

This is what started the Elevator and Fire Alarm Project

These requirements cannot be met by our current fire alarm, which in turn caused the fire alarm upgrade. Also the Elevator controls cannot be adapted to meet the code either. Any other info can be given to you by the Fire Marshal of the City of Pompano Beach.

Attached are excerpts from the NFPA 72 National Fire Alarm Code.

6.16.3.0 Elevator Recall for Fire Fighters' Service.

- 6.16.3.1 System-type smoke detectors, or other automatic fire detection as permitted by 6.16.3.7, located in elevator lobbies, elevator hoistways, and elevator machine rooms including machine space, control room, and control space used to initiate fire fighters' service recall, shall be connected to the building fire alarm system.
- 6.16.3.2 In facilities without a building fire alarm system these smoke detectors, or other automatic fire detection permitted as by 6.16.3.7, shall be connected to a dedicated function fire alarm control unit that shall be designated as "Elevator recall control and supervisory control unit", permanently identified on the dedicated function fire alarm control unit and on the record drawings.
- 6.16.3.4 Each elevator lobby, elevator hoistway, and elevator machine room smoke detector, or other automatic fire detection as permitted by 6.16.3.7 shall be capable of initiating elevator recall when all other devices on the same initiating device circuit have been manually or automatically placed the alarm condition.
- 6.16.3.7 If ambient conditions prohibit installation of automatic smoke detection, other automatic fire detection shall be permitted. (aka Heat Detectors)
- 6.16.3.8 When actuated, any detector that has initiated fire fighters' recall shall also be annunciated at the building fire alarm control unit, or other fire alarm control unit as described in 6.16.3.2 and required remote annunciators.
- 6.16.3.9 Actuation from elevator hoistway and elevator machine room smoke detectors or other automatic fire detection as permitted by 6.16.3.7 shall cause separate and distinct visible annunciation at the building fire alarm control unit or fire alarm control unit described in 6.16.3.2 and required annunciators to alert fire fighters and other emergency personnel that the elevators are no longer safe to use.
- 6.16.3.12 Separate outputs from the fire alarm systems to the elevator controller(s) shall be provided to implement elevator Phase I Emergency Recall Operations in accordance with section 2.27 of ASME A17.1 *Safety Code for Elevators and Escalators* as required in 6.16.3.12.1 through 6.16.3.12.2

6.16.3.12.1 Designated Level Recall. For each elevator or group of elevators, an output shall be provided to signal elevator recall to the designated level in response to the following:

- (1) Activation of smoke detectors, or other automatic fire detection as permitted by 6.16.3.7, located at any elevator lobby served by the elevator(s) other than the lobby at the designated level.
- (2) Activation of smoke detectors, or other automatic fire detection as permitted by 6.16.3.7, located at any elevator machine room serving the elevator(s) except where the machine room is located at the designated level.
- (3) Activation of smoke detectors, or other automatic fire detection as permitted by 6.16.3.7, located in the elevator hoistway serving the elevator when sprinklers are located in the hoistway unless otherwise specified in 6.16.3.12.2(3).

6.16.3.12.2 Alternate Level Recall. For each elevator or group of elevators, an output shall be provided to signal elevator recall to the alternate level in response to the following:

- (1) Activation of smoke detectors, or automatic fire detection as permitted by 6.16.3.7, located at the designated level an lobby served by the elevator(s)
- (2) Activation of smoke detectors, or other automatic fire diction as permitted by 6/16/3/7, located in the elevator machine room serving the elevator(s) if the machine room is located at the designated level.
- (3) Activation of the initiating devices identified in 6.16.3.12.1(3) if they are installed at or below the lowest level of recall in the elevator hoistway and the alternate level is located above the designated level.