

## Inspection and Technical Services

### Gas Equipment Bulletin

### Installation of propane tanks in Manitoba with more than 10,000 USWG (37, 900L) total aggregate capacity

Revision Date: Nov 28, 2023  
ITS 22-002

The intent of this bulletin is to provide clarification to consumers, propane suppliers and gas fitters respecting requirements and responsibilities under the [Manitoba Gas and Oil Burner Act](#) and the [Manitoba Steam and Pressure Plants Act](#) for installations of propane tanks with a capacity of more than 10,000 USWG (37,900 L) total aggregate water capacity in Manitoba.

Any proposal to install propane tanks with a capacity of more than 10,000 USWG (37, 900 L) total aggregate water capacity in Manitoba shall comply with the applicable Acts, Regulations and Codes.

Installation requirements for large propane vessels in Manitoba includes but is not limited to Manitoba Gas and Oil Burner Act and Regulation, Manitoba Steam and Pressure Plants Act and Regulation, CSA B149.2: Propane storage and handling code, CSA B51: Boiler, pressure vessel, and pressure piping code, and Environmental Emergency Regulations.

It is important to ensure that the installation addresses safety of personnel, residents and public, environment process, the integrity of the storage tank, any connection to other equipment, and protection of the tank from all of the potential hazards including, but not limiting, to those specified in the Acts, Regulations and Codes. The Codes shall be used as a minimum requirement and there may be times that additional measures are needed to address potential hazards.

**The Manitoba Gas and Oil Burner Regulation** adopts *CSA B149.2: Propane storage and handling code* as a minimum requirement.

**CSA B149.2: Propane storage and handling code** provides the following definition of the term Tank.

*Tank (with respect to propane storage) as the class of container for the storage of propane, designed and fabricated in accordance with CSA B51.*

Therefore,

- Propane tanks are pressure vessels in accordance with CSA B51, which is adopted under the Steam and Pressure Plants Act and Regulation. Propane tanks also meet the definitions found within the Manitoba Steam and Pressure Plants Act and Regulation and therefore all the requirements are applicable.
- A **risk and safety management plan (RSMP)** prepared by qualified personnel that includes valid justification for the need to such large tank, all four primary elements: hazard analysis, risk assessment, risk mitigation and control, and emergency response and preparedness (CSA B149.2 Propane storage and handling code) shall be submitted to the ITS Gas and Oil Inspection Program Manager for review and approval by ITS prior to start of any work of installation.

*N.B. Refer CSA B149.2: Clause 7.22 and Annex L for more detail*

**The Manitoba Steam and Pressure Plants Act and Regulation** governs the design, fabrication, installation, operation, repair and inspection of pressure equipment in Manitoba. The regulation adopts various codes, standards and specifications as requirements. The requirements described in these codes, standards and specifications, are the minimum requirements that installers/fitters must comply with including requirements for pressure equipment design registration contained within the *CSA B51: Boiler, Pressure Vessel, and Pressure Piping Code*;

#### **CSA B51: Boiler, Pressure Vessel, and Pressure Piping Code**

All pressure vessels require a CRN designated for Manitoba prior to installation. CSA B51 contains administrative requirements for registering drawings, calculations, specifications and Data Reports with the jurisdictional authority.

To obtain a CRN for your tank, please refer to bulletin ITS 20-003 – Electronic Submissions Guide for more information on required documentation and submission requirements.

Designs may be submitted to [QASupport@gov.mb.ca](mailto:QASupport@gov.mb.ca)

#### **Environmental Emergency Regulations-2019**

To address the prevention of, preparedness for, response to and recovery from environmental emergencies caused by uncontrolled, unplanned or accidental releases, and to reduce any foreseeable likelihood of releases of toxic or other hazardous substances please refer to Environmental Emergency Regulations, 2019.

Refer to: <https://www.canada.ca/en/environment-climate-change/services/environmental-emergencies-program/regulations/technical-guidelines.html>

**Note: There may be other Jurisdictions involved with the installation of large propane tanks such as RM office, Fire Department, Work Place Health and Safety and Environmental agencies. The applicable regulatory authorities shall be consulted.**