

Changes to Ontario's Boilers and Pressure Vessels Regulation

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Putting Public Safety First



Key Drivers

- Align authorization of pressure vessels to regulatory requirements
- Data challenges impacting regulators ability to make evidence-based decisions
- Clarity regarding inspection requirements for piping and fittings
- Regulatory oversight for insurers and third-party inspection providers
- Funding for TSSA's pressure vessels safety program

Who is Affected

1. Owners/operators of boilers and pressure vessels
2. Insurers who underwrite boiler and machinery insurance
3. Authorized third-party inspection providers

Changes Overview - Regulation

- Owners/operators of pressure vessel equipment are now required to apply for a certificate of inspection (COI) as legal authorization to operate a pressure vessel in Ontario
- The COI will be issued by TSSA to the owner/operator after a passed periodic inspection and on receipt of a Record of Inspection (ROI)
- Insurers and third-party inspection providers are required to submit the ROI to TSSA after conducting a periodic inspection
- TSSA will maintain a database of pressure vessels using the ROI information submitted by insurers and third-party inspection providers
- Owners/operators of pressure vessels will pay a COI fee to TSSA
- Insurers and third-party inspection providers are subject to triennial audit

Changes Overview – Code Adoption Document

- **Section 1.0 – CSA B51**
 - Changes to address repair/alteration procedures and repair inspections for boiler tube replacements – [CAD s.1.11](#)
 - Update exemptions
 - a) Flexible hoses & portable air piping used in mines – [CAD s.1.28](#)
 - b) Buried water piping – [CAD s.1.29](#)
- **Section 5.0 – Periodic Inspection**
 - Section revised to include ROI and COI requirements for BPVs that require periodic inspection – [CAD s.5.3](#)
 - Revision also includes requirements for notification of changes to the operation of a boiler or pressure vessel [CAD s.5.5](#)

Changes Overview – Code Adoption Document

- **Section 8.0 – Applications for Ontario Certificate of Competency**
 - Section revised to include education and experience requirements for applications for the certificates of competency – [CAD s.8.2](#)
- **New sections**
 - **9.0:** Triennial audit and reporting requirements for insurers and third-party inspection providers [CAD s.9.2](#)
 - **4.0:** Clarity regarding piping inspections and first/installation inspection for boilers, pressure vessels, piping and fittings – [CAD s.4.0](#)

Pressure Vessel Authorization Process

1. Inspector Submits ROI

- Inspector uploads ROI information onto TSSA's BPV portal
- Requires an account to be set up
- ROI must be submitted in prescribed format

2. Owner Makes Payment

- Owner logs onto portal and makes payment for their COI
- Requires an owner account
- Both online and invoice payments available

3. TSSA Issues COI

- Downloadable COIs available through owner online accounts

ROI Template

1. TSSA ID
2. Installation Address - Postal Code Only
3. MAWP (psi)
4. Owner / Operator Name
5. Insurer Name
6. Inspection Agency
7. Inspector Name
8. TSSA Issued Inspector Certificate Number (COC)
9. Inspection Date
10. Inspection Type
11. Inspection Status
12. NB Violation Category



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Milestones

- BPV portal launch – July 1, 2018
- 95% of insurer data loaded into system
- User accounts set up for all insurers and third-party inspection providers
- 8000 plus customer accounts set-up
- 1600 plus ROI submissions

<https://eservices.tssa.org/SignIn>

Areas of Improvement

- **Data integrity – ROI submissions, bulk uploads**
 - Errors due to non-conformity to ROI submission format
 - Mismatched datapoints
 - Missing data points
- **System configuration**
 - For example, date format YYYY-MM-DD vs DD-MM-YYYY
 - MAWP as a numerical value only, no “psi” units
 - No space after last digit of postal code
- **Stakeholder awareness**
 - *Clarity of scope*
 - *Owner/operator obligations*
 - *Insurer obligations*

Stakeholder Obligations

- Insurers and Inspection Agencies
 - *Improve accuracy in ROI data*
- In service Inspectors
 - *Improve accuracy in ROI submissions*
 - *Inspectors as ambassadors of the regulation*
- Device Owners
 - Improve awareness of owner/operator obligations
 - *Validate device information submitted by insurers*
- TSSA
 - *Continuous improvement of system efficiency*

Useful Resources

- The new [BPV Regulation](#) and [Code Adoption Document](#) (CAD)
- The [BPV COI Portal](#)
- How to [create an owner/insurer account](#)
- How to [obtain your COI](#)
- [Owner/operator user guide](#)
- [Insurer user guide](#)
- COI and triennial audit [fee schedule](#)

Thank You

Appreciate your attention

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