

# Summary ACI / B51 / B52 Meetings

## 1 ACI

- Working on initiative that would streamline the CRN process i.e. registration in one province would apply to all provinces. This initiative will also look at harmonizing / standardizing the CRN. This initiative is being spearheaded by ABSA and TSSA
- Incidents report – by province

| Province | Incidents   |
|----------|---|
| NT       | Nothing to report   |
| BC       | Fernie  |
| AB       | <p>Two (2) fatalities with pressure equipment</p> <ul style="list-style-type: none"> <li>- Supports for vent piping deteriorated over time and eventually failed, allowing the piping to sag, compromising its connection to the boiler. With the vent piping disconnected, exhaust gases were able to leak into the building, allowing carbon monoxide to accumulate to dangerously high levels. This caused the death of a worker due to exposure. Note that due to its size this object was exempt from inspections</li> <li>- Industrial painter died after suffering serious injuries when knocked from the top of a sandblasting hopper. He was opening the top hatch of a sandblasting hopper. There apparently was still trapped pressure in the container. When he opened the hatch the pressure caused him to fall off of the hopper.</li> </ul> <p>One (1) injury</p> <ul style="list-style-type: none"> <li>- Explosion occurred at a scrapyard. Appears that a propane tank was received that still had ~500g of propane inside. Tank was pierced which release a cloud of propane that caught fire and led to explosion. A worker was burned</li> </ul> |
| SK       | Nothing to report   |
| MB       | Nothing to report   |
| ON       | <p>One (1) incident</p> <ul style="list-style-type: none"> <li>- Sterilizers – large ones in hospitals that you can walk into with a clean side and dirty side (2 doors) <ul style="list-style-type: none"> <li>o Procedural issue existed – doors were disabled via alteration of the pneumatics on one side. Cylinders attempted to open the doors when the bolts got loose which caused the door to fly off. There were no injuries</li> </ul> </li> </ul>   |
| QC       | Nothing to report   |
| NB       | Nothing to report   |
| NS       | Nothing to report   |
| PEI      | Nothing to report   |
| NFLD     | Nothing to report   |
| YK       | Nothing to report   |
| NWT      | Nothing to report   |

- ACI meetings will now be open. There will be no closed sessions
- Next ACI Meeting – August 19 & 20, 2019 in Vancouver BC

## 2 B51

- Public review period is now closed. Twenty five (25) comments came in. Most of them require further discussion for consideration in later edition of B51

- Two (2) new and one (1) (reaffirmed) Vice Chairs appointed
  - New: Michael Poehlmann and Izak J. Roux
  - Reaffirmed: William Simpson
- Code adoption status by province

| Province  | Code                                     |
|---|--|
| NT  | 2014                                     |
| BC  | 2014                                     |
| AB  | 2014 EVERGREEN                           |
| SK  | 2014                                     |
| MB  | 2014 EVERGREEN                           |
| ON  | 2014 (REFERENCE STANDARDS ARE EVERGREEN) |
| QC  | 2014 EVERGREEN                           |
| NB  | 2014                                     |
| NS  | 2014                                     |
| PEI   | 2014                                     |
| NFLD  | 2014 EVERGREEN                           |
| YK  | 1972                                     |
| NWT   | 2014                                     |
| NOTE: EVERGREEN refers to the automatic adoption of new versions / editions of the code |  |

- Next edition
  - CSA 19<sup>th</sup> edition of B51 to be published January 2019
  - Handbook that accompanies the code will be published June 2019
  - Next B51 meeting – August 22, 2019 in Vancouver BC

### 3 B52

- Public review period is now closed. Only six (6) comments came in. except for one, all other comments will be considered for inclusion in the 13<sup>th</sup> edition of B52
- The BC Chief Inspector gave a presentation on the Fernie accident. Following the investigation three (3) main root causes were identified,
  - Failure of refrigeration system equipment
  - Operational decisions that contributed to the incident
  - Impact of inadequate ventilation and discharge systems following the incident
- Contributing factors related to the release of ammonia were
  - Chiller age and corrosive potential of the chemicals and materials used;
  - Presence of tube weld seam fusion defects;
  - Isolation of the curling brine expansion tank;
  - Isolation of liquid ammonia within the leaking chiller; and
  - Unsupported coupling joints on the brine system pipe.
- There were recommendations that arose. Of the eighteen (18) total recs four (4) are the responsibility of the B52 committee. Specifically, the B52 committee was asked to,

- Re-evaluate the intended purpose of the emergency discharge provisions of CSA B52-13 Annex B and consider eliminating it from the code or discouraging its use.
- Implement a requirement into CSA B52-13 to assess and verify by test that the ventilation systems effectively exhaust the mechanical room and externally discharge exhausted air in a manner that minimizes the risk of exposure.
- Implement leak rupture ventilation requirements into CSA B52-13 that consider leakage scenarios, system performance and airflow within and outside of the mechanical room.
- Include design, configuration and condition requirements into CSA B52-13 to ensure the secondary coolant portion of a system can safely withstand the effects of a refrigerant leak.
- BC Authority recently released a small video where the incident is discussed <https://www.youtube.com/watch?v=BBxzXKRSjsc>
- New code edition
  - CSA 12<sup>th</sup> edition of B52 is still on track to be published Dec 2018
  - Handbook that accompanies the code is now scheduled to be published December 2019 (as opposed to June 2019)
  - Next B52 meeting – August 21, 2019 in Vancouver BC

#### **4 ASME**

- New standard ASME Section XIII – Overpressure Protection to be published in 2019. This standard will combine all the PV requirements under one code document

#### **5 OFF The RECORD.....**

- A few provinces are discussing the possibility of opening up jurisdictional inspections to insurance companies. Major reasoning is for compliance and inability to keep up with inspections. The provinces that expressed interest are,
  - BC
  - AB
  - MB