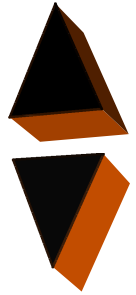




Elevator Safety Program

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Memo



Thursday, August 29, 2002

**TO: ELEVATOR CONTRACTORS
MANAGERS & SUPERVISORS**

**FROM: JAMES RUNYAN
CHIEF ELEVATOR INSPECTOR**

**SUBJECT: SHUNT TRIP DEVICES (Revised August 2002)
Based on ASME A17.1b, 1998 (Subject to change with later code editions)**

NEW INSTALLATIONS

A shunt trip device is required in all new installations where the machine room or the hoistway is sprinklered. (Sprinklers are to be installed according to NFPA 13). Effective 10/1/1999, shunt trip devices are required to be installed in the elevator machine room either in place of, or in conjunction with, the main line disconnect.

ALTERATIONS

A shunt trip device is required in elevator alterations to existing equipment, **only** when the existing disconnect(s) is altered or replaced (ref. Article 620-51) **and** the room is already sprinklered or in the process of being sprinklered.

A shunt trip is not required when sprinklers are to be installed in existing machine rooms or hoistways when no elevator alteration is planned. However, this constitutes an alteration to these spaces and therefore must comply with ASME Rules 1201.2 or 1203.1b and 1201.1, or 1203.1a respectively and NFPA 13. An elevator contractor's license is not required to install sprinkler systems in these spaces. A licensed elevator contractor should always be consulted when there is any alteration to the machinery spaces or hoistways.

TYPE

There is no specific code requirement for a specific design of a shunt trip device. It must function to disconnect main power to the controller prior to the application of water in the machine room or hoistway and must **only** function in response to a heat detector or flow sensor activation.

A composite shunt-trip-disconnect is an acceptable device. The composite device must be capable of acting independently as a shunt-trip (ASME Rule 102.2) and a main line disconnect (NEC Art. 620-51).

When a separate shunt trip device is provided, it is to be connected to the line side of the main line disconnect (see attached drawing).

Questions should be directed to (503) 373-1298.