Identification of document.

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

Date of Issue.

November 19, 2010

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 111/2010**) states:

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

(a) tested and certified by a certification body accredited by the Standards Council of Canada, or
(b) inspected 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 5 of the Gas Code Regulation (**AR 111/2010**) states:

5 CSA Standard B149.1-10, *Natural Gas and Propane Installation Code*, published in January 2010 by the Canadian Standards Association is declared in force with the variations specified in Schedule 1

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

6 CSA Standard B149.2-10, *Propane Storage and Handling Code*, published in January 2010 by the Canadian Standards Association is declared in force with the variations specified in Schedule 2

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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 111/2010**) 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]
Sidney Manning, Chief Plumbing & Gas Administrator/Inspector
Certification No. S112400

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.