

### EMERGENCY SHUTDOWN SYSTEMS ON CONSTRUCTION SITES UTILIZING PROPANE STORAGE TANKS AND DIRECT FIRED VAPORIZERS

#### ISSUE:

Construction sites are often challenged by limited space on site for proper installation and servicing of propane storage tanks, vaporizers and fuel emergency shutdown systems. This limited space may result in unsafe conditions such as tripping hazards in varying conditions.

#### Background:

This variance is based on CSA B149.2-15 Code Clause 9.1.10. for the proposed corrections to the intent of the clause in the B149.2- 20, which have been supported by the CSA technical committee, the Interprovincial Gas Advisory Council, and supported by the Safety Codes Council, Gas Sub-council. The current wording is an impractical requirement for the placement of an emergency shutdown system activation device. The intent of the code change was to ensure the activation device was located at a reasonably safe place, in the event of an unplanned release of propane fuel or a fire at the vaporizer.

#### Variance:

This variance applies throughout the province of Alberta. Non-Compliance with this variance is an offence under the *Safety Codes Act*.

Section 6 of the Gas Code Regulation (**AR 111/2010**) states:

6 CSA Standard B149.2-15, *Natural Gas and Propane Installation Code*, published in August 2015 by the Canadian Standards Association is declared in force.

The Clause below, as referenced in the B149.2-15 Propane Storage and Handling Code shall be varied to read:

#### 9.1.10

An emergency shutdown system shall be installed in any tank system supplying propane to a direct fired vaporizer. The emergency shutdown system may be of the electrical, pneumatic or mechanical type or a combination thereof, and the means to activate the emergency shutdown system shall be located at least 25 ft. (7.6m) from the direct-fired vaporizer(s). The emergency shutdown system, when activated, shall initiate the shut-off of the liquid line at the tank location that is connected to the vaporizer.

This variance does not make or imply any assurance or guarantee with respect to life expectancy, durability or performance of equipment and materials.

Issue of this STANDATA is authorized by  
the Chief Gas Administrator

[Original Signed]  
Sidney Manning

Alberta  
Government