



Elevator Safety Program - Technical Clarification

Equipment: Passenger/Freight Elevators & all other conveyance types	Topic: TC 18-03 Location of Elevator Equipment
December 21, 2018	#: 18-03 Code/Rule: ASME A17.1-2016/CSA B44-16, Section 2.8

Issue: In some instances, equipment associated with an elevator is being installed outside a machine or control room. Since this equipment is provided by the elevator contractor and maintained by the contractor, ideally it should be in the room with the other elevator equipment.

There may be conditions that necessitate some equipment to be located outside of a machine or control room, but these are not typical. Such conditions would only be encountered during alterations to existing equipment. Small machine rooms may not afford the space necessary to install related equipment (e.g. tank coolers or heaters, etc.). There should be no reason to have elevator equipment located outside the room or space for new installations except as may be permitted by code.

Background and Concerns: Where such items are not installed in the room with other elevator equipment, the location of these items could be readily accessible to unauthorized personnel or non-elevator personnel. This may present electrical and mechanical hazards to persons passing or working near the equipment. It is necessary to provide a means to prevent access or accidental contact by persons other than elevator personnel.

Clarification: No clarification is needed as the “action required” stipulates the conditions when items are located outside an elevator room or space.

Action Required: This only pertains to equipment being altered. Where site conditions will not allow all elevator equipment to be in a designated elevator equipment room/space, the following will be required at time of plan review:

1. Equipment that cannot be installed in the machine/control room due to insufficient space will be clearly identified on the layout drawings.
2. The equipment outside the room shall be clearly identified and its relative location to the elevator room shall be shown on the submittal drawings.
3. If equipment is provided with a cabinet, the cabinet it must be kept closed and locked.
4. Where a cabinet or other enclosure is not an integral part of the equipment, a permanent enclosure shall be provided around the equipment to prevent accidental contact and tampering.
 - a. The enclosure may be of expanded metal or similar construction, providing any openings will reject a ball 9.5 mm (.0375 in.) diameter.
 - b. The enclosure shall be provided with a means to access the equipment located therein.
 - c. Electrical clearances (NFPA 70 Art. 110.26(A)) and maintenance paths (see ASME A17.1/CSA B44, 2.7.2) shall be maintained where applicable.
 - d. Maintenance openings shall be hinged and kept closed and locked when not in use.
 - e. A sign shall be readily visible and securely attached on the enclosure that states, “Caution – Equipment Starts Automatically”.
 - f. To prevent encroachment of other materials, the floor on all open sides of the equipment enclosure shall be clearly marked: “Keep Area Clear”. The area shall extend not less than 600 mm (24 in.) from the enclosure.
 - g. The area directly over the equipment shall be provided with a minimum of 200 lx (19 fc) of illumination. The illumination levels shall be measured at floor level within 600 mm (24 in.) of the equipment and on the accessible sides of the enclosure.
 - h. Where required by NFPA 70, a disconnecting means shall be located within site of the device outside the machine/control room.

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Questions may be directed to:

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Reviewed by Technical Specialists