



CITY OF SCOTTSDALE
SCOTTSDALE FIRE DEPARTMENT

**Interpretations
And
Applications
of
NFPA 72 (2013 edition)
EFFECTIVE: January 7, 2013**

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2013 NFPA 72

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INTERPRETATIONS & APPLICATIONS
OF THE 2013 NFPA 72 Revised: 01-07-13



CHAPTER 1 – ADMINISTRATIVE

1.1.3 SPECIAL REQUIREMENTS BASED ON OCCUPANCY *ADDED*

The following special requirements shall apply based on the occupancy of building.

GROUP E OCCUPANCIES

When a fire alarm system is required, automatic detection shall be provided throughout all useable areas. Automatic detection shall be provided by smoke detectors, except that in areas where ambient conditions prevent use of smoke detectors (bathrooms, storage closets without electrical panels), heat detectors or fire sprinklers protecting such area may be used to automatically initiate alarm signals.

Fire alarm circuits shall be designed and installed in such a manner that failure, removal, or destruction of any single alarm actuating or indicating device or break in the wiring circuit will not interfere with normal operation of any actuating or indicating device (class "A" wiring).

GROUP I OCCUPANCIES

Notification appliances shall be chime/strobes throughout patient areas. Fire alarm circuits shall be designed and installed in such a manner that failure, removal, or destruction of any single alarm actuating or indicating device or a break in wiring circuit will not interfere with normal operation of any actuating or indicating device (class "A" wiring).

1.1.4 ALARM INSTALLATIONS IN SEPARATED/NON-SEPARATED USES *ADDED*

Fire alarms shall be extended throughout all portions of contiguous buildings as required by the International Building Code Section 508.3. per applicable separated and non-separated uses construction requirements.

CHAPTER 4 – FUNDAMENTALS OF FIRE ALARM SYSTEMS

7.2.1.1 SUBMITTAL REQUIREMENTS *ADDED*

All plan submittals shall comply with the revised 2012 International Fire Code 901.2.2. Provide 3 sets of plans and 1 set of manufacturer's data sheets. All plan submittals logged into the One-Stop-Shop for review shall be in accordance with the standard plan review format as provided by the Arizona Automatic Fire Alarm Association. Acceptable paper size shall be limited to 24 x 36 or 30 x 42 at 1/8" scale. Up to five devices/appliances may be submitted to one stop shop on an 8½ x 11 paper document.

For digital submittals see the City of Scottsdale Web Site at:

<http://www.scottsdaleaz.gov/bldgresources/digital.asp>

- (1) Approved plans shall be available on the job site before any equipment is installed or remodeled.
- (2) An approved set of alarm plans shall be on the job site at all times and shall be at the structure or part of the structure being tested or inspected. There may be no partial submittals.

CHAPTER 10 – FUNDAMENTALS

10.18.3.2.1 ANNUNCIATOR ACCESS AND LOCATION *ADDED*

A **remote** Fire Alarm Annunciation panel shall be required in **all** new/remodeled structures when the following conditions exist:

- (1) Commercial building two (2) or more stories in height.
- (2) Multi-family building three (3) or more stories in height.
- (3) Multi-family property with six (6) or more buildings on site with a central station alarm panel.
- (4) As required by the fire code official.

CHAPTER 17 – INITIATING DEVICES

17.7.5.5.8 LOCATION AND INSTALLATION OF DETECTORS IN AIR DUCT SYSTEMS *ADDED*

Remote alarm or supervisory indicators shall be installed in an accessible location and shall be clearly labeled to indicate both their function and the air-handling unit(s) associated with the detector.

17.7.5.5.9 DUCT SMOKE DETECTOR TESTING *ADDED*

- (1) Duct smoke detectors in buildings with a building fire alarm system (full evacuation type system) or detectors being monitored offsite will be inspected by the fire code official.

- (2) Such new installations of smoke detectors associated with smoke dampers and HVAC shut-offs shall be tested by professional engineer of record, an approved testing agency or a qualified third party special inspector.
- (3) The testing agency or qualified third party special inspector shall be an approved independent third party individual or firm and shall not be the installing contractor.
- (4) The final report submitted to the fire code official shall be signed, sealed (wet) and dated prior to certificate of occupancy.
- (5) Duct smoke detectors in buildings without a building fire alarm system (full evacuation type system) will be inspected by the fire code official. Provisions of items 2 and 3 above shall apply.

CHAPTER 21 – Emergency Control Function Interfaces

21.3.12.1 ELEVATOR RECALL FOR FIREFIGHTER’S SERVICE *AMENDED*

Detectors used to initiate elevator recall service shall initiate a supervisory signal unless otherwise required by the State of Arizona Elevator Inspection Department.

Chapter 23 - Protected Premises Fire Alarm Systems

23.8.5.6.1.1 SPRINKLER WATERFLOW MONITORING PANELS *ADDED*

- (1) In buildings not required by the amended 2012 IFC to have fire alarm systems installed, or where voluntary fire alarm systems are not installed, dedicated function fire alarm control units (water-flow monitoring) are not required to have additional devices added or monitored by such units (duct detectors, smoke detector above panel, single pull station, etc). See 2013 NFPA 72 Handbook 23.8.5.5.1.
- (2) All alternative suppressions systems (hood suppression, clean agent systems, etc) shall be monitored offsite when water-flow monitoring systems are required or provided.
- (3) In buildings where fire alarm systems are installed, all applicable alarm system devices shall installed, supervised, and/or monitored by such system in accordance with this standard and applicable codes.

23.8.5.6.1.2 FLOW SWITCH ALARM MONITORING *ADDED*

Where flow switches on fire sprinkler systems are required to be monitored, they shall be connected to fire alarm control panel & indicate floor and/or area/zone.

23.8.5.6.1.3 SUPERVISORY SIGNAL INITIATION – TAMPER *ADDED*

Control valves on fire sprinkler systems that are required to be monitored shall be connected to the fire alarm control panel & indicate floor and/or area.