INTERPRETATION IC 15-2022-11 OF
ANSI/ASHRAE STANDARD 15-2022
SAFETY STANDARD FOR REFRIGERATION SYSTEMS

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Reference: This request for interpretation refers to the requirements presented in ANSI/ASHRAE Standard 15-2022, Figures 7-1 and 7-2, Sections 7.3.4, 7.6.2.5 and 7.6.4 as well as Table 7-4, regarding requirements of mechanical ventilation and system refrigerant charge.

Background: Mechanical ventilation is listed as a possible method of mitigation (Section 7.6.2.5.c). Table 7-4 lists required ventilation rates that vary based upon the difference between system refrigerant charge and permissible refrigerant charge in a space (EDVC). Safety shutoff valves are listed as a possible method of mitigation (Section 7.6.2.5.e). Section 7.3.4 addresses how to determine the amount of system refrigerant charge that may leak into a space (releasable refrigerant charge, m_{rel}).

Interpretation #1: For A2L refrigeration systems, ASHRAE Standard 15 permits the use of **either** mechanical ventilation **or** safety shut off valves as a mitigation method if the system refrigerant charge exceeds the permissible refrigerant charge (EDVC).

Question: Is this Interpretation correct?

Answer: Yes

Comments: None

Interpretation #2: For A2L refrigeration systems, ASHRAE Standard 15 permits the use of **both** mechanical ventilation **and** safety shut off valves as mitigation methods if the system refrigerant charge exceeds the permissible refrigerant charge (EDVC).

Question: Is this Interpretation correct?

Answer: Yes

Comments: Section 7.3.4.1 indicates that mrel is the system refrigerant charge unless release mitigation controls are provided. Therefore in Section 7.6.4, you would replace ms with mrel.