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INTERPRETATION
Pressure Equipment Safety Regulation Section 14
Design Registration of Components used in
Mechanical Refrigeration Systems
Rated at 125 kW or less

This Information Bulletin replaces IB18-006, which has been withdrawn.

INTRODUCTION

This Information Bulletin provides compliance guidance regarding design registration of pressure equipment components used in mechanical refrigeration systems.

Section 14 of the *Pressure Equipment Safety Regulation* mandates design registration of pressure equipment that is to be used in Alberta. Section 6(b) of the *Pressure Equipment Safety Regulation* adopts CSA Standard B52, *Mechanical refrigeration code* (CSA B52).

Design registration is not required for pressure equipment components used in a refrigeration system having a refrigerant capacity not exceed 10.5 kilowatts that is exempt in accordance with Section 2(2)(r) of the *Pressure Equipment Exemption Order*.

CSA B52 Clause 5.2 provides an exemption from design registration for components used in refrigeration systems having a prime mover rating of 125 kW or less provided the specified conditions are met. CSA B52 Clauses 5.7.1 and 5.7.3 provide clarification that the design registration exemption may be applied to refrigerant piping, fittings, evaporator and condenser coils, and associated headers.

INTERPRETATION:

Design registration in accordance with Section 14 of the *Pressure Equipment Safety Regulation* is not mandatory for refrigerant piping, fittings, evaporator and condenser coils, and associated headers used in independent operating refrigeration systems that have a prime mover rating of 125 kW or less provided the following conditions are met.

1. The refrigerant piping, fittings, evaporator and condenser coils are installed in a system that has been tested and certified by an approved testing laboratory in accordance with CSA B52 Clause 5.2,

2. If more than one refrigeration system is installed in a single location, the systems shall be
    a. totally independent of each other and not connected with a common header or others means such that failure of one system will not impact on another system, or
    b. if interconnected, the total rating of all prime movers added together does not exceed 125 kW.

3. All other provisions of CSA B52 shall be complied with, including the total quantity of refrigerant per occupied space as provided for in Table 1, occupancy classification, the use of machinery room.

Design registration is mandatory for any refrigerant-containing pressure vessels (e.g., heat exchanger, refrigerant storage tank) used in the system.

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