



Evansville Fire Department

Fire Alarm Plan Review Worksheet

This **Fire Alarm Plan Review Worksheet** is provided as a guide to assist with your Fire Alarm Plan Review Submittal requirements. This form shall be submitted for review with the permit application. Please contact us with any questions at (812) 436-4464. All references to the National Fire Protection Act 72 are to the 2010 Edition ("NFPA").

PROPERTY INFORMATION

Building Name:

Building Address:

Owner's Name:

Owner's Address:

Owner's Phone Number:

Owner's Email:

Owner's Fax:

SYSTEM DESIGNER/CONTRACTOR

Company Name:

Company Address:

Contact Person (Designer):

Phone:

Fax:

Email:

Yes No

Was the system designed by person who is experienced in the proper design, application, installation, and testing of fire alarm systems per 72 NFPA 10.4.1 and 675 IAC 12-6-9?

Yes No

Does the system installer have proper qualifications to install and test fire alarm systems (i.e. NICET Fire Alarm Level 2, Factory Training and Certified, etc.) per 72 NFPA 10.4.3?

Yes No

Is a copy of installer's current certification provided with the submission?

GENERAL

Indicate if the installation of the proposed Fire Alarm System is (**check all that apply**):

Required by State of Indiana Building Code

Required by Insurance Provider

Not Required, system voluntarily installed

Other _____

NFPA Standard used in the system design and proposed installation:

NFPA 72 (675 IAC 28-1-28)

This proposal represents:

A new system being installed in the building

Modifications to an existing system

An extension of an existing system

Other _____

Construction Type of Building (*as defined by the Indiana Building Code*):

Type I Type II Type III Type IV (Heavy Timber) Type V Mixed

Occupancy Classification of Building (*as defined by the 2008 Indiana Building Code*) (**check all that apply**):

A-1 A-2 A-3 A-4 B E F-1 F-2 H-1 H-2 H-3 H-4 H-5

I-1 I-2 I-3 M R-1 R-2 R-3 R-4 S-1 S-2

System required per 2008 IBC 907.2.1 through 907.2.23 (**Check all that apply**):

Group A (manual fire alarm having an occupant load greater than 300)

Group B (manual fire alarm having an occupant load greater than 500 or 100 above or below the lowest level of exit discharge)

- Group E** (manual fire alarm system required unless occupant load is below 50)
- Group F** (manual fire alarm system required when building is 2 or more stories in height and occupant load is 500 above or below the lowest level of exit discharge)
- Group H** (manual fire alarm required in Group H-5 and in occupancies used to manufacture organic coatings; automatic smoke detection required for highly toxic gases, organic peroxides, and oxidizers in accordance with IFC Chapters 37, 39, and 40)
- Group I** (manual fire alarm system required; smoke detection required in Groups I-1, I-2, and I-3)
- Group M** (manual fire alarm system when occupant load is greater than 500 or 100 above or below the lowest level of exit discharge)
- Group R-1** (manual fire alarm system required; automatic fire alarm system required in interior corridors serving sleeping rooms; smoke alarms required in sleeping rooms)
- Group R-2** (manual fire alarm system required where sleeping units are located 3 or more stories above the lowest level of exit discharge, any dwelling or sleeping unit is located below the highest level of exit discharge, or the building contains more than 16 dwelling units)

<input type="checkbox"/> Yes <input type="checkbox"/> No	Are factory specifications included for all devices and wiring to be installed with this system?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Is a copy of the required Construction Design Release from the State of Indiana for the fire alarm system is included per 675 IAC 12-6-4 Sec. 4(b)(3)(G)?
<input type="checkbox"/> Yes <input type="checkbox"/> No	A Knox Box shall be installed on the exterior of the building where the fire alarm and/or sprinkler system is monitored or the non-monitored fire alarm system is equipped with an outside audible/visual signaling device per 2008 IFC 506.1. Was the location of the Knox Box been approved by the fire department prior to installation?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Are all rooms on the floor plans labeled consistent with the final room numbers of each room?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Are all rooms labeled on the floor plans in accordance with their usage?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Is an equipment symbol legend provided on the plans?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Does the reflected ceiling plan show the location of all other equipment on the ceiling (<i>i.e.</i> , supply registers, return air grills, ceiling fans, etc.) and anything else that would interfere with the proper operation of the detector?
<input type="checkbox"/> Yes <input type="checkbox"/> No	The Location of the Fire Alarm Control Panel is noted on the plans. (FACP) (TBD by EFD)
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The locations of all Remote Annunciators are noted on the plans. (RA) (TBD by EFD)
<input type="checkbox"/> Yes <input type="checkbox"/> No	The locations of all devices are shown on the floor plans.
<input type="checkbox"/> Yes <input type="checkbox"/> No	The locations of all end-of-line resistors and/or end-of-line relays are shown on submitted drawings.

PRIMARY POWER SUPPLY

The dedicated branch circuit for the fire alarm system is supplied by means defined in 72 NFPA 10.5.5.1:

- Commercial light and power
- An engine-driven generator
- A combination of commercial light and power and an engine-driven generator

<input type="checkbox"/> Yes <input type="checkbox"/> No	Dedicated branch circuit will be mechanically protected with a “breaker lock” per 72 NFPA 10.5.5.3.
<input type="checkbox"/> Yes <input type="checkbox"/> No	The circuit breaker is painted red , and the circuit number on the electrical panel schedule is identified as “ FIRE ALARM CIRCUIT ” per 72 NFPA 10.5.5.2.3.
<input type="checkbox"/> Yes <input type="checkbox"/> No	The panel number and circuit number are permanently labeled in the fire alarm control panel 72 NFPA 10.5.5.2.1.

SECONDARY POWER SUPPLY Yes No

Calculations are provided that prove that the secondary power has sufficient capacity to operate the fire alarm system under quiescent load for a minimum of 24 hours and has the ability, at the end of the 24 hours, to operate all alarm notification appliances for a period of 5 minutes per 72 NFPA 10.5.6.3.1.

 Yes No

If not located within the fire alarm control panel, the location of the batteries being utilized for secondary power are marked on the plans and permanently identified at the control unit per 72 NFPA 10.5.8.4 & 10.5.9.2.5.

ALARM SYSTEM SUPERVISION Central Station System Proprietary Supervising Station System System not monitored (**2008 IBC 907**)

Name of Monitoring Station:

Contact:

Address:

Phone:

Fax:

E-mail:

 Yes No N/A

For sprinklered buildings, all valves controlling the water supply, pumps, tanks, water levels and temperatures, critical air pressures, and water-flow switches are electronically supervised per 2008 IBC 903.4.

COMMUNICATIONDACT shall employ two transmission channels; one for the **primary channel** and a different transmission technology from the **secondary channel** per 72 NFPA 26.6.3.2.1.4(A).The **primary channel** to be provided is provided by (**only check one**): A telephone line (POTS) A cellular telephone connection A one-way radio system
 An internet alarm communicator A two-way RF multiplex systemThe **secondary channel** to be provided by (**only check one; NOTE- Cannot be the same channel as the primary channel**) A telephone line (POTS) A cellular telephone connection A one-way radio system
 An internet alarm communicator A two-way RF multiplex system**Wiring and Circuits** Yes No N/AFire alarm wiring installed in a plenum space is plenum rated per 2008 IMC 602.2.1.1. Yes NoInitiating device circuits are indicated on the submitted drawings per 72 NFPA 10.17.1.1 & 23.4.2. Yes NoSignaling line circuits are indicated on the submitted drawings per 72 NFPA 10.17.1.1 & 23.4.2 & 23.4.3.**Notification Appliances (Ch.18)** Yes NoThe total sound pressure between the ambient noise level and the fire alarm notification device does not exceed 110 dBA per 72 NFPA 18.4.1.2. Yes NoThe sound level is at least 15 dBA above the average ambient sound level per 72 NFPA 18.4.3.5.1. Yes No N/AThe sound level for **sleeping rooms** is at least 15 dBA above average ambient sound level or 75 dBA measured at the pillow, whichever is greater, and the sound level produces a "low frequency alarm signal" in accordance with 72 NFPA 18.4.5.

<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The <u>visible characteristics</u> (<i>light, color, and pulse</i>) in accordance with 72 NFPA 18.5, and “room spacing” for wall mounting in accordance with T-18.5.4.3.1(a), are provided, and the plans indicate the specific candela per each individual device.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The <u>visible characteristics</u> (<i>light, color, and pulse</i>) in accordance with 72 NFPA 18.5, and “room spacing” for ceiling mounting in accordance with T-18.5.4.3.1(b), are provided, and the plans indicate the specific candela per each individual device.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The <u>location of visible notification</u> devices installed in corridors (<i>if applicable</i>) are provided in accordance with 72 NFPA 18.5.4.4.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The <u>location of visible notification</u> devices installed in corridors (<i>if applicable</i>) is not more than 15 feet from the end of a corridor with a separation not more than 100 feet between appliances per 72 NFPA 18.5.4.4.4.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Alarm notification devices are installed in all general usage area such as restrooms, meeting rooms, hallways, lobbies and above (FDC), and any other area for common use per ADA 4.28.

Initiating Devices

Manual Fire Alarm Boxes (Pull Stations)

<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	No pull stations are installed per exceptions per 2008 IBC Section 907. (<i>Skip to next section</i>)
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Manual fire alarm boxes are mounted not more than 5 feet from the entrance to each marked exit per 2008 IBC 907.3.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Manual fire alarm boxes are mounted to the travel distance to each pull station does not exceed two hundred feet (200') per 2008 IBC 907.3.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The height of pull station shall be a minimum of 42 inches and maximum of 48 inches above the floor per 2008 IBC 907.3.2.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Grouped exit egress doors greater than 40 feet in width are equipped with a manual fire alarm box on each side of the opening within five feet of the opening per 72 NFPA 17.14.7.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Manual fire alarm boxes are red in color per 72 NFPA 17.14.1.2.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	If the fire alarm system is not monitored by a supervising station, a permanent sign is affixed adjacent to each pull station that reads: “ WHEN ALARM SOUNDS, CALL FIRE DEPARTMENT ” per 2008 IBC 907.3.4.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	If a “tamper proof” cover is provided, it is listed for use with the proposed fire alarm box per 2008 IBC 907.3.5.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	A single pull station is installed where the fire alarm system is only equipped with automatic detectors or waterflow switches, and no other pull stations are installed per 72 NFPA 23.8.5.1.2.

SMOKE & HEAT DETECTOR COVERAGE (17.5)

	Check only one box in this section 17.5 to indicate smoke & heat detector coverage.
<input type="checkbox"/> Yes <input type="checkbox"/> No	Total (Complete) Coverage - <u>All</u> rooms, halls, storage areas, basements, attics, lofts, spaces above suspended ceilings, and other subdivisions and accessible spaces have smoke and heat detector coverage (72 NFPA 17.5.3.1).
<input type="checkbox"/> Yes <input type="checkbox"/> No	Partial Coverage – Detection is installed in accordance with appropriate prescriptive spacing and location criteria as required in the 2014 Indiana Building Code (72 NFPA 17.5.3.2). The designer has consulted with the building owner and clearly communicated the limitations of non-complete coverage.
<input type="checkbox"/> Yes <input type="checkbox"/> No	Selective Coverage - Detection is not required by Code but is installed to meet performance objectives of building owner (72 NFPA 17.5.3.3).
<input type="checkbox"/> Yes <input type="checkbox"/> No	No smoke alarms are to be installed.

SLOPED CEILINGS & HIGH CEILINGS (Peaked and Shed) 17.6.3.4 & 17.6.3.5

<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Are detectors located in area of a “ceiling slope” of <i>less than 30 degrees</i> (slope of less than 1 in 8) (<i>i.e., Shed Type</i>)? 72 NFPA 17.6.3.4.1. If no, skip to next section.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Are detectors located in area of a “ceiling slope” of <i>more than 30 degrees</i> (slope of more than 1 in 8) (<i>i.e., Peaked Type</i>)? 72 NFPA 17.6.3.4.1.2. If no, skip to next section.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<i>Spacing and Location</i> of detectors in “ Sloped Ceiling ” Areas complies with 72 NFPA 17.6.3.4.2.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<i>Spacing and Location</i> of smoke/heat detectors in “ Peaked Type Ceiling ” Areas are located no more than 4 inches and a maximum of 36 inches from the top of peak in accordance with 72 NFPA 6.3.4.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Detectors located in “ High Ceiling ” Areas are 10 to 30 feet high and heat detector spacing complies with 72 NFPA 17.6.3.5.

RAISED FLOORS and/or SUSPENDED CEILINGS (17.7.3.5)

<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Are detectors located in raised floor or suspended ceiling areas? If no, skip to next section.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Detector spacing for <i>raised floors</i> complies with 72 NFPA 17.7.3.5.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Detector spacing for suspended ceilings complies with 72 NFPA 17.7.3.5.2.

Smoke Alarms (Residential Type Occupancies i.e., Apts, Hotels, Ass’t Living/Nursing Homes)

<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Single- or multiple-station smoke alarms for Group R-1 are installed in all sleeping areas and in every room leading to the path of egress from the sleeping area to the door leading from the sleeping unit in accordance with 2008 IBC 907.2.10.1.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Single- or multiple-station smoke alarms for Group R-2, R-3, R-4, and I-1 are installed in each room used for sleeping purposes, outside each sleeping area, and in each story within a dwelling unit per 2008 IBC 907.2.10.1.2.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Primary power for the smoke alarms comes from building power with a battery backup or connection to the emergency electrical system for Group R-1 per 2008 IBC 907.2.10.2.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All smoke alarms for Group R-1 are interconnected per 2008 IBC 907.2.10.3.
<input type="checkbox"/> Yes <input type="checkbox"/> No	Audible Appliances (<i>horns</i>) are installed in <i>sleeping areas</i> and produce a “ <i>low frequency alarm signal</i> ” in accordance with 72 NFPA 18.4.5.

Smoke-Sensing Fire Detectors (17.7)

Spot-Type Smoke Detectors

<input type="checkbox"/> Yes <input type="checkbox"/> No	A smoke detector is installed at the Fire Alarm Control Panel(s) per 72 NFPA 10-4.4. No other spot-type smoke detectors are installed. Check Yes and Skip to next section.
<input type="checkbox"/> Yes <input type="checkbox"/> No	Ceiling-mounted detectors on smooth ceilings are spaced at 30-foot intervals per 72 NFPA 17.7.3.2.3.1 or Figure A.17.6.3.1.1(g).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Side wall detectors are located between the ceiling and 12 inches down from the ceiling to the top of the detector per 72 NFPA 17.7.3.2.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Ceiling-mounted detectors in solid joist and beam construction are designed in accordance with 72 NFPA 17.7.3.2.4.1 through 17.7.3.2.4.6.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Will smoke detectors be installed in the construction phase of the project and, if yes, be protected from construction debris, dirt, and damage during construction (w/ protective covers) and cleaned and verified to function properly in accordance with their listing by conducting sensitivity testing in accordance with 72 NFPA 17.7.1.11 prior to obtaining a Certificate of Occupancy Permit?

<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Detectors installed in high air movement areas are spaced per 72 NFPA Table 17.7.6.3.3.1 & Figure 17.7.6.3.3.1 in accordance with 72 NFPA 17.7.6.3.3.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Smoke detectors in “High-Rack Storage” (exceeding 12 feet in height) comply with 72 NFPA 17.7.6.2.
Air Sampling Type Smoke Detectors (17.7.3.6)	
<input type="checkbox"/> Yes <input type="checkbox"/> No	No air sampling type smoke detectors are installed. If yes, skip to next section.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The location of each sampling port is noted on the plans, and they are spaced and located per spacing of spot-type detectors in accordance with 72 NFPA 17.7.3.2.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Documentation is provided that shows the maximum air sample transport time does not exceed 120 seconds in accordance with 72 NFPA 7.6.3.6.2 and manufacturer’s listings.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	System piping for air sampling detectors shall be labeled as “ SMOKE DETECTOR SAMPLING TUBE—DO NOT DISTURB ” (17.7.3.6.8) at the following locations: <ul style="list-style-type: none"> <input type="checkbox"/> At changes in direction or branches of piping <input type="checkbox"/> At each side of penetrations of walls, floors, or other barriers <input type="checkbox"/> At intervals on piping that provide visibility within the space but no greater than 20 feet
Projected Beam-Type Smoke Detectors (17.7.3.7)	
<input type="checkbox"/> Yes <input type="checkbox"/> No	No projected beam-type smoke detectors are installed. If yes, skip to next section.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Detectors are located in accordance with the manufacturer’s published instructions in accordance with 72 NFPA 17.7.3.7.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Documentation is provided showing the effects of stratification have been evaluated in the locating of detectors in accordance with 72 NFPA 17.7.3.7.2.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The beam length is shown on the plans, and it does not exceed the maximum length permitted by the manufacturer in accordance with 72 NFPA 7.3.7.3.
Duct Smoke Detectors (17.7.5.4.2)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	No duct smoke detectors are installed. If yes, skip to next section.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The location and installation of detectors in air duct systems is designed per 72 NFPA 17.7.5.5.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Duct smoke detectors are installed in HVAC units that have a return air capacity greater than 2,000 cfm’s per 2008 IMC 606.2.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Duct smoke detectors are not installed, and the buildings smoke detectors provide protection for the area covered by HVAC system per exception to 2008 IMC 606.2.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Duct smoke detectors are installed where multiple HVAC systems share common supply or return air ducts or plenums with a design capacity greater than 2,000 cfm’s per 2008 IMC 606.2.2.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Duct smoke detectors are installed in each story of the return system that serves 2 or more stories with a design capacity greater than 15,000 cfm’s per 2008 IMC 606.2.3.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Upon activation, the duct smoke detector will shut down the operation of the HVAC unit that it serves per 2008 IMC 606.4.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The duct smoke detector is connected to the fire alarm system per 2008 IBC 907.11, and the activation of the detector initiates an audible and visual signal at a constantly attended location.

<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The duct detector does not activate an audible and visual signal at a constantly attended location, but it activates the buildings alarm notification devices per 2008 IBC 907.11 exception 1.
<input type="checkbox"/> Yes <input type="checkbox"/> No	Access is provided to each duct detector for periodic inspection, maintenance, and testing per 2008 IBC 907.12.
Heat-Sensing Fire Detectors (17.6)	
<input type="checkbox"/> Yes <input type="checkbox"/> No	No heat detectors are installed. <i>If yes, skip to next section.</i>
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	RTI (<i>Response Time Index</i>) & Set-Point <u>Temperature</u> listing documentation for spot-type heat detectors is included with plan submittal in accordance with 72 NFPA 17.6.1.4.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Heat-sensing fire detectors shall be marked with their listed operating temperature and/or with their RTI where the alarm threshold is field adjustable per 72 NFPA 17.6.2.2.2 & 3.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Side wall detectors are mounted between 4 to 12 inches from the top of the detector to the ceiling per 72 NFPA 17.6.6.3.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Ceiling mounted detectors are not installed within 4 inches of a sidewall to the nearest edge of the detector per 72 NFPA 17.6.6.3.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The heat detector is mounted on the bottom of the joist in solid joist construction per 72 NFPA 17.6.3.2.2.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The heat detectors are located on the bottom of a beam where the beam is projecting less than 12 inches in depth from below the ceiling and less than 96 inches (8 feet) on center per 72 NFPA 17.6.3.3.2.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Spacing of heat detectors for beam (17.6.3.2) and solid joist construction (17.6.3.3) is designed in accordance with NFPA 72.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Line-type heat detectors that are mounted on the ceiling or sidewall are not more than 20 inches from the ceiling per 72 NFPA 17.6.3.1.3.2.
Radiant Energy –Sensing Fire Detectors Detection (17.8)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	No radiant energy-sensing fire detectors are installed. <i>If yes, skip to next section.</i> (i.e., Flame Detectors, Spark/Ember Detectors, or Video Image Flame Detection)
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Documentation is provided showing that the type and quantity of detectors is in accordance with 72 NFPA 17.8.2 and 17.8.2.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Documentation is provided showing that the spacing of detectors in accordance with 72 NFPA 17.8.3; 17.8.4; 17.8.5.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Line-type detection is installed in accordance with NFPA 17.6.3.1.3.2.
Fire Suppression Systems	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	There is no sprinkler or suppression system to be installed. <i>If yes, skip to next section.</i>
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The activation of an automatic fire suppression system shall activate the fire alarm system per 72 NFPA 17.13 and 2008 IBC 907.13. This shall include any of the following: wet-chemical system, dry-chemical system, foam systems, carbon dioxide systems, halon systems, clean-agent systems, and commercial cooking systems.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Activation of the automatic sprinkler system activates the fire alarm system per 2008 IBC 903.4.2.

The following are monitored for the sprinkler system per 2008 IBC 903.4:

- Yes No N/A All valves controlling water supply
 Yes No N/A Water tank level
 Yes No N/A Water tank temperature
 Yes No N/A Low air pressure

Fire Pump Controllers

<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The alarm and signal devices on the controller for the fire pump or motor shall activate the fire alarm as required by 20 NFPA 7-4.7 (a) (1999 edition).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The loss of <i>any</i> phase at the line terminals of the motor contactor for the fire pump is monitored per 20 NFPA 7-4.7(b)(1999 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<i>Phase reversal</i> of line terminals to the motor contactor for the fire pump is monitored per 20 NFPA 7-4.7(c)(1999 edition).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The <i>alternate source of power</i> to the fire pump controller is monitored and shall indicate the alarm circuit when the alternate source of power is supplying power to the fire pump controller per 20 NFPA 7-4.7(d)(1999 edition).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	A "pump running signal" on the fire pump shall be permitted to be a supervisory or alarm signal per 72 NFPA 23.8.5.9.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Signals, other than "pump running" on the fire pump, shall be supervisory signals per 72 NFPA 23.8.5.9.2.

Door Release Service (17.7.5.6)

<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	There is no door release service to be installed. <i>If yes, skip to next section.</i>
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Smoke detectors installed and spaced as required by 17.7.3 protecting a room, corridor, and/or enclosed space accomplish door release in accordance with 72 NFPA 17.7.5.6.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Where a smoke door is accomplished directly from the smoke detector, the detector shall be listed for releasing service in accordance with 72 NFPA 17.7.5.6.3.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Location and spacing of smoke detectors are installed in accordance with 72 NFPA 17.7.5.6.5.1 through 17.7.5.6.6.2.

Elevator Recall for Fire Fighters' Service (21.3)

<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	There are no elevators to be installed. <i>If yes, skip to end.</i>
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Smoke detectors or other automatic fire detection devices installed and utilized for elevator recall are connected to the building fire alarm system in accordance with 72 NFPA 21.3.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Buildings not equipped with a fire alarm system shall have a dedicated fire alarm system control unit, the control unit shall be permanently marked as " ELEVATOR RECALL CONTROL AND SUPERVISOR PANEL ", and the control unit is shown on the submitted drawings in accordance with 72 NFPA 21.3.2.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lobby smoke detectors are located within 21 feet of the centerline of each elevator door within the elevator bank under control of the detector in accordance with 72 NFPA 21.3.5.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Smoke detectors are NOT installed in <i>unsprinklered</i> elevator hoistways unless they are installed to activate smoke relief equipment in accordance with 72 NFPA 21.3.6.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Other automatic fire detection is installed for elevator recall because ambient conditions prohibit the installation of smoke detectors in accordance with 72 NFPA 21.3.7, and such other automatic fire detection shall be "specifically intended" for these types of spaces (i.e., <i>heat detectors with sufficient RTI and Temperature ratings</i>).

<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Any detector that has initiated fire fighters' recall when actuated shall also be annunciated at the fire alarm control unit(s) and remote annunciator(s) per 72 NFPA 21.3.8.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Activated detectors in the elevator hoistway and machine room alert emergency personnel at the control unit and remote annunciators that the elevators are no longer safe to use in accordance with 72 NFPA 21.3.9.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The activation of smoke detectors for <i>Elevator Recall</i> shall be provided in accordance with 72 NFPA 21.3.12.1 & 21.3.12.2.
Elevator Shutdown	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Heat detectors installed to shut down elevator power prior to sprinkler operation are listed with a lower temperature rating and higher sensitivity as compared to the sprinkler in accordance with 72 NFPA 21.4.1.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Heat detectors installed to shut down elevator power are installed within 2 feet of each sprinkler head in accordance with the requirements of Chapter 17, or alternative engineering methods are used as specified in Annex B in accordance with 72 NFPA 21.4.2.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Pressure or waterflow switches are used to shut down elevator power, and the switches are not equipped with time-delay functions in accordance with 72 NFPA 21.4.3.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Control circuits for elevator shutdown shall be monitored for the presence of operating voltage, and the loss of voltage shall initiate a supervisory signal at the control unit and required remote annunciators in accordance with 72 NFPA 21.4.4.
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initiating devices installed per 21.4.2 and 21.4.3 shall be monitored for integrity by the fire alarm control unit in accordance with 72 NFPA 21.4.5.

ALL answers checked "NO", must be provided with a detailed written narrative below.

Written narrative providing "intent" and "system description"

Ex. "Install 3 additional smoke detectors for newly installed meeting room"

DISCLAIMER: The information presented above summarizes the basic requirements for commercial construction and is not to be relied upon for the complete requirements for commercial construction. It is to your advantage to use a design professional or a professional contractor to assist you with those areas of construction with which you are unfamiliar. Unfamiliarity with the applicable codes may cause unplanned delays and unforeseen costs to comply with code regulations.

Owner or General Contractor

(Printed Name)

(Signature)

(Date)

(Company Name)

(Email and Phone Contact)