Boilers & Pressure Vessels Code Adoption 2025 Summary

Amendments to Boilers & Pressure Vessels Code Adoption Document (CAD) 2025

TSSA is proposing to amend the BPV Code Adoption Document. The BPV CAD is adopted by reference in O. Reg 220/01 Boilers and Pressure Vessels. The CAD adopts two main national safety codes into regulation. This amendment covers the adoption of CSA B51. This CAD was last updated and published in August 2024 by adopting CSA B52:23.

National codes

The following codes are being adopted by the CAD:

- CSA B51 (2024 Edition) Boilers and Pressure Vessel, and pressure piping code by Canadian Standards Association.

Summary of Key Changes

The summary below highlights the notable changes from the last update of the BPV CAD:

Ontario Specific Amendments Summary

The chart below provides a summary of the Ontario Specific Amendments (OSAs) only for Section 1 of the CAD:

BPV Code Adoption Document (Section 1 only)				
OSAs in 2024 CAD	**OSAs removed**	**New OSAs**	**Total OSAs**	**Net Change**
37	13	9	33	-4

Summary of Changes:

Since the CSA B51 (2024 edition) has been revised and all clauses have been rearranged, the section numbers in the CAD as result are also revised.

OSA additions:

- **Section 1.2,** clause 1.2b of the code is revoked and replaced with revised requirements
- **Section 1.13,** new code clauses of 5.1.1.8 Boilers and high-energy steam piping systems in creep-fatigue service & 5.1.1.9 Construction and installation requirements for boilers and HES piping systems in cyclic service are revised and merged into one clause.
- **Section 1.21 & 1.22,** code clauses 5.2.7.1 and 5.2.7.2 are revoked and alternative requirements are proposed as in B52.
- **Section 1.23,** code clause 5.2.7.3 is substituted to include ASME code and CSA B52 requirements.
- **Section 1.24,** all code clauses that referred to pervious Part 3 relating to Fuel Safety is revoked.
- **Section 1.27,** clause 5.4.1 of the code is revised to add additional requirements in Ontario.

- **Section 1.28,** code clause 6.1.2 is revised to include design registration and TSSA specific submission requirements
- **Section 1.31 and 1.33,** code clauses 6.2.6.1, 6.2.6.2 & 6.3.7.1, 6.3.7.2 are revoked to include compliance with the applicable codes of construction
- **Section 1.57,** Annex G is revoked

Clarification additions:

- **Section 1.1,** adds clarification about the scope of the code
- **Section 1.14,** code clause 5.1.1.10 is amended to add clarification on not overriding minimum periodic inspection cycle
- **Section 1.20,** code clause 5.2.4.13 adds owner's responsibility on utilization of properly design blowoff vessel

Revisions:
Following sections have been revised.

- **Section 1.3,** references have been revised to include reference publications adopted by the revised CAD.
- **Section 1.4,** definitions have been revised to update definitions of authorized inspection body, revoke definition of external and internal audit, and add new definition for hydrogen electrolyzers.
- **Section 1.5,** the note is revised to update the referenced information. (code clause 4.1.1.2)
- **Section 1.9** is revised to update the information required for item a). (code clause 4.1.3.1)
- **Section 1.34** is revised to include updated references (code clause 6.4.1)
- **Section 1.45** is revised to include additional requirements (code clause 7.4.4.1.3)
- **Section 1.79,** Annex I is revoked with conditions.
- **Section 4** is revised to include additional provisions and updated references
- **Section 5** is revised to add hydrogen electrolyzers' periodic inspection cycle; add failed ROI submission requirements; update record of inspection items as per the BPV Portal, and some revisions to remove redundancy with regulation.
- **Section 8** is revised to improve language clarity
- **Section 9** is revised to add updated requirements

Deletions: (Sections here refer to sections of the 2024 version of the BPV CAD, and B51-19).

- **Section 1.9,** amendment o code clause 4.4.2 is deleted
- **Section 1.19,** amendment to code clause 4.10.1.2 is deleted
- **Section 1.31,** amendment to code clause 8.6 is deleted
- **Section 1.5** amendment to code clause 4.2.1 is deleted

- **Section 1.6** amendment to clause 4.2.3 is deleted
- **Section 1.8** amendment to clause 4.3.4 is deleted
- **Section 1.24** amendment to clause 4.14 is deleted
- **Section 1.37** amendment to clause 13.1 Note 1 is deleted
- **Section 1.71** reference to Annex A is deleted
- **Section 1.80** reference to Annex J is deleted
- **Section 1.81** reference to Annex K is deleted
- **Section 1.82** reference to Annex L is deleted
- **Section 1.52** reference to Part 2 is deleted
- **Section 1.53** reference to Part 3 is deleted