

# GAS SAFETY Variance



June 20, 2008

VAR-GAS-05-05 [rev 2]

File number 16570-G01

Identification of document.

**VARIANCE** (VAR-GAS-05-05 Dated June 27, 2005 Reaffirmed with updates)

Date of Issue.

June 27, 2008

To whom the variance is issued

Alberta Oil and Gas Industry for Gas-Fired Equipment used for Process Applications in Petroleum Refineries, Petrochemical Plants and Upstream Oil and Gas sites.

Subject of this Variance being issued.

Engineered Designs for Site Specific gas-fired process equipment.

Authority Under which the variance is being issued

**Under the authority of the Safety Codes Act, Chapter S-1 section 38(1).**

Municipal address and legal description of the property upon which the variance is being conducted.

## **PROVINCE WIDE VARIANCE**

Details of this Variance

Section 3 of the Gas Code Regulation (**AR 113/2005**) states:

3(1) No person shall manufacture, install, sell or offer for sale any equipment related to gas systems for use in Alberta unless it has been

- (a) certified by a certification body accredited by the Standards Council of Canada, or
- (b) inspected and tested and accepted by a certification body accredited by the Standards Council of Canada, and the equipment bears evidence of having been accepted in a manner authorized by the certification body.

Section 4 of the Gas Code Regulation (**AR 113/2005**) states:

4(1) In this section, "Code" means the National Standard of Canada, CSA-B149.1-05, *Natural Gas and Propane Installation Code*.

(2) Subject to the variations set out in this section, the National Standard of Canada, CSA-B149.1-05, *Natural Gas and Propane Installation Code*, is the code declared in force under the *Safety Codes Act* in respect of natural gas and propane systems.

4.1 The 2007 Supplement No. 1 to the National Standard of Canada, CSA-B149.1-05, *Natural Gas and Propane Installation Code* is declared in force under the *Safety Codes Act* in respect of natural gas and propane systems.



Issue of this STANDATA is authorized by  
the Administrator



**SAFETY CODES COUNCIL**

Carey LaRose

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Section 7 of the Gas Code Regulation (**AR 113/2005**) states:

7(1) In this section, "Code" means the National Standard of Canada, CSA-B149.2-05, *Propane Storage and Handling Code*.

(2) Subject to the variations set out in this section, the National Standard of Canada, CSA-B149.2-05, *Propane Storage and Handling Code*, is the code declared in force under the *Safety Codes Act* in respect of propane handling and storage.

**7.1** The 2007 Supplement No. 1 to the National Standard of Canada, CSA-B149.2-05, *Propane Storage and Handling Code* is declared in force under the *Safety Codes Act* in respect of propane storage and handling.

This variance applies to gas-fired equipment used for process applications in petroleum refineries, petrochemical plants and upstream oil and gas sites only. This variance is not applicable to gas-fired appliances installed in control rooms, warehouses, offices and other non-process buildings whether or not they are on the same site. The installation of Heating, Ventilation and Air-Conditioning (HVAC) gas-fired appliances in any of these areas shall be certified and permitted.

Designs, signed, sealed/stamped and dated by a Professional Engineer, for gas-fired equipment that is used for process applications only, may be accepted by a safety codes officer as an option to conformance with Codes and Standards adopted by the **Gas Code Regulation (AR 113/2005)** and the installation of process equipment does not need a permit in accordance with the **Permit Regulation (AR 204/2007)** provided the designs meet the following conditions:

- 1) The engineered designs are for
  - new non-certified process gas-fired equipment of all heat inputs for which there is no approved standard, or
  - the upgrading, altering, or relocating of existing process gas-fired equipment.
- 2) The designs of the Professional Engineer meet the intent of existing "Codes" and ensure safety of personnel and integrity of equipment;
- 3) All components are evaluated and accepted by a Professional Engineer for conformance with industry-recognized published standards, process and performance requirements, and accepted test reports or have a history of demonstrated successful performance;
- 4) The gas-fired process equipment displays a valid and permanent label (rating plate) and the equipment is appropriately documented with an Engineering Report describing the engineered design and stating the operational and Safety characteristics of the equipment;
- 5) All fuel gas piping systems are designed in accordance to applicable piping codes and installed under an approved Quality Assurance/Quality Control Program;

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- 6) All personnel performing the installations, system performance testing, start-up and commissioning operations, and maintenance are trained and competent in the tasks they perform and do the work under the direction of a Professional Engineer; and
- 7) The records are maintained by the owner regarding the installations covered by this variance and are made available to a Safety Codes Officer in the gas discipline on request, for review or evaluation at any time throughout the life of the specific installation.

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

**EXPIRY DATE**

To ensure that this variance is reviewed for ongoing relevancy and necessity, with the option that it may be reissued in its present or amended form following a review, this variance expires on **June 30, 2013**.

Identification of person  
issuing the Variance

*[Original Signed]*  
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Signature  
Carey LaRose, Gas Technical Administrator  
Certification No. S000474

Employer of Administrator

Alberta Municipal Affairs  
Public Safety Division: Safety Services

Procedure for submission of a variance

A signed copy of the variance will be submitted to:

Safety Codes Council  
1000, 10665 Jasper Avenue  
Edmonton, Alberta T5J 3S9

Advisement of Offence

**Non-Compliance with the instructions contained in this variance is an offence under the Safety Codes Act.**