

Appendix C: Commercial and Industrial Gas-fired Appliances and Equipment (normative)

C.1 Scope

C.1.1 This Appendix contains mandatory requirements applicable to Inspection Bodies (IBs) that evaluate commercial and industrial gas-fired appliances and equipment for safety and suitability, to any or all of the current versions of the following:

- CAN/CSA-B149.1 *Natural gas and propane installation code*
- CAN/CSA-B149.2 *Propane storage and handling code*
- CAN/CSA-B149.3 *Code for the field approval of fuel-related components on appliances and equipment*
- CSA C22.1 *Canadian Electrical Code, Part I; Safety Standard for Electrical Installations*
- CAN/BNQ 1784-000 *Canadian Hydrogen Installation Code*
- CSA B51 *Boiler, pressure vessel and pressure piping code*
- Variances or provincial deviations (such as VAR-GAS-05-05 [rev 2] *Gas Safety Variance on the application of CAN/CSA-B149-3.05, Alberta Municipal Affairs, Safety Codes Council*) as may be issued from time to time by the Provincial or Territorial Regulatory Authority
- Relevant requirements of the National Building Code of Canada and the National Fire Code of Canada.

C.1.2 This scope applies to one-of-a-kind and limited run commercial and industrial gas-fired appliances and equipment that may be designed for installation at a specific site or assembled on-site. The definition of “one-of-a-kind” and “limited run” shall be decided in consultation with the relevant Provincial or Territorial Regulatory Authority.

C.2 Inspection Label

C.2.1 Inspection labels shall be applied to inspected products that are found to be in conformity with the codes, variances and standards listed in Section C.1 above.

C.2.2 Inspection labels shall be applied directly to the inspected appliance or equipment by the IB. Labels shall not be left with the inspection client.

C.2.3 The format of inspection labels shall be as posted on the SCC Scope of Accreditation and as a minimum, labels shall contain the following information:

- A unique serial number which enables tracking inspected products
- A special inspection report number
- The statement “**Gas safety evaluation based on Canadian code requirements**” and “**Évaluation de la sécurité gazière basée sur les exigences des codes canadiens**”.
- IB’s name
- A clear statement in both official languages that the label represents the results of a single inspection and does not represent the results of a product certification.
- Any technical parameters as may be required by the governing standard(s)

C.2.4 Inspection labels shall be clearly distinguishable from any other label used for certification or inspection purposes outside the scope of this program.

C.2.5 As a final part of each inspection, the inspector shall assess operating conditions and predict the life cycle of the inspected equipment and its installation to facilitate appropriate label design. Depending on the environmental conditions this may involve selecting a suitable labelling material, selecting an appropriate labelling location and even, in special cases selecting special methods or enclosures for protecting the label from the operating environment.

C.2.6 The inspection body shall always instruct the inspection client of the differences between product inspection and product certification and shall inform the inspection client when product inspection is inappropriate.

C.3 Record Retention

C.3.1 The IB shall safely store all inspection records for the intended lifecycle of the product bearing the inspection label, as recommended by the manufacturer or designer plus five years, or as required by law, whichever is longer.

C.4 Inspection Personnel

C.4.1 The IB shall ensure its inspectors are registered professional engineers who are competent in the design, operation and safety inspection of commercial and industrial gas-fired appliances and equipment, as determined by the governing engineering regulatory association.

C.4.2 The IB shall ensure that its inspectors demonstrate ability to apply knowledge and skills of inspection principles, procedures and techniques (described in 7.3.1a of ISO 19011), to enable the inspector to apply those appropriate to different inspections and ensure that all inspections are conducted in a consistent and systematic manner.

C.4.3 The Inspection Body shall ensure that inspectors demonstrate technical knowledge, skills and abilities to appropriately apply the codes, variances and standards listed in Section C.1 above.