



## STATE OF WISCONSIN

Department of Safety and Professional Services

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Governor Scott Walker

Secretary Dave Ross

## National Fire Alarm Code

### NFPA 72 (2007) & Elevators

#### Elevator Recall for Fire Fighters' Emergency Operation

6.16.2.1	A listed relay or other listed appliance connected to the fire alarm system used to initiate control of protected premises fire safety functions shall be located within three feet of the controlled circuit or appliance.
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 machinery space, control room and control space used to initiate fire-fighter's 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 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.
6.16.3.3	Unless otherwise required by the authority having jurisdiction, only elevator lobby, elevator hoistway, and elevator machine room smoke detectors or other automatic fire detection as permitted by 6.16.3.7 shall be used to recall elevators for fire-fighter's service.
6.16.3.4	Each elevator lobby, elevator hoistway, and elevator machine room smoke detectors shall be capable of initiating recall when all other devices on the same initiating device circuit have been manually or automatically placed in the alarm condition.
6.16.3.5	A lobby smoke detector shall be located on the ceiling within 21' of the centerline of each elevator door within the elevator bank under control of the detector.
6.16.3.6	Smoke detectors shall not be located in un-sprinkled elevator hoistways.
6.16.3.7	If ambient conditions prohibit installation of automatic smoke detection, other automatic fire detection shall be permitted. Note: Such ambient conditions may include where steam, dust or low temperatures are commonly present. Heat detectors used in place of smoke detectors must be lower temperature than those used for shunt trip disconnecting where sprinklers are present.
6.16.3.8	When actuated, any detector that has initiated firefighters' 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 shall cause separate and distinct visible annunciation at the building fire alarm control unit or the fire alarm control unit and required annunciators to alert fire fighters and other emergency personnel that the elevators are no longer safe to use.
6.16.3.10	Where approved by the authority having jurisdiction, the detectors used to initiate elevator recall shall be permitted to initiate a supervisory signal in lieu of an alarm signal.
6.16.3.12	Separate outputs from the fire alarm systems to the elevator controller shall be provided to implement elevator Phase I Emergency Recall Operation as follows: <b>Designated level:</b> typically the main floor level that best serves the needs of emergency personnel for firefighting or rescue purposes identified by the building code or fire authority.
<i>Terms</i>	<b>Alternate level:</b> a floor level other than the designated level.
6.16.3.12.1	For each elevator or group of elevators, an output shall be provided to signal elevator recall to the <b>designated level</b> in response to the following:

6.16.3.12.1 (1)	Activation of smoke detectors located at any elevator lobby served by the elevator(s) other than the lobby at the designated level
6.16.3.12.1 (2)	Activation of smoke detectors located at any elevator machine room serving the elevator(s) except where the machine room is located at the designated level
6.16.3.12.1 (3)	Activation of smoke detectors located in the elevator hoistway serving the elevator when sprinklers are located in the hoistway.
6.16.3.12.2	For each elevator or group of elevators, an output shall be provided to signal elevator recall to the <b>alternate level</b> in response to the following:
6.16.3.12.2 (1)	Activation of smoke detectors located at the designated level lobby served by the elevator(s).
6.16.3.12.2 (2)	Activation of smoke detectors located in the elevator machine room serving the elevator(s) if the machine room is located at the designated.
6.16.3.12.3	For each elevator or group of elevators, an output shall be provided for the elevator visual warning signal in response to the activation of the elevator machine room smoke detector or activation of the elevator hoistway smoke detector.

### Phase I Emergency Recall Operation (typical)

