



# Technical Standards and Safety Authority

Minutes of the Boilers, Pressure Vessels, &  
Operating Engineers Advisory Council  
Meeting on October 26, 2022

Minutes of the Boilers, Pressure Vessels, & Operating Engineers Advisory Council meeting of the Technical Standards and Safety Authority (TSSA) held by teleconference at 9:00 a.m. on the 26<sup>th</sup> day of October, 2022.

**Present:** Justin Awoyomi for Kavita Ramcharan, CBMUA & BI&I; Greg Black, International Union of Operating Engineers (IUOE); Mario Gogic, Babcock & Wilcox Canada; Mohammed Farooqi, Imperial Oil; Yan Huang, Royal Sun Alliance Insurance Company of Canada (RSA); Ryan Jones, The Sovereign General Insurance Co; Ralf Klopf, Institute of Power Engineers; Ronald Morrison, TSSA Consumers Advisory Council; Rod Philip (Chair), Stelco; Hillar Prits, CIMCO Refrigeration; Randy Purves, Conestoga College; Brian Taylor, CBS & Waterloo Manufacturing Co. Ltd.; Jamie Webb, MCA & Anderson Webb.

Alexandra Campbell, VP, Communication & Stakeholder Relations; Caslav Dinic, Technical Supervisor, BPV Safety Program; Kristian Kennedy, Manager, Stakeholder Relations; Shaun Montano, Manager, Engineering, BPV Safety Program

**Regrets:** Jamie Dreveny, Ontario Power Generation; Mark Lambert, St. Clair College; Peter Michieli, Arlanxeo Canada Inc.; John Milton, Ontario Recreation Facilities Association; Fred Oliver, MCA Sarnia & Kel-gor Ltd.

## 1. Welcome & Constitution of Meeting

The Chair, R. Philip, called the meeting to order at 9:02 a.m.

### a. Safety Moment

For the safety moment, Council was shown a short video on the safety implications of ice storms.

## 2. Adoption of the October 26, 2022 Agenda

Council adopted the agenda as presented.

## 3. Approval of April 5, 2022 Minutes

Council approved the minutes as presented.

## 4. Review of Action Items

K. Kennedy provided an overview of open action items from the April 5, 2022 meeting.

There was a question concerning the issue of reprisals. K. Kennedy explained that a legal interpretation is still under consideration with the Ministry of Public and Business Service Delivery.

On council representation, the chair will submit a survey of members to TSSA with feedback on the merging of advisory councils for follow up report with TSSA.

B. Taylor asked if the objective is to cap the membership at 15. K. Kennedy replied that the objective is to cap at 15. He reminded council members that TSSA reviewed this proposal with the councils at previous meetings.

A. Campbell spoke to the reasons for the Terms of Reference changes, including the need for strategic focus, the difficulty of managing multiple priorities raised in council meetings and the importance of

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transparency. She did note that there is some latitude small time-bound working groups to do deeper dives in smaller meetings. A. Raval added that over the past year there is real benefit for a focused approach to councils involving both parts of the industry.

G. Black commented that in the current format there is not sufficient time to speak about issues, meetings are limited and there are several industries represented. OE-specific meetings do not need to involve all TSSA staff. G. Black added that during the consultation on the proposed Strategic Plan operating engineers were outvoted on the council compared to the BPV council. A Campbell spoke to the fact that there are approximately 100 people on the advisory councils. The situation was unmanageable previously, so efforts were made to consolidate meetings.

A. Raval encouraged members to use the issue protocol which is more efficient.

J. Awoyomi, R. Purves, Y. Huang and R. Klopf indicated that they support separate meetings, such as the insurance group.

J. Webb asked about the TSSA engineering backlog status. S. Montano stated that based on the current number there should be a six-week turnaround time. For business-critical submissions, he advised that members contact him directly. S. Montano added that TSSA is looking to hire more staff to increase capacity. J. Webb commented that TSSA indicated that the backlog would be cleaned up by October 15. M. Farooqi concurred with these comments. A. Raval suggested taking the issue offline at the MCAO meeting.

## 5. Chair's Update\*\*\*

R. Philip spoke to this item, noting that he provided a written submission for review ahead of the meeting to be treated as read. He publicly acknowledged B. Gee's service with TSSA. Second, he raised that he is receiving inquiries about the structure of the councils. He noted that he did a survey of members and most members believed there is support for the plenary format but industry specific council meetings are necessary. They ask that TSSA reconsider its structure of merging meetings. One proposal is to have a sub-committee that can bring results back to plenaries. There is an appreciation that changing the format is a TSSA prerogative.

There were no questions or comments from council.

## 6. Council Administration

### a) Membership Renewal – Justin Clappison, Randy Purves, Jamie Webb

All three members agreed to renew their membership.

## 7. BPV/OE Issue Prioritization Recap & Discussion

### a) Recap of priorities

A. Raval reviewed council priorities from previous meetings.

The UID process is tracking well. For guidance on low- and medium-risk non-compliances, this issue is on-hold as TSSA needs to confirm how this ties into an outcome-based approach. K. Kennedy added that the "Dear Principal" letter was not pursued as a priority. The reprisal issue was covered earlier in the minutes. On ice-sheet safety, a draft advisory is complete and is with legal counsel to review. The Chair noted that it is a five-year anniversary of the Fernie incident in British Columbia that prompted the advisory. He noted that a member of council has shared information on the incident that can be shared with council.

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Y. Huang asked about UID issue. He remarked that it is unusual for a company to submit 500 applications.

A. Raval commented that right after the plenary meeting TSSA received a list of 500 devices. There is a combination of reasons why so many came in all at once. Approximately 300 of the 500 were already issued; the other 200 required a deep dive to review.

R. Purves asked about the status of the recruitment of a new chief officer. A. Raval replied that the recruitment process is in the final stages. He anticipates there will be an announcement in the next few weeks.

G. Black spoke to the ice-sheet issue. Noting that deferred maintenance was the key safety finding of the Fernie incident report in British Columbia, he asked what the expectations will be in Ontario for operating and maintaining equipment. A. Raval replied that some of the changes recommended on the technical side in the Fernie report are going to be included in the newest version of the B52 Mechanical Refrigeration Code. See Appendix. TSSA will be seeking stakeholder feedback on an advisory. He added that the Ontario Recreation Facilities Association (ORFA) and curling associations have provided preliminary input. G. Black commented that the consultations would be an opportunity for feedback from the Operating Engineers Advisory Council. TSSA plans to engage the Council as well as the Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI) and the Ontario Refrigeration & Air Conditioning Contractors Association (ORAC).

R. Klopf commented that TSSA should not protect businesses for misuse of equipment or a lack of commitment to equipment replacement. He recommended that the advisory needs to be robust and retroactive. Plant users need to appreciate the equipment that have in their facilities and the importance of code requirements. A. Raval cautioned that all stakeholders need to be cognizant of what is possible to enforce within TSSA's legal mandate.

C. Dinic provided an update on the relevant changes to the B52 code. It is expected to be published next year. He will circulate the relevant sections by attaching them to the minutes. He stressed that the code is subject to change and is not yet published. A. Raval stressed that the advisory combined with the B52 code changes together.

### **b) Timely issuing of certificates/certificates issued with no level of certification**

A. Raval explained that the issue of issuance of certificates is now resolved.

### **c) Turbine permits**

Turbine permits are now on TSSA's customer relationship management (CRM) and are no longer manually inputted. Going forward processing of permits will be automatic. R. Klopf noted that the new permits are not signed by TSSA, but only indicate that they are issued by the chief officer. A. Raval confirmed that this is by design and is consistent with other TSSA-certified documents.

**Action:** K. Kennedy to attach code information to the minutes.

The chair spoke to the importance of agenda request forms. We didn't receive many and had to come up with agenda items.

### **Adjournment**

The Chair adjourned the meeting at 10:36 a.m.



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### Appendix: Proposed Changes to CSA B52

The new edition of CSA B52 will include the following new clause:

#### 5.1X Secondary Coolant Systems

Where there is a potential risk of refrigerant leakage into a secondary coolant (for example a heat exchanger with refrigerant on one fluid side of the exchanger and a secondary coolant on the other fluid side of the exchanger), the system designer or facility owner, through system design or other means shall address how the system can safely withstand the effects of a refrigerant leak.

The following are some risk mitigation options listed for consideration as applicable:

- a) The non-refrigerant secondary coolant system is designed for a system pressure that includes a potential pressure rise due to a refrigerant leak or, at a pressure at the refrigerant design pressure or higher.
- b) Over-pressurization is addressed through automated controls such as pressure-relief devices (refer to 7.2.4).
- c) Provide for a safe configuration of the chiller or heat exchanger in the event a leak is discovered (e.g. equipment isolation).
- d) Monitor the secondary coolant for developing hazardous refrigerant exposure on a regular basis such that timely repairs are completed.

Other design choices may be subject to acceptance by the regulatory authority.

*Note:*

A sudden release of refrigerant could create, IDLH concentrations, and/or a dangerous pressure energy event with the potential to injure someone.

2. Additionally Clause for maintenance of refrigeration system will be amended and added text to 8.4.2 i) i) :

“Regular system checks for the presence of refrigerant in non-refrigerant containing systems such as secondary coolant systems, need to be conducted.”