



Amendments to the Gaseous Fuels Code Adoption Document (CAD) 2021

TSSA has completed an online consultation on the Gaseous Fuels Code Adoption Document (CAD) amendments.

The CAD is published on March 1st, 2021 and effective May 1st, 2021.

The CAD is adopted by reference in Ontario Regulation 212/01 (Gaseous Fuels). TSSA is adopting the latest edition of the B149 series of codes published in 2020 by the Canadian Standards Association (CSA).

This CAD also adopts four TSSA codes: the Field Approval Code (FAC), the Digester, Landfill & Biogas Approvals Code (DLBC), the High Pressure Piping Code (HPPC), and the Mobile Food Service Equipment Code (MFSEC).

Summary of Consultation

TSSA would like to thank all individuals who participated in the consultation. There were 376 visitors to the consultation web page, 111 visitors reviewed or downloaded the attached documents and nine individuals submitted text responses (via the web page and email).

TSSA is publishing the Gaseous Fuels' CAD with two minor changes to the CAD and three minor changes to the DLBC based on the feedback from the consultation. In the CAD, clause 1.14 and clause 1.20 have been edited to improve clarity. In the DLBC, clause 18.1.5 has been re-labeled to 18.1.3, clause 18.9.7(c) was identified as redundant and removed, and clause 27.8.5 has been edited for clarity.

TSSA received five comments that would require adding additional Ontario specific amendments to the CAD. However, in keeping with TSSA's approach to reduce Ontario specific amendments these suggested changes will not be included in this CAD. Instead, TSSA encourages all individuals who proposed Ontario specific amendments in this consultation to pursue their proposed changes at the national committee level.

This consultation summary will remain on the website until November 1st, 2021.

Please see the published Gaseous Fuels' CAD [here](#).

Code Adoption Summary (included in the consultation)

The summary below highlights the notable changes from the latest editions of the codes that affect the safe operation of gaseous fuels equipment.

Codes adopted	Publication date	Overview of changes
CSA B149.1 (Natural gas and propane installation code)	2020	<ul style="list-style-type: none">• Added requirements for cylinder storage• Added requirements for pressure regulators• Updated requirements for purging of gas piping systems after leak testing
TSSA-FAC (Field Approval Code)	2020	<ul style="list-style-type: none">• Adopts the 2020 edition of CSA B149.3 code• Adopts the 2019 edition of NFPA 85 & NFPA 86 standards



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TSSA-MFSEC (Mobile Food Service Equipment Code)	2020	<ul style="list-style-type: none"> Adopts the 2020 edition of CSA B149.3 code Additional details, guidance, and specific technical specifications on requirements Additional requirements for “portable carts” Additional requirements regarding MFSE operations near generators
CSA B149.3 (Adopted by reference in FAC & MFSEC)	2020	<ul style="list-style-type: none"> Updated requirements regarding pilot burners Updated requirements for liquid propane valve trains Updated requirements for multi-fuel burners Updated requirements for safety controls
TSSA-Digester, Landfill & Biogas Approvals Code	2020	<ul style="list-style-type: none"> Adopts the 2020 edition of CSA B149.6 code Annex D of B149.6 is now mandatory part of the code Removed various requirements that were included in B149.6-20
CSA B149.6 (Adopted by reference in DLBC)	2020	<ul style="list-style-type: none"> Removed “installation at landfills upstream of the main inlet valve on the vacuum side of the blower” from the code scope New definitions added (e.g. qualified personnel, relief device) Testing method for membrane gasholders used in biogas installation has been modified
TSSA-High Pressure Piping Code	2020	<ul style="list-style-type: none"> Minor editorial changes Tie-in closure examination method requirements updated

The full list of changes from the 2015 edition of B149 series code to the 2020 edition can be found on CSA Group’s website: [B149.1](#), [B149.3](#), [B149.5](#), & [B149.6](#) (please click “Preface/Scope” tab in the menu).

Ontario Specific Amendments Summary

The chart below summarizes the existing and new Ontario specific amendments to the national codes being proposed.

Gaseous Fuels CAD	Existing Ontario-specific amendments	New Ontario-specific amendments
2017 Version	56	Clauses 1.10, 1.31, 1.52
2020 Version	55	
Net change	-1	

TSSA has removed four Ontario-specific amendments in the Gaseous Fuels CAD and added three new amendments. In total 55 Ontario-specific changes will continue to be enforced. Below is the change log.



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Removed (*Sections here refer to sections of the 2017 version of CAD)

- **Clause 1.1** – Removed additional scope reference to “propane used as a refrigerant” because this requirement was uploaded to the national code
- **Clause 1.17** – Removed Ontario amendments to Clause 6.2.3 of B149.1-15 because B149.1-20 now addresses this issue.
- **Clause 1.44** – Removed Ontario amendments to Clause 8.10.13 of B149.1-15 because B149.1-20 now addresses this issue.
- **Annex J** – Removed Ontario-specific requirements regarding operation of appliances and cylinders at shows, exhibitions, or other similar events because this annex has been uploaded to the national code.

Added (*Sections here refer to sections of the 2020 version of CAD)

- **Clause 1.10** – Removed 4.7.4 of B149.1-20 to eliminate the conflict with 4.7.3 (as per CAD clause 1.9)
- **Clause 1.31** – Amended 7.13.1 of B149.1-20 to clarify supports required for central furnaces
- **Clause 1.50** – Clarifies the annexes enforced under the 2020 CAD