



# Oil & Gas Pipeline Systems Code Adoption Document (2024) Consultation Summary

## Introduction

TSSA's Fuels Safety Program has adopted a series of codes into regulation. The Oil & Gas Pipeline Systems Code Adoption Document (Pipeline CAD) has adopted by reference in O. Reg 210/01 a series of national safety codes into regulation. This CAD was last updated and published on December 8, 2020 (Ref No. FS-253-20).

TSSA is moving in a direction to harmonize its code requirements with other jurisdictions. This means less Ontario-specific requirements. The CAD will adopt the latest version of the following codes:

- CSA Z662 (2023 Edition) – Oil and Gas Pipeline Systems published by the Canadian Standards Association group (CSA);
- CSA Z246.1 (2021 Edition) – Security Management for Petroleum and Natural Gas Industry Systems published by CSA;
- CSA Z247 (2015 Edition, reaffirmed in 2020) – Damage Prevention for the Protection of Underground Infrastructure published by CSA.

A full list of the changes from previous editions for CSA codes can be found on CSA Group's website under the "Preface/Scope" section.

## Summary of Consultation

TSSA has completed an online consultation on the draft 2024 Pipeline CAD. The consultation was launched on June 3, 2024, and remained open for a 30-day period. The consultations closed on July 3.

TSSA would like to thank all the individuals who participated in the consultation.

| Pipeline CAD Consultation Highlights |   |   |
|--------------------------------------|---|---|
| Visitors to consultation page        | Informed Participants (reviewed/downloaded documents) | Engaged Participants (Submitted Feedback) |
| ~330                                 | ~96   | ~16                                       |

There were more than 330 visitors to the Engage TSSA Platform website. Approximately 96 participants reviewed or downloaded the attached documents, and 16 individuals submitted responses to the survey via the Engage TSSA platform.

In general, the feedback received from participants was supportive of the changes in the draft Pipeline CAD. One theme from the comments focused on the protection of source water locations and called for the strengthening of the requirements in the CAD. Given that environmental studies are required for the construction of any new pipeline and that operation and maintenance requirements in the code are robust and audited for compliance by TSSA, no change to the CAD is being made at this time.



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## Consultation Summary

Additional comments focused on issues not directly tied to the CAD. Typographical and administrative edits were suggested and addressed in the final version. The outcome of the consultation resulted in no changes to the number of Ontario Specific Amendments (OSAs) in the Pipeline Systems Code Adoption Document.

### Overview of CAD Changes

| Oil & Gas Pipeline Systems Code Adoption Document |                  |            |          |
|---|------------------|------------|----------|
| OSAs in 2020 CAD                                  | OSAs in 2024 CAD | Net Change | New OSAs |
| 19  | 14               | -5         | 0        |

- 5 out of 19 Ontario-specific amendments from the 2020 version have been removed.
- There are no new Ontario-specific amendments added to the 2024 version of the CAD.
- In total, 14 Ontario amendments will continue to be enforced.

Appendix A of this document includes a summary outlining the key changes between the 2020 and 2024 CAD.

### Publication & Effective Date

The CAD will be published on August 6, 2024, and effective 60 days after the publication date on October 5, 2024.



## **Appendix A – Oil & Gas Pipeline Systems CAD 2024: Summary of Change**

### **Amendments to Oil & Gas Pipeline Systems Adoption Document (CAD) 2024**

TSSA's Fuels Safety Program is proposing to adopt a series of codes into regulation. The Oil & Gas Pipeline Systems CAD has adopted by reference in O. Reg 210/01 a series of national safety codes into regulation. This CAD was last updated and published on December 8, 2020 (Ref No. FS-253-20).

#### **National codes**

TSSA is moving in a direction to harmonize its code requirements with other jurisdictions. This means less Ontario-specific requirements. The following outlines the various national codes adopted by the CAD:

- CSA Z662 (2023 Edition) – Oil and Gas Pipeline Systems published by the Canadian Standards Association group (CSA);
- CSA Z246.1 (2021 Edition) – Security Management for Petroleum and Natural Gas Industry Systems;
- CSA Z247 (2015 Edition, reaffirmed in 2020) – Damage Prevention for the Protection of Underground Infrastructure published by the Canadian Standards Association group (CSA);

#### **Summary of Key Changes**

The summary below highlights the notable changes from the last update of the Oil & Gas Pipeline Systems CAD in 2020:

##### **Overview of Key Changes**

- The scope of CSA Z662-23 now applies to hydrogen and hydrogen blends;
- Z662-23 permits pressure design in accordance with Annex C (Limit states design of onshore pipelines);
- Z662-23 adds content to deal with cross-bore mitigation;
- Z662-23 adds new requirements for coated pipe in extended storage;
- Z662-23 introduces new requirements for induction and cold bends; and
- Z246.1-21 has been updated to include new provisions related to cybersecurity.

A full list of changes from previous editions for CSA codes can be found on [CSA Group's website](#) under the "Preface/Scope" section.

#### **Ontario Specific Amendments Summary**



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## Consultation Summary

The chart below provides a summary of the Ontario Specific Amendments (OSAs):

| Oil & Gas Pipeline Systems Code Adoption Document |                  |            |          |
|---|------------------|------------|----------|
| OSAs in 2020 CAD                                  | OSAs in 2024 CAD | Net Change | New OSAs |
| 19  | 14               | -5         | 0        |

In this version of CAD, TSSA has removed 5 of the 19 Ontario-specific amendments from the 2020 version of the Oil & Gas Pipeline Systems CAD. TSSA has not added any new amendments. In total 14 Ontario-specific amendments continue to be enforced in the 2024 edition of the Oil & Pipeline Systems CAD.

### Summary of Changes:

**Deletions** (\*Sections here refer to sections of the 2020 version of Oil & Gas Pipeline Systems CAD).

- Section 2.1 – Amendment to the definition of ground disturbance in CSA Z247-15
- Section 3.4 – Amendment to s. 3.3 of CSA Z662-19
- Section 3.14 - Amendment to s. 12.4.15.6 of CSA Z662-19
- Section 3.15 – Amendment to s. 12.4.15 of CSA Z662-19
- Section 6.1 & 6.2