

# Report to CB&MUA

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**CSA B51 and B52 Annual Meetings  
August 11 –13, 2004  
Iqaluit - Nunavut**

**Presented by Paul Sterescu**

Based on personal notes taken during the meetings

Attendees: All Chief Inspectors from provinces and territories, Members of Technical Committee from the industry and guests. Representatives from BC and Newfoundland, PEI, NB and Yukon and HRDC-Ottawa, as well as some industry representatives were absent.

### Organizational items

1. The Chair, Doug Saunders of York International called meeting to order and welcome remarks were made by the Chair on behalf of B52 and by Bill Bachellier on behalf of the Government of Nunavut territory.
2. Agenda was adopted
3. Membership issues
  - a. Presently the technical committee membership has the following matrix:
    - i. Manufacturing: 9 members
    - ii. Regulatory Authority: 14 members
    - iii. Users: 11 members
  - b. Membership changes
    - i. Kamal El-Mousfi of Factory Mutual and B Harford of UA have retired. No replacement yet.
    - ii. Suzana Katz was approved as member under user category
  - c. Membership recognition  
Suzana Katz and Ken Lau were the recipients of CSA's Award of merit for 2004 for outstanding contribution to standards development
  - d. Chair reaffirmation
    - i. Doug Saunders was reaffirmed to 2007
    - ii. Ken Lau was reaffirmed as VC till 2007
4. 2003 MOM was approved

### Last Year Issues

5. Emergency Discharge on ammonia rooms report supposed to be completed by the ACI TC last November was still not ready and C Turylo reported that the completion would occur in the next few weeks.
6. Ammonia exposure guidelines study from Enviromed? Cimco was not completed. It was moved on the 2005 Agenda.

### ISO TC 86

7. Discussions around Canada's Advisory Council participation to the international stage and developments of new refrigeration standards. It was noted that the website is difficult to access but is monitored regularly and appears to have no important activity.

### B52 New Edition

8. Last edition was published in 1999. Draft proposal was circulated early in July and comments were received by the drafting committee and will be incorporated into the new edition.
9. It was requested that the French translation be started early so it will reduce the lag between English and French editions.

## **B52 Handbook**

10. In order to facilitate a better understanding of B52 requirements and application, B52 TC put together a Handbook. First draft of this handbook was circulated in February 2004 and comments were received and reviewed. A new target date was set for September 2004. Request was made to develop the new edition of the code together with the handbook in a computer friendly format to enable easier access to the code.

## **Subcommittee Reports**

11. Discussion on minimum ventilation requirements under section 5.2, triggered by a letter from A Podhorodeski of PB Engineering. There appear to be a conflict with section 5.3. It may cause equipment failure in colder seasons? Cathy Turylo to contact Scott and reword the clause.
12. The Subcommittee on retrofitting was disbanded
13. L Burgett reported on ASHRAE Connection. Mr. Burgett was nominated as President elect of ASHRAE International. Efforts to harmonize ASHRAE and ISO; effect? On B52.
14. Doug Saunders reported on B52 executive committee meeting in may 2004 to prepare for the August meeting.

## **Incident reporting**

15. C. Castle of Nova Scotia reported on an incident in a large cold storage facility where a forklift truck hit and ruptured an ammonia pipe. It evacuated safely outside where it went downstream to a school. School had to be evacuated. Accident due to improper use of the forklift – human error.
16. N. Surtee of Saskatchewan reported on a roof top compressor unit that blew up possibly due to a malfunction of a safety valve. Investigation still ongoing.
17. C Turylo of Ontario reported on the Midland incident where an improper use of flexible connectors in a rink refrigeration unit caused a start up explosion that killed the contractor.

## **New business.**

18. New ASHRAE edition includes requirements for adsorption/Absorption systems. The question was asked if B52 should follow the same path. At this time there is no Canadian standard for these systems. These ammonia based systems use water as coolant, but they also operate with steam and may fit better under B51
19. A proposal to modify the clause 6.2.3.regarding the discharge of the SV into the low-pressure side of the system was generating more controversy than the original clause. There appear to be a disconnect between the clause 6.2.3 and the clause 6.3.6.2 specifying the conditions required to meet for discharge into low-pressure side. (See clause 6.3.6.2) It was decided that C. Turylo would work with N Panabaker to clear editorial changes.

## **Adjournment**

20. Meeting was adjourned after proposal for the next meeting on August 8-12, 2005 at Delta Hotel, Saskatoon SK was accepted.

Attendees: All Chief Inspectors from provinces and territories, Members of Technical Committee from the industry and guests. Representatives from BC and Newfoundland, PEI, NB and Yukon as well as some industry representatives were absent.

#### Organizational items

1. The Chair, Tim Slimmon of TransCanada Pipelines Ltd., Calgary called the meeting to order and welcome remarks were made by the Chair on behalf of B51 and by Bill Bachellier on behalf of the Government of Nunavut territory.
2. Ken Lau held proxy for M. Bishop of BC and Bill Grant was an alternate for Bob Lojk of CNSC.
3. Several items were added to the agenda, which was then adopted
4. Membership was reviewed. The following changes were noted:
  - a. Kamal Mousfi of Factory Mutual retired; a letter to recognize him to be sent
  - b. S. Katz changed from RA to voting member as GI (general interest)
  - c. M. Bishop of BC and B.Cavan of HRDC are new members (A Higgins retired)
  - d. Dr. F Jeglic is a new associate member
5. Dr. Lau and S. Katz were the CSA award recipients for 2004
6. MOM from August 2003 Fredericton meeting was approved.

#### 2003 Task items

7. Last year task list was discussed
  - a. B51 terms of reference document to be issued in September – Done
  - b. Electronic copy errata
  - c. French edition published in march 2004
  - d. Interested members wishing to be part of ISO TC11 to put forward their names
  - e. Registering and approval of category G fitting to return to ACI for directions
  - f. Miniature Pressure vessels issue to go back to ACI for review
  - g. Safety bulletin for dealing with small CT type air receivers to be developed by B51 TC

#### B51-2003 Issues

8. A B51 5-year work plan was proposed to be developed by B51 executive committee
9. Hydrogen requirements
  - a. Need for Hydrogen standards. ACI strongly recommended that the rules for hydrogen be included in B51
  - b. S. Katz made a presentation outlining the necessity of including H2 requirements in B51.
  - c. Projects are happening fast, hydrogen villages and highways are planned for BC.
  - d. M. Kotb noted with some frustration that BNQ were charged with developing the H2 standard and see no reason why this cannot be done.
  - e. Other members felt that B51 should take the lead
  - f. Motion was carried out to allow CSA top move ahead to include hydrogen requirements in part 2 and 3 of B51 by 20 for, 6 against.

## 10. Application of B51

### **Question:**

B51 does not apply to boilers, pressure vessels, pressure piping, and fittings when the Acts, Regulations or Ordinances contain exemptions that would exempt them from such Acts, Regulations or Ordinances?

### **CSA proposed answer:**

Yes, it is the intention of CSA B51 to apply to all boilers, pressure vessels and pressure piping with the exception of those exempted by the Acts, Regulations and Ordinances. Where one or more statute applies, an exemption under one statute may not negate the requirements under any other applicable statute.

## **Subcommittees reports**

11. Ken Lau for the ASME committee reported several changes that will come out in 2004 edition.
  - a. Metric system is coming to ASME 2004 edition
  - b. Section 2D will still have both units in two separate books
  - c. Design will have to be in one set of units; no conversions allowed.
  - d. Section VIII DIV 1 will have a non-mandatory section regarding quick opening
  - e. Mandatory use of part UHX for H/E calculations
  - f. New Section XII Rules for Construction and Continued Service of Transport Tanks, published
  - g. System installation rules in a Non-mandatory appendix M will allow for some special installations. One of them being quite important is a stop valve on the relief line on Safety Valves
12. Robert Barnes reported on the current activities of ISO TC 11 and possible connections with B51 TC. Some things to be noted:
  - a. Reciprocal recognition
  - b. Potential for B51 to be a recognized standard. Manufacturers may build to any recognized STD.
  - c. Removal of trade barriers
13. Madiha Kotb reported on the perennial problems with the central registration of fittings that is again stalled. After submitting the final proposal to National Public Safety Advisory Council (NPSAC) the Task Force was advised by external lawyers that this might be in conflict with the Competition Act.
14. ACI liaison committee report by M Kotb and B. McWhirtet
  - a. The ACI TC was removed from being a member of B51 subcommittee. ACI will communicate with B51 directly.
  - b. Several other technical issues in works
15. Subcommittee on Pressure vessels by K. Lau reported no further developments
16. Subcommittee on Boiler and related components by Cathy Turylo reported on several items related to B51 provisions:
  - a. Use of 3-way- valve LWCO under Clause 6.3.2.2– no decision
  - b. Add a statement at the end of clause 6.3.4.3 to prescribe minimum 12” clearance between floor and the bottom of a vessel or boiler with an openingAlso reported on ASME developments
17. Editorial subcommittee by Chuck Castle did not meet. Members were invited to submit any editorial comments on B51-03 to C. Castle.
18. Liaison with Z662 Oil and Gas Pipeline Systems. Bob McWhirter reported on concerns regarding bleeding valves that are likely to plug up do to the properties of the contents and on steam distribution lines that require larger lines than presently available in the standard.
19. Subcommittee on clause 4, 5, 8,11, and Annex D dealt with several items related with questions from B51 users.
  - a. One important item related with the frequency of maintenance for Safety Valves. A new table was presented to replace the one adopted in Edmonton meeting
  - b. A safety bulletin on air receivers will be developed. This will also deal with propane cylinders.
20. Various subcommittees membership defined

### **New Business**

21. Report on status of adoption of B51-03 through provinces and territories. At the time of the meeting most provinces and territories have not adopted the new B51-03.
22. Data reports; a new hold –harmless clause will be introduced in figures in Annex D and sent for letter ballot
23. A motion to make Annex H from informative to mandatory was made by Paul Sterescu and seconded by Bill Grant. As a consequence I've been put in charge with chairing a group that will put all this together and present to TC of B51.

### **Adjournment**

24. Meeting was adjourned. Location of 2005 meeting is Delta Bessborough on Aug 11, 2005 in Saskatoon.