

Liquefied Petroleum Gas Storage Vessel Installations

PURPOSE

This bulletin has been jointly developed by Alberta Municipal Affairs, Safety Codes Council, and the Alberta Boilers Safety Association (ABSA) to inform the propane industry of the requirements associated with the installation of Liquefied Petroleum Gas (LPG) Storage Vessels in domestic and commercial applications.

DISCUSSION

1. ABSA shall be responsible for the design review and registration of all LPG vessels. New construction inspection of all LPG vessels built in Alberta shall be performed by ABSA Safety Codes Officers. ABSA Safety Codes Officers will also be involved when alterations or repairs to these pressure vessels are being considered.
2. For LPG storage vessels up to 10 cubic metre capacity in domestic and commercial use, the installation inspections will be carried out under the *Gas Code Regulation* by a Gas Group A Safety Codes Officers.

CODE REFERENCES

The installation inspections under the *Gas Code Regulation*, the CSA B149.1 *Natural gas and propane installation code*, and the CSA B149.2 *Propane storage and handling code* shall include but not be limited to the verification of:

- CSA B149.1 *Natural gas and propane installation code*
 - 4.3 Responsibilities of the installer
 - 5 Pressure controls
 - CSA B149.2 *Propane storage and handling code*
 - 7 Tank systems, filling plants, and refill centres
 - Location¹, with respect to property lines, buildings, adjacent tanks, etc.;
 - Protection from physical damage;
 - Fencing;
 - Posting of warning signs; and
 - Dispensing points and other applicable requirements
3. For LPG storage vessels over 10 cubic metre capacity in domestic and commercial use², initial inspections to be carried out by ABSA Safety Codes Officers. Installation inspection to

¹ Location distances for LPG vessel installations must comply with Federal requirements, if specified, in areas under Federal Jurisdiction.

Issue of this STANDATA is authorized by the
Gas Administrator and the Pressure Equipment Administrator

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be carried out under the *Gas Code Regulation* by Group A Gas Safety Codes Officers as indicated above.

ABSA initial inspections shall include verification of:

- Vessel nameplate information (CRN, design pressure, design temperature, etc.) against the Manufacturer's Data Report;
- Safety valve (size, capacity and code stamping);
- Manway requirements;
- Assignment and application of the Alberta Identification Number [(A) number];
- Entry to ABSA's boiler and pressure vessel registration database.

APPLICATION

All in-service tanks should be inspected by competent persons with training in tank inspection and typical tank defects and in the action to take when defects are found. The Canadian Propane Association offers this type of training.

INTERPRETATION

If propane suppliers are concerned about the status of a particular tank or tanks registration, they could contact the Alberta Municipal Affairs office, visit the Web site: www.municipalaffairs.alberta.ca/cp_index.cfm, and/or contact the local Alberta Boilers Safety Association (ABSA) office or visit the ABSA Web site: <http://www.absa.ca/> for further information.

² Commercial use shall include facilities where the storage vessels are used for vehicular fuel filling, fuel dispensing, commercial construction site usage, and all other fuel uses, but does not include propane when used as a feedstock in a petroleum refinery or chemical plant.