



WHITE RIVER TOWNSHIP FIRE DEPARTMENT

This **Fire Alarm Plan Review Worksheet** is to be completed with your Fire Alarm Plan Review Submittal. Please contact us with any questions at Safebuildings@wrtfd.org or (317)888-8337.

PROPERTY INFORMATION

Building Name:

Building Address:

Owner's Name:

Owner's Address:

Owner's Phone Contact:

Owner's Email:

Owner's Fax:

SYSTEM DESIGNER/CONTRACTOR

Company Name:

Company Address:

Contact Person (Designer):

Phone #:

Fax #:

Email:

Yes No

System designed by person who is experienced in the proper design, application, installation, and testing of fire alarm systems per *NFPA 72- 10.4.1 (2010 edition).and 675 IAC 12-6-9?*

Yes No

System installer has proper qualifications to install and test fire alarm systems (i.e. NICET Fire Alarm Level 2, Factory Training and Certified, etc.) per *NFPA 72 -10.4.3 (2010 edition)?*

Yes No

Copy of installer's current certification is provided with submittal?

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 (2010 Edition-675 IAC 28-1-28)

This proposal represents:

A new system being installed in the building

Modifications to an existing system

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(s) Classification of Building (as defined by the 2014 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



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System required per 2014 IBC 907.2 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 two (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 five hundred (500) or one hundred (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 are required in sleeping rooms)
- Group R-2** (manual fire alarm system required where sleeping units are located three (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	Factory specifications are included for all devices and wiring to be installed with this system?
<input type="checkbox"/> Yes <input type="checkbox"/> No	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 2014 IFC 506.1. The location of the Knox Box shall be approved by the fire department prior to installation?
<input type="checkbox"/> Yes <input type="checkbox"/> No	All rooms are labeled on floor plans that are consistent with final room numbers of each room?
<input type="checkbox"/> Yes <input type="checkbox"/> No	All rooms are labeled on floor plans are in accordance with their usage?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Equipment symbol legend is provided on plans?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Reflected ceiling plan shows location of all other equipment on ceiling? (<i>i.e., supply registers, return air grills, ceiling fans, etc.</i>) or anything else that would interfere with the proper operation of the detector?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Fire Alarm Control Panel noted on plans? (FACP)
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Locations of all Remote Annunciators noted on plans? (RA)
<input type="checkbox"/> Yes <input type="checkbox"/> No	Locations of all devices are shown on floor plans?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Locations of all end-of-line resistors and/or end-of-line relays are shown on submitted drawings?



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PRIMARY POWER SUPPLY

The dedicated branch circuit for the fire alarm system is supplied by means defined in NFPA 72 10.5.5.1 (2010 edition):

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

Yes No

Dedicated branch circuit will be mechanically protected with a “breaker lock” per NFPA72: 10.5.5.3 (2010 edition)?

Yes No

The circuit breaker is painted **red** and circuit number on the electrical panel schedule is identified as “**FIRE ALARM CIRCUIT**” per NFPA 72: 10.5.5.2.3 (2010 edition)?

Yes No

The panel number and circuit number are permanently labeled in the fire alarm control panel NFPA 72: 10.5.5.2.1 (2010 edition)?

SECONDARY POWER SUPPLY

Yes No

Calculations are provided that prove the secondary power has sufficient capacity to operate the fire alarm system under quiescent load for a minimum of 24 hours and at the end of that 24 hours be able to operate all alarm notification appliances for a period of 5 minutes per NFPA 72 10.5.6.3.1 (2010 edition)?

Yes No

If not located within the fire alarm control panel, the location of the batteries being utilized for secondary power shall be marked on the plans and permanently identified at the control unit per NFPA 72 10.5.8.4 & 10.5.9.2.5 (2010 edition)?

ALARM SYSTEM SUPERVISION

- Central Station System
 Proprietary Supervising Station System
 System not monitored (**2014 IBC 907**)

Name of Monitoring Station:

Contact:

Address:

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 2014 IBC 903.4

COMMUNICATION

DACT shall employ two (2) Transmission channels; one for the **primary channel** and a different transmission technology from the **secondary channel** per NFPA 72-26.6.3.2.1.4(A) (2010 Edition).

The **primary channel** to be provided is provided by (**only check one**): ***Note: VOIP NOT Accepted.**

- A telephone line (POTS)
 A cellular telephone connection
 A one-way radio system
 An internet alarm communicator
 A two-way RF multiplex system

The **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



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Type of System (check all that apply)

- Manual System
- Automatic Smoke and Fire Detection
- Manual and Automatic
- Addressable System
- Point Addressable System
- Analog Addressable System
- Conventional Zone System
- Wireless System

Wiring and Circuits

<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Fire alarm wiring installed in a plenum space is plenum rated per 2014 IMC 602.2.1.1?
<input type="checkbox"/> Yes <input type="checkbox"/> No	<u>Initiating device circuits</u> are indicated on the submitted drawings per NFPA: 72-10.17.1.1 & 23.4.2 (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No	<u>Signaling line circuits</u> are indicated on the submitted drawings per NFPA 72-10.17.1.1 & 23.4.2 & 23.4.3 (2010 edition)?

Notification Appliances (Ch.18)

<input type="checkbox"/> Yes <input type="checkbox"/> No	The total <u>sound pressure</u> between the ambient noise level and the fire alarm notification device shall not exceed 110 dBA per NFPA 72:18.4.1.2 (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No	The <u>sound level</u> is at least 15 dBA above the average ambient sound level per NFPA 72:18.4.3.5.1(2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The <u>sound level</u> for sleeping rooms is at least 15 dBA above average ambient sound level or 75 dBA measured at the pillow, whichever is greater, and produce a "low frequency alarm signal" in accordance with NFPA 72:18.4.5 (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The visible characteristics (<i>light, color, and pulse</i>) are provided in accordance with NFPA 72: 18.5 & "room spacing" for wall mounting in accordance with T-18.5.4.3.1 (a) 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 visible characteristics (<i>light, color, and pulse</i>) are provided in accordance with NFPA 72: 18.5 & "room spacing" for ceiling mounting in accordance with T-18.5.4.3.1 (b) and the plans indicate the specific candela per each individual device? ?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Location of visible notification</u> devices installed in Corridors (if applicable) are provided in accordance with NFPA 72:18.5.4.4 (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Location of visible notification</u> devices installed in Corridors (if applicable) are located not more than 15 ft. from the end of a corridor and with a separation not greater than 100 ft. between appliances in accordance with NFPA 72:18.5.4.4.4(2010 edition)?
<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 rest rooms, meeting rooms, hallways, lobbies, and any other area for common use per ADA 4.28



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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 2014 IBC Section 907? (List Exceptions Taken and Skip to the next section).
<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 2014 IBC 907.4.2.1?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Manual fire alarm boxes are mounted so the travel distance to each pull station does not exceed two hundred feet (200') per 2014 IBC 907.4.2.1?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The height of pull station shall be a minimum of forty-two inches (42") and maximum of forty-eight (48") above the floor per 2014 IBC 907.4.2.2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Grouped exit egress doors greater than forty feet (40') in width are equipped with a manual fire alarm box on each side of the opening within five (5') of each side of the opening per NFPA 72:17.14.7 (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Manual fire alarm boxes shall be red in color NFPA:72:17.14.1.2 (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	When the fire alarm system is not monitored by a supervising station, a permanent sign must be affixed adjacent to each pull station that reads: WHEN ALARM SOUNDS-CALL FIRE DEPARTMENT per 2014 IBC 907.4.2.4?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	If a "tamper proof" cover is provided, it must be listed for use with the proposed fire alarm box per 2014 IBC 907.4.2.5?
<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 NFPA 72:23.8.5.1.2 (2010 edition)? Location:

SMOKE & HEAT DETECTOR COVERAGE (17.5)

<input type="checkbox"/> Yes <input type="checkbox"/> No	Total (Complete) Coverage- All rooms, halls, storage areas, basements, attics, lofts, spaces above suspended ceilings, and other subdivisions and accessible spaces (NFPA 72:17.5.3.1- 2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Partial Coverage- In accordance with appropriate prescriptive spacing and location criteria as required in the 2014 Indiana Building Code (NFPA 72:17.5.3.2- 2010 edition)? 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 installed to meet performance objectives of building owner (NFPA 72: 17.5.3.3-2010 edition)?
<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 <u>less than 30 degrees</u> (slope of more than 1 in 8)? (i.e., Shed Type) (If no, skip to next section) NFPA 72:17.6.3.4.1-2010?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Are detectors located in area of a "ceiling slope of <u>more than 30 degrees</u> (slope of more than 1 in 8)? (i.e., Peaked Type) (If no, skip to next section) 17.6.3.4.1.2-2010Ed?



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<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<i>Spacing and Location of detectors in “Sloped Ceiling” Areas in accordance with NFPA 72:17.6.3.4.2 (2010 edition)?</i>
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<i>Spacing and Location of smoke/heat detectors in “Peaked Type Ceiling” Areas to be located no more than 4 inches and a maximum of 36 inches from the top of peak in accordance with NFPA 72:6.3.4 (2010 edition)?</i>
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<i>Detectors located in “High Ceiling” Areas 10 to 30 feet high, heat detector spacing shall be in accordance with NFPA 72:17.6.3.5 (2010 edition)?</i>
RAISED FLOORS and/or SUSPENDED CEILING (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? <i>(If no, skip to next section)</i>
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Detector spacing for <u>raised floors</u> shall be in accordance with NFPA 72:17.7.3.5.1 (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Detector spacing for suspended ceilings shall be in accordance with NFPA 72:17.7.3.5.2 (2010 edition)?
Smoke Alarms (<i>Residential Type Occupancies i.e., Apts, Hotels, Ass’t Living/Nursing Homes</i>)	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Single- or multiple-station smoke alarms for Group R-1 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 2014 IBC 907.2.11.1?
<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 installed in each room used for sleeping purposes, outside each sleeping area and in each story within a dwelling unit per 2014 IBC 907.2.11.2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Primary power for the smoke alarms from building power with a battery backup or connected to the emergency electrical system for Group R-1 per 2014 IBC 907.2.11.4?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All smoke alarms for Groups R-1, are interconnected per 2014 IBC 907.2.11.3?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Audible Appliances (<i>horns</i>) are installed in <u>sleeping areas</u> and produce a “ <i>low frequency alarm signal</i> ” in accordance with NFPA 72:18.4.5 (2010 edition)?
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 NFPA 72:10-4.4 (2010 edition). No other spot-type smoke detectors are to be installed. Check Yes and <u>Skip to next section.</u>
<input type="checkbox"/> Yes <input type="checkbox"/> No	Ceiling mounted detectors on smooth ceilings are spaced at thirty (30) foot intervals per NFPA 72:17.7.3.2.3.1 or Figure A.17.6.3.1.1(g) (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Side wall detectors to be located between the ceiling and 12 inches down from the ceiling to the top of the detector? NFPA 72: 17.7.3.2.1 (2010edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Ceiling mounted detectors in solid joist and beam construction designed in accordance with NFPA 72:17.7.3.2.4.1 through 17.7.3.2.4.6 (2010 Edition)?
<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 (<i>and if true</i>) will be protected from construction debris, dirt and damage during construction (w/ protective covers), and cleaned and verified to function properly in accordance



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	with their listing by conducting sensitivity testing in accordance with NFPA 72:17.7.1.11 (2010 edition) prior to obtaining 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 NFPA 72 Table 17.7.6.3.3.1 & Figure 17.7.6.3.3.1 in accordance with NFPA 72:17.7.6.3.3 (2010 edition)
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Smoke detectors in "High-Rack Storage" (exceeding 12 ft. in height) shall be in accordance with NFPA 72:17.7.6.2 (2010 edition)?
Air Sampling Type Smoke Detectors (17.7.3.6)	
<input type="checkbox"/> Yes <input type="checkbox"/> No	No air sampling type smoke detectors are to be installed. <i>Skip to next section.</i>
<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 spaced and located per spacing of spot-type detectors in accordance with NFPA 72:17.7.3.2 (2010 edition)?
<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 NFPA 72:7.6.3.6.2 and manufacturer's listings (2010 edition)?
<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 to be installed. <i>Skip to next section.</i>
<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 NFPA 72:17.7.3.7.1 (2010 edition)?
<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 NFPA 72:17.7.3.7.2 (2010 edition)
<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 manufacture in accordance with NFPA 72:7.3.7.3 (2010 edition)?
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 to be installed. <i>Skip to next section.</i>
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Location and Installation of Detectors in Air Duct Systems designed per NFPA 72:17.7.5.5 (2010 edition)?
<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 two thousand (2000) cfm's per 2014 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 2014 IMC 606.2.1?



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<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 two thousand (2000) cfm's per 2014 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 two (2) or more stories with a design capacity greater than fifteen thousand (15,000) cfm's per 2014 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 2014 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 2014 IMC 606.4.1 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 activates the buildings alarm notification devices per 2014 IBC 907.3.1 exception 1?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Access is provided to each duct detector for periodic inspection, maintenance, and testing per 2014 IMC 606.3?
Heat-Sensing Fire Detectors (17.6)	
<input type="checkbox"/> Yes <input type="checkbox"/> No	No heat detectors are to be installed. <i>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 included with plan submittal in accordance with NFPA 72:17.6.1.4 (2010 edition)?
<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 where the alarm threshold is field adjustable be marked with their RTI per NFPA 72:17.6.2.2.2 & 3 (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Side wall detectors are mounted between four (4) to twelve (12) inches from the top of the detector to the ceiling per NFPA 72-17.6.6.3.1 (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Ceiling mounted detectors are not installed within four (4) inches of a sidewall to the nearest edge of the detector per NFPA 72-17.6.6.3.1 (2010 edition)?
<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 NFPA 72:17.6.3.2.2 (2010 edition)?
<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 ft.) on center per NFPA 72:17.6.3.3.2 (2010 edition)?
<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) are designed in accordance with NFPA 72 (2010 edition)?
<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 NFPA 72:17.6.3.1.3.2 (2010 edition)?
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 to be installed. <i>Skip to next section. (Flame Detectors, Spark/Ember Detectors, or Video Image Flame Detection)</i>



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<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 NFPA 72:17.8.2 and 17.8.2.1 (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Documentation is provided showing the spacing of detectors in accordance with NFPA 72:17.8.3 / 17.8.4 / 17.8.5 (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Line-type detection to be installed in accordance with NFPA:17.6.3.1.3.2 (2010 edition)?
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>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 NFPA 72:17.13 (2010 edition) and 2014 IBC 904.3.5. 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 2014 IBC 903.4.?
The following are monitored for the sprinkler system per 2014 IBC 903.4:	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All valves controlling water supply
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Water tank level
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Water tank temperature
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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 NFPA 20 7-4.7 (a) (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The loss of <u>any</u> phase at the line terminals of the motor contactor for the fire pump is monitored per NFPA 20 7-4.7(b) (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Phase reversal</u> of line terminals to the motor contactor for the fire pump is monitored per NFPA 20 7-4.7(c) (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The <u>alternate source of power</u> 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 NFPA 20 7-4.7(d) (2010 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 NFPA 72: 23.8.5.9.1 (2010 edition)?
<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 NFPA 72:23.8.5.9.2 (2010 edition)?
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>Skip to next section.</i>



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<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 NFPA 72:17.7.5.6.1 (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Where smoke door is accomplished directly from the smoke detector, the detector shall be listed for releasing service in accordance with NFPA 72:17.7.5.6.3 (2010 edition)?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Location and spacing of smoke detectors are installed in accordance with NFPA 72:17.7.5.6.5.1 through 17.7.5.6.6.2 (2010 edition)?
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>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 NFPA 72:21.3.1 (2010 edition)?
<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 and the control unit shall be permanently marked as " ELEVATOR RECALL CONTROL AND SUPERVISOR PANEL " the control unit is shown on the submitted drawings in accordance with NFPA 72:21.3.2 (2010 edition)?
<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 NFPA 72:21.3.5 (2010 edition)?
<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 NFPA 72:21.3.6 (2010 edition)?
<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 NFPA 72:21.3.7 shall be "specifically intended" for these types of spaces (2010 edition) ... <i>i.e., heat detectors with sufficient RTI and Temperature ratings?</i>
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Any detector, when actuated that has initiated fire fighters recall shall also be annunciated at the Fire Alarm Control Unit(s) and remote annunciator(s) per NFPA 72:21.3.8 (2010 edition)?
<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 NFPA 72-21.3.9 (2010 edition)?
<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 NFPA 72: 21.3.12.1 & 21.3.12.2 (2010 edition)?
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 NFPA 72:21.4.1 (2010 edition)?
<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



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	engineering methods are used as specified in Annex B in accordance with NFPA 72:21.4.2 (2010 edition)?
<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 NFPA 72:21.4.3 (2010 edition)?
<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 NFPA 72:21.4.4 (2010 edition)?
<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 NFPA 72:21.4.5 (2010 edition)?

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



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Written narrative providing “intent” and “system description”

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

DISCLAIMER: *The information presented above is 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)



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