Amendments to the Boilers and Pressure Vessels

Code Adoption Document (CAD) 2020

TSSA has completed an online consultation on the Code Adoption Document (CAD) amendments for the Boilers and Pressure Vessels (BPV) Safety Program. The CAD will be published on December 1st, 2020 and effective February 1st, 2021.

The CAD is adopted by reference in Ontario Regulation 220/01 (Boilers and Pressure Vessels). TSSA will adopt the latest edition of the B51 code that was published in 2019, the latest edition of the B52 code that was published in 2018, and the N285 code that was published in 2017. All were published by the Canadian Standards Association (CSA).

Summary of Consultation

TSSA would like to thank all individuals who participated in the consultation. There were 313 visitors to the consultation web page, 99 visitors reviewed or downloaded the attached documents and five individuals submitted text responses (via the web page and email). The feedback from the consultation mostly proposed improving the clarity in the language of the CAD.

An example of the feedback TSSA received asked why non-mandatory annexes are stated in the CAD as not adopted. The CAD must explicitly state what is enforceable and what is not. The other consultation feedback focused on operational comments related to the TSSA Boilers and Pressure Vessels Program.

Based on the comments received, TSSA is making four minor changes to the BPV CAD to improve its clarity. These changes include clarifying two references to publication names, removing a redundancy, and adding an explanatory note for clarity (e.g. this note is not a part of the CAD text but it provides additional information and guidance).

The consultation summary will remain on the website until August 1st, 2021.

Please see the published BPV CAD here. The BPV CAD will come into effect February 1st, 2021.

Code Adoption Summary (included in the consultation)

Codes adopted	Publication date	Overview of changes
B51	2019	Addition of definitions, clauses, and an Annex (L) relating to high energy steam piping systems
B52	2018	Addition of a definition for ‘mechanical joint’ (Clause 3.1)
N285.0/N285.6	2017	Addition of Annex K and editorial and formatting changes

Ontario Specific Amendments Summary

The chart below highlights that there are no new Ontario specific amendments being proposed. Four existing amendments are carried forward into the published CAD.

CAD	Existing Ontario Specific amendments	New Ontario specific amendments?
2018 Version	4	None
2020 Version	4	
Net change	0	

National Code Changes

B51:2019

Key changes to the Boiler, Pressure Vessel, and Pressure Piping Code from 2014 include:

- Addition of the following definitions: “high-energy steam (HES) piping systems” and “mechanical joint” (Clause 3)
- Addition of the following:
  - Clause 12.11: pressure relief valves (PRVs) (Clause 12.11)
  - Clause 13.4: high-energy steam (HES) piping system
  - Annex L: provides information on HES piping system and guidance for periodic inspections

The full list of changes from the 2014 edition of B51 code to the 2019 edition can be found here on CSA Group’s website (please click “Preface/Scope” tab in the menu).

There are four Ontario specific amendments that will be carried forward.

B52:2018

Key changes to the Mechanical Refrigeration Code from 2013 include:

- Formatting and editorial changes
- Addition of a definition for “mechanical joint” (Clause 3.1)

The full list of changes from 2013 edition of B52 code to the 2018 edition can be found here on CSA Group’s website (please click “Preface/Scope” tab in the menu).

There are no Ontario specific amendments being proposed in these CAD amendments.

N285.0/N285.6:2017

Key changes to the CANDU Nuclear Powerplants from 2012 include:

- Formatting and editorial changes
- Addition of Annex K: removes the case-by-case regulatory approval for the generic application of specific American Society of mechanical Engineers (ASME) code cases

There are no Ontario specific amendments being proposed in these CAD amendments.