducted a [safety forum](#) on June 05 – 06, 2013 in Calgary which was attended by over 300 participants and 20 speakers from corporations, academia, consultants and other regulators of the oil and gas industry. Focus was on developing and strengthening safety culture, effective management systems and measurement of safety performance.

4) Incidents 2012

Rupture

On 28 June 2012, a pipeline rupture and ignition occurred on Westcoast Energy Inc.'s 406.4 mm (16-inch) Nig Creek pipeline, located about 40 km northwest of Buick, British Columbia. Approximately 25 minutes later, a pipeline rupture and ignition occurred on Bonavista Energy Corporation's 168.3 mm (6.625-inch) pipeline installed nearby in the same right-of-way. At the time of the ruptures, both pipelines had been shut down and contained pressurized sour gas.

<http://www.tsb.gc.ca/eng/rapports-reports/pipeline/2012/P12H0105/P12H0105.asp>

Serious Injuries

- Two workers sustained burn injuries when natural gas ignited in a valve enclosure during valve maintenance. One worker was released from hospital the same day; the other was evacuated to the burn unit of a hospital in Vancouver. The incident is being investigated by the TSB and the report is due out shortly.
- A worker collapsed after being exposed to H₂S during pigging operations. Apparently, workers had been using SCBA to receive the pig, but the worker was exposed to residual H₂S after removing the SCBA. The worker recovered.
- Improper lifting of metal floor grating resulted in the slings slipping off zoom-boom forks. The grating struck a worker in the leg resulting in a fractured tibia.

Arc Flash

A station transformer shorted to ground resulting in an arc flash. Contact was made inside the transformer due to a loose fitting.

**Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013**

Battery Failures

The first of a series of incidents of batteries failing or exploding were reported. The batteries were part of the APU's or PPU's. These incidents remain under investigation.

A 50.9.1 (Item A 49.8) ACI Constitution / Review of membership on Standing Committee / Jurisdictional comments

Refer to item 50.6.4.

**A 50.10 Committee / Task Force / Liaison Reports:
50.10.1 CSA Z662**

K. Lau presented the following report for information only:

Two Meetings of the CSA Z662 Technical Committee were held in the last twelve months. The current schedule is for a new edition of the CSA Z662 standard to be published in the beginning of 2015. And November 2013 is ideally the last chance to submit requests for changes. A draft new edition will be out for public review in 2014.

In the last two meetings, few issues that would impact on CSA B51 Technical Committee were discussed. Major proposed changes proposed include change of provisions for steam distribution pipelines, and possible inclusion of high temperature pipeline systems for operation over 230°C.

This proposal on pipeline temperature would include a proposal of removal of the 230 °C limitation from the scope of the standard for non-steam pipelines. At present, the scope of the standards exempts "(b) piping (except oilfield steam distribution piping) with metal temperatures above 230 °C. The scope change will need to go before the Steering Committee and there was considerable discussion on this subject matter. The driving force for the change has been for the production pipelines in steam-assisted gravity drainage (SAGD) oil production systems which may have steam/vapour phase fluid mixture at high temperature. There has been a reluctance of industry to design and construct these pipelines to steam distribution pipeline provisions. The Production Subcommittee will be reviewing this item in further detail later this year in conjunction with ERCB/AER and ABSA.

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

There has been considerable activity on the development and incorporation of provisions on Integrity management of pipeline system in the CSA Z662 standard. This is similar to the Pressure Equipment Integrity Management (owner/user quality management) system already in place in many operating boilers, pressure vessels and pressure piping systems. The need for integrity management system for pipeline has been driven by both the pipeline regulators as well as the pipeline operating companies.

The recent issue relative to interpretation and proper application of random non-destructive examination under ASME B31.3 was also tabled for information and discussion in the June 2013 meeting of the CSA Z662 Technical Committee.

50.10.2 ACI Technical Committee

On behalf of D. Ehler, C. Turylo briefly presented the ACI TC April 16 and 16 meeting minutes. No action items to be brought forward to the CSA B51 Technical Committee.

Attachments:

[2013 ACI TC April 15 & 16 Meeting Minutes \(D0435922\)](#)

50.10.3 NPSAC

D. Eastman reported that NPSAC currently has only one relevant interest to ACI and that is in operating plant service requirements. The following is the Liaison Report:

The National Public Safety Advisory Committee met twice since the last ACI meetings, Fall 2011 and Spring, 2012.

NPSAC Draft Value Statement

NPSAC is working on a Value Statement with the following as its mandate:

The committee's mandate is to:

- Provide advice on policy, administrative and management issues concerning a provincial/territorial/national public safety system
- Develop a framework that effectively supports the management and maintenance of codes, standards and related legislative processes at the provincial/territorial/national level
- Encourage information sharing and communication, consensus building, and the establishment of best practices to manage public safety.

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

The committee's vision is a responsive policy and administrative framework that provides a public safety system for buildings, equipment and facilities throughout Canada that is effective and accountable, and commands high public confidence.

Boiler and Pressure Vessel Regulation – Supervisory Oversight

The Chair of NPSAC reported on the progress made by the ACI and SOPEEC with respect to boiler plant rating and classification and expressed the committee's keen interest in moving this forward at the upcoming ACI meetings in Toronto.

Other Agenda Items of Note

NPSAC also received updates and reports on the following topics:

- Accreditation of Standards Development Organizations in Canada
- F/P/T Committee on Regulatory Governance and Reform
- Canada's International regulatory Cooperation
- Electric Vehicles/Alternate Fuels/Green Energy Initiatives
- Consumer Product safety – Implications of Consumer Product safety Act
- National Approach to Coordination of Electrical Product safety
- National Safety Data Base
- Strategic Approaches to Standardization – Monitoring Standards in Regulations Project
- Northern Infrastructure Standardization Initiative

A 50.11 New Business

50.11.1 Requalification of Faber Cylinder beyond 15 year life

C. Turylo reported that TSSA has been approached for life extension of composite cylinders beyond the original 15 year life using acoustic emission and lead the discussion.

Action Item 6: Forward to working group for review and recommendations for ACI and/or CSA B51.

Working group members: T. Scholl committed representative from BCSCA, K. Lau committed representative from ABSA and A. Adeoti, TSASK. Also agreed to approach Powertech for input as well. C. Turylo (TSSA) to arrange material to be sent to participants and first teleconference.

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

50.11.2 Non-metallic “repairs” of piping systems using ASME PCC-2

C. Turylo reported that TSSA has been approached by a manufacturer that wishes to use non-metallic materials to conduct piping repairs that are also strength bearing repairs using ASME PCC-2 and led the discussion.

Members agree that it is an alteration, not a repair.

Action Item 7: Forwarded to ACI/TC for review and recommendations for ACI and/or CSA B51.

50.11.3 Initial Grade B Pressure Welder Changes in AB

K. Lau presented the proposed the following changes for Grade B Pressure Welder Certificate of Competency:

Grade B Pressure Welder Certificate of Competency

The initial Grade B test is presently conducted on 6” coupon using the SMAW weld process with an E-6010 (F3) electrode for the root pass, and with E-7018(F4) electrode for the fill and cap passes. This test is reflected in the mutual recognition agreement for initial certification of pressure welders that Alberta has with all fellow Canadian pressure equipment jurisdictions.

With increase used of GTAW welding process in industry, there is a proposal in Alberta that an optional initial Grade B test be made available, if so selected by candidates attempting the Grade B Certificate of Competency examination. This test would be performed on a 6” coupon using the GTAW welding process for the root pass with an ER70S-2 electrode (F6) with a shielding gas (100% Argon) and no backing gas. For the fill and cap passes, the same SMAW weld process using E-7018 (F4) will continue to be used. A successful candidate, following the test, will obtain the standard Grade B pressure welder Certificate of Competency with an initial performance qualification card issued stating GTAW (F No.6) no backing and SMAW (F No. 4) with backing. It is intended that this optional test will be made available by October 2013.

It is very important to note that if a candidate qualified through this optional test desires to obtain the F3/F4 performance qualification (which is issued with the regular examination), this would now be considered an additional performance qualification. The welder would then have to go for additional testing for the added F3/F4 qualification.

**Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013**

Thus, following the implementation of the proposal, a pressure welder having passed an initial pressure welder test in Alberta, depending on the option the candidate has chosen, will obtain a Grade B Certificate of Competency with one of the two possible initial performance qualification cards.

Alberta will recognize this optional testing if equivalent certification is issued by another Canadian jurisdiction without revision to the previously signed mutual recognition agreement. Of course, it would be the prerogative of the other Canadian jurisdictions to provide the same mutual recognition. In any case, we would, appreciate being advised of your jurisdiction's position as to whether you may continue to provide reciprocal acceptance of the Grade B Certificate of Competency upon Alberta's implementation of the proposal. We will be following up with a written official request to you on this matter shortly.

Action Item 8: all jurisdictions to confirm their position directly with K. Lau.

50.11.4 2010 ACI agreement of CSA B51 Clause 4.3 Canadian Registration Number (CRN) Format

K. Lau reported that the pressure vessel/boiler CRN format was discussed during 2010 ACI meeting in Halifax, and the ACI members agreed that once CRN Z9999.x is reached, we will go with two letter prefix + four digit number + a decimal + a provincial digit.

After a quick survey was conducted this spring, TSSA issued some CRNs with 5 numerical digits.

Action Item 9: M. Adams to revisit with IS (TSSA) the numbering issue and report back to ACI if the original numbering system can be reinstituted with the 4 numerical digits.

50.11.5 New Bonding Requirements for ASME Section IX

C. Turylo reported that currently, there are bonding instructions in the piping codes, ASME B31. and B31.1 however there are now bonding requirement being introduced into Section IX and led the discussion to explore bonding in ASME Section IX and regulatory oversight and if any benefit to providing any text for CSA B51 with respect to registration of bonding procedures/bonders tests.

Action 10: Forward to working group or ACI/TC for review and recommendations for ACI and/or CSA B51

**Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013**

50.11.6 *Registration request (pending) for mechanical couplings in steam service (piping systems)*

C. Turylo provided the following paragraph that has been used by their organization for many years however the origin of this paragraph is not known:

Use of Mechanical Piping Couplings is limited to a temperature range of – 20 °F to 350 °F. Mechanical Pipe Couplings shall not be used on steam service not on hot liquid service above 250 °. The use of Malleable Iron products is limited to a maximum working pressure of 350 psi. Mechanical Pipe Couplings may be fabricated from Carbon Steel, Stainless Steel or Aluminum. This is acceptable provided these couplings meet the design and fabrication requirements of the Code and are used subject to the pressure and service limitations of Chapter III – Materials. Mechanical Pipe Couplings shall not be used in toxic services not on systems containing explosive or flammable fluids.

One manufacturer of mechanical couplings approached TSSA with a new type of mechanical coupling that would be specific to steam service and therefore requested any jurisdiction that has concerns for mechanical couplings in steam service to please advise TSSA. No concerns were raised except it was noted mechanical couplings shall not be used in superheated steam service.

A 50.12 Reports / Presentation of CSA B-51 Subcommittees:

50.12.1 *CSA B51 Clause 6*

C. Turylo presented the following Clause 6 July 22nd, 2013 Report. There are no action items to bring forward to CSA B51 Technical Committee.

Subcommittee Report, Clause 6 to the B51 Technical Committee

Members: R. Bryce - Heartland Software, P. Charron – FM Global, W. Dalpio – Babcock and Wilcox, P. Fok - ABSA, R. Graves – Saskatoon Boiler, T. Huynh – Miura Boiler, D. Srnic - ABSA, P. Molvie – Cleaver Brooks, C. Smith – Boilersmith, R. Sproston – BI&I, H. Sturm – Charles G. Turner&Assoc, C. Turylo (Chair) - TSSA, J. Weiss.

I wish to thank the members for their contributions on queries submitted on the following two subjects:

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

1. low water fuel cut-out devices for solid fuel fired boilers and,
2. blow off pits.

The following report is tabled for information summarizing technical information and discussion provided by subcommittee members on these two subjects. No recommendations for changes to the B51 are forwarded to the Technical Committee at this time.

Yours truly,

Cathy Turylo, Chair, Subcommittee Clause 6

Item 1: Low Water Cut-Out Device for Solid Fuel Fired Boilers

A question was raised to the subcommittee in regards to the applicability of low water cut-out devices for solid fuel fired boilers. In summary, members confirmed low water cut-out devices are most definitely required for solid fuel fired boilers. These both stop the flow of new fuel and stop the supply of combustion air to the residual fire by closing air inlet dampers, stopping underfire air supply fans, stopping overfire air supply fans and stopping induced draft fans (see additional information, item 3* below from Annex A of NFPA 85). Although combustion does not end, it is substantially reduced. In some cases low water cut-out devices also trigger a heat dumping arrangement or grate dumping feature.

The following documents were identified as sources of additional information:

FM Global Loss Prevention Data Sheet 6-12 Low-Water Protection for Boilers
UL 2523 Solid Fuel Fired Hydronic Heating Appliances, Water Heaters and Boilers

NFPA 85

Specifically ANNEX A of NFPA 85 has recommendations for Low Drum Level in a Stoker Fired Boiler as follows:

- Stop all fuel feed (s).
- Stop fan(s) that supply combustion air to the unit.
- * Continue running the induced draft fan with the combustion air damper at minimum setting to limit continued combustion of the residual fuel bed.

* To note the boiler may in fact only have an induced draft fan therefore the measures would have to be case specific and may then in fact stop the induced draft fan and just use natural draft. There really however needs to be a detailed Engineering Assessment of the specifics of the solid fuel boiler that determines the optimal response while minimizing other risks. Cutting back the air flow will create a lot of combustibles and likely low oxygen so it would be imperative to not have a downstream source of fresh air that could elevate the mixture into the explosive range.

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Although there was no clear support for changes to the B51 standard, to note one suggestion was to add “automatically fired” at the start of the first sentence of 6.3.2.1.

Item 2: Blow Off Pits

A query was raised about blow off pits and should there be any specific information provided by B51 or perhaps banned altogether – a few reference sources were provided. This query also yielded some good discussion and in spite of the incident in Australia, this type of installation did not appear to be common to the subcommittee members and certainly none that had been a concern. Therefore, there was no support for an outright ban and a few considered this to be a jurisdictional matter. Although there was no consideration for detailed instructions, one member suggested the addition of a blowoff tank before the pit and two suggestions for a general caution included, “blowdown must not present a hazard to people or property” or “consider the hazards of flashing steam and hot liquid to personnel and the environment, in the selection and operation of equipment to handle blowoff”.

References:

http://www.safework.sa.gov.au/uploaded_files/hazalert64i.pdf

[http://www.air-receivers.co.uk/files/Old%20 Blowdown safety considerations.pdf](http://www.air-receivers.co.uk/files/Old%20Blowdown_safety_considerations.pdf)

<http://resources.ccc.govt.nz/files/TWI-02-brochure-tradewaste.pdf>

Future Discussion

A third subject was brought forward with respect to waste heat boilers and there multiple subcontracting companies and assembly completed by another company to be deferred for future discussion.

50.12.2 CSA B51 Clause 7

No report – subcommittee did not meet.

50.12.3 CSA B51 Clause 4, 5, 6, and 11 DH

On behalf of D. Ehler, C. Turylo reported on the License Plant April 17 and 18 meeting minutes and attachments.

Attachments:

[2013 CSA B51 Subcommittee for Clauses 4, 5, 8, 11 and Annex D Meeting Minutes \(D0440352\)](#)

[2013 CSA B51 License Plate Amendments to CSA B51 Standards \(D0440353\)](#)

**Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013**

[2013 CSA B51 Clause License Plate sub-committee Statutory Declaration Registration of Fittings \(D0440354\)](#)
[2013 CSA B51 License Plate Clause 4.10 editorial changes proposal \(D0440350\)](#)

A 50.13 Review of CSA Committee Agenda:

50.13.1 CSA B-51 Agenda Review

C. Turylo, Vice Chair of CSA B51, reviewed this year's B51 agenda with members. A voice vote will be conducted at the B51 meeting for the publishing of the new 2013 edition.

Attachments:

[2013 CSA B51 Toronto meeting draft agenda \(D0437530\)](#)

50.13.2 CSA B-52 Agenda Review

K. Lau, Vice Chair of CSA B52, reviewed this year's B52 agenda with members. A voice vote will be conducted at the B52 meeting for the publishing of the new 2013 edition.

Attachments:

[2013 CSA B52 Toronto meeting draft agenda \(D0437545\)](#)

A 50.14 Standardization of Power Engineer Examinations Committee (SOPEEC)

50.14.1 Chair's Report – Steven Townsend

Closed session:

S. Townsend presented to 2013 SOPEEC Chair Report.

P. Yeung explained the SOPEEC Proposed Budget for 2013-2014 (Table A updated on May 2, 2013 - Applying 1.17 FTE with minimum payment at \$1000 and no federal government contribution).

Motion 2: to approve proposed SOPEEC budget based on Table A as presented by T. Scholl /B. Fierheller

Carried (unanimous).

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Action Item 11: Request SOPEEC Chair to pursue HRSDC under AIT to provide an independent person/study to review and assess provincial certificates.

Requirements for the Acceptance of Power Engineering Programs that are Approved by SOPEEC was presented by S. Townsend.

Motion 3: that the ACI adopt the requirements for the acceptance of power engineering programs (Appendix 1 [2013 July Power Engineering College Program Acceptance Checklist \(D0430055\)](#) and [2013 July Revised Requirements for Acceptance of Power Engineer Programs \(D0435033\)](#)) by T. Scholl / M. Adams

Carried (unanimous)

Motion 4: to approve 3B1 exam format to multiple choice along with question bank development by B. Fierheller / M. Mailman

Carried (unanimous)

Motion 5: to approve SOPEEC budget starting 2014-2015 increase minimum to \$1500 (for 11-100 exams) and those with less than 10 exams stay at \$1000 by A. Khassiss / B. Fierheller

Carried (unanimous)

SOPEEC Budget for Initial Development Cost for Multiple Choice (3B1 exam):

Motion 6: to approve increase to SOPEEC budget for initial development cost for multiple choice 3B1 exam development of 0.2 FTE per year for two years (two year development program) – 2014 to 2015 and 2015 to 2016 by T. Scholl / S. Ahmad

Carried (unanimous)

Open Session Resumes

IPECC Motions (4)

Reference Syllabus for Revised Power Engineer's Certificate of Competency Exam:

Motion 7: to approve 2nd class syllabus changes ([2013 IPECC Motions for SOPEEC 2nd Class Syllabus and Curriculum Changes \(D0440445\)](#)) by D. Eastman / M. Adams

Carried (unanimous)

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Motion 8: to approve 3rd class syllabus changes ([2013 IPECC Motions for SOPEEC 3rd Class Syllabus and Curriculum Changes \(D0440446\)](#)) by T. Scholl / M. Mailman

Carried (unanimous)

Motion 9: to approve 4th class syllabus changes ([2013 IPECC Motions for SOPEEC 4th Class Syllabus and Curriculum Changes \(D0440397\)](#)) by M. Mailman / D. Eastman

Carried (unanimous)

Motion 10: to approve 5th class syllabus changes ([2013 IPECC Motions for SOPEEC 5th Class Syllabus and Curriculum Changes \(D0440396\)](#)) by C. Selinger / T. Scholl

Carried (unanimous)

Attachments:

[2013 SOPEEC Chair Report to ACI Member \(D0439926\)](#)
[2013 SOPEEC Proposed Budget \(D0097899\)](#)
[2012 SOPEEC Approved Budget.pdf \(D0439814\)](#)

50.14.2 Coordinator's Report

P. Yeung presented the 2013 SOPEEC Coordinator Report.

Attachments:

[2013 SOPEEC Coordinator Report \(D0414400\)](#)
[2013 SOPEEC Coordinator ACI Meeting Presentation \(D0105141\)](#)

A 50.15 Other Business

50.15.1 Pressurized Loading Arms between Railcars and Storage Tanks – Cathy Turyle

For information and discussion only. Inquiry received in regards to design approval for pressurized loading arms between railcars and storage tanks on a mobile skid that would be taken to other jurisdictions as well. Other jurisdictions confirmed if connected with a storage tank, they would be involved with this equipment as well.

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

50.15.2 CSA B149.3 and ASME CSD-1 – Allan Hantelmann

The issue was raised regarding concerns with CSA B149.3 and overlap with ASME CSD-1. It was also stated that CSD-1 should be used in place of CSA B149.3. It was pointed out that the two standards are different with scope of CSD-1 being restricted to automatically operated boilers while CSA B149.3 is on field approval of fuel-related components on appliances and equipment.

CSD-1 is the referenced standard in CSA B51 for use in conjunction with automatically operated boilers and quite unrelated to CSA B149.3 which is typically enforced by fuel safety authorities.

Additional feedback provided from B. Fierheller with Manitoba's experience noted that one can apply in Manitoba for a field evaluation in accordance with CSA B149.3 – commonly for retrofits in the field. CSD-1 is typically applied to a fabricated system and for automatically fired boilers only and is certified to this standard. CSA B149.3 is only used when the alternative certification such as CSD-1 is not already completed.

50.15.3 Packaged Piping Systems on Skids – Aziz Khssassi

Discussion in regards to package skid systems (e.g. compressor skids) and regulatory requirements. K. Lau: Alberta has forms and guidelines for piping systems. C. Turylo: Ontario considers piping and fittings part of rotating/reciprocating equipment exemption but pressure vessels are regulated. C. Dinic (TSSA): Section IV boilers don't get registered with all the controls identified.

Action Item 12: All jurisdictions to provide A. Khssassi, RBQ with their response as to how package skid systems are handled.

A 50.16 Future Meetings – Dates / Location

August 25 – 28, 2014, Ottawa - confirmed

August 2015, Alberta – confirmed (if the NWT will not be able to host)

August 2016, New Brunswick - confirmed

Attachments:

[ACI and SOPEEC Meeting Host and Location History Matrix \(D0004045 version 4\)](#)

[ACI and SOPEEC Meeting Host and Location Proposal \(D0053097 version 4\)](#)

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

A 50.17 Adjournment

Motion 11: Motion to adjourn B. Fierheller / K. Lau

Carried (unanimous)

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Appendix 1 ACI Reference Documents

[2013 ACI Meeting Attendance Sign In Sheet \(D0006399 V7\)](#)

[2012 ACI Meeting – SOPEEC and IPECC Cooperation \(D0357861\)](#)

[2012 ACI Meeting Agenda Item IPECC and SOPEEC and AIT \(D0358160\)](#)

[2013 July Power Engineering College Program Acceptance Checklist \(D0430055\)](#)

[2013 July Revised Requirements for Acceptance of Power Engineer Programs \(D0435033\)](#)

[2013 July Power Engineer College Program Acceptance Letter \(D0435827\)](#)

[2013 SOPEEC 3B1 Exam Format Proposal and Budget discussion \(D0438991\)](#)

[2013 IPECC Motions for SOPEEC 2nd Class Syllabus and Curriculum Changes \(D0440445\)](#)

[2013 IPECC Motions for SOPEEC 3rd Class Syllabus and Curriculum Changes \(D0440446\)](#)

[2013 IPECC Motions for SOPEEC 4th Class Syllabus and Curriculum Changes \(D0440397\)](#)

[2013 IPECC Motions for SOPEEC 5th Class Syllabus and Curriculum Changes \(D0440396\)](#)

[3B1 Proposed SOPEEC Meeting Executive Summary Item \(D0415973\)](#)

[3B1 Weight Factor \(D0418274\)](#)

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Appendix 2 CSA B51 Reference Documents

[CSA B51-09 Codes \(D0185345\)](#)

[CSA B51 Meeting Minutes – PEI \(D0434283\)](#)

[CSA B51 Ballot Draft \(D0438937\)](#)

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Appendix 3 CSA B52 Reference Documents

[2007 CSA B52 2005 Practical Handbook for Implementing B52-05 \(D0056022\)](#)

[CSA B52 Refrigeration Code 2005 \(D0161380\)](#)

[CSA B52 Meeting Minutes – PEI \(D0434377\)](#)

[CSA B52 Meeting Minutes – PEI Attachments \(D0434379\)](#)

[CSA B51 Ballot Draft \(D0438950\)](#)

Meeting Minutes
Association of Chief Inspectors
50th Annual Meeting – Toronto, ON
August 19th and 20th, 2013

Index

Action 01	11	Attachment 01	7	Motion 01	11
Action 02	12	Attachment 02	10	Motion 02	34
Action 03	12	Attachment 03	10	Motion 03	35
Action 04	12	Attachment 04	10	Motion 04	35
Action 05	12	Attachment 05	10	Motion 05	35
Action 06	28	Attachment 06	11	Motion 06	35
Action 07	29	Attachment 07	11	Motion 07	35
Action 08	30	Attachment 08	12	Motion 08	35
Action 09	30	Attachment 09	13	Motion 09	35
Action 10	30	Attachment 10	13	Motion 10	35
Action 11	34	Attachment 11	13	Motion 11	37
Action 12	37	Attachment 12	27		
		Attachment 13	33		
		Attachment 14	33		
		Attachment 15	33		
		Attachment 16	33		
		Attachment 17	34		
		Attachment 18	34		
		Attachment 19	36		
		Attachment 20	36		
		Attachment 21	36		
		Attachment 22	36		
		Attachment 23	36		
		Attachment 24	37		
		Attachment 25	37		