



FIRE ALARM SYSTEM ACCEPTANCE INSPECTION 2006 IFC AND 2002 NFPA 72

Date of Inspection: _____ Permit Number: _____
 Business/Building Name: _____ Address of Project: _____
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 Business/Building Name: _____ Address of Project: _____
 Contractor: _____ Contractor's Phone: _____

Reference numbers following checklist statements represent an NFPA code section unless otherwise specified.

<u>Pass</u>	<u>Fail</u>	<u>NA</u>	<u>General</u>
1. _____	_____	_____	Obtained a copy of the fire alarm installation certification and a Record of Completion from installer, 4.5.2.
2. _____	_____	_____	Approved plans are on site.
3. _____	_____	_____	Fire alarm control unit (FACU) or fire alarm control panel (FACP) and remote annunciator (RA) are installed consistent with approved plans, 4.4.6.1.1. and 7.10.
4. _____	_____	_____	A zone and legend map is provided at the (RA) or an approved location.
5. _____	_____	_____	Fire alarm zones are properly identified on the FACP and RA panels.
6. _____	_____	_____	The fire alarm system power supply is a dedicated 120 AC branch circuit, which is labeled.
7. _____	_____	_____	Type and gauge of wire or cable(s) for each circuit are consistent with the plans.
8. _____	_____	_____	Device location and installation are consistent with the plans.
9. _____	_____	_____	Pull stations are installed at the proper height and location, 42 in. to 48 in. and within the 200 ft. maximum travel distance.
10. _____	_____	_____	A Contractor Sound Pressure Level (dBA) Pretest Room Log is provided and verified with the use of a sound meter during a sound test.
<u>Operational</u>			
11. _____	_____	_____	Fire alarm audible notification devices sound throughout the occupancy providing a sound pressure level at least a minimum of 15 dBA above the average ambient noise level or 5 dBA above the maximum noise level. For bedrooms with closed door provide at least 75 dBA at the pillow, IFC 907.10.2.
12. _____	_____	_____	Fire alarm audibles are a three-pulse temporal pattern unless they were permitted to match existing audible devices, 6.8.6.4.1.
13. _____	_____	_____	Fire alarm visual notification device intensity (cd) ratings and settings, mounting height (80 in. to 96 in.), and location are consistent with the plans.
14. _____	_____	_____	Fire alarm notification devices will activate by operation of the sprinkler flow alarm.
15. _____	_____	_____	HVAC duct detectors are supervised by the fire alarm system, detectors are all tested to verify if it can sample the air stream, and that fans shutdown and visual and audible status alarm functions, Table 10.4.2.2.13(g).
16. _____	_____	_____	24-hour monitoring service agency received various signals during system tests.
17. _____	_____	_____	Verify that the correct and distinctive signals are received (alarm, trouble, and supervisory alarms), 4.4.3.3, 10.4.1.1
18. _____	_____	_____	Two monitoring circuits are provided; both circuits send correct signals to monitoring company within 90 seconds, Table 10.4.2.2.16.
19. _____	_____	_____	Verify proper operation of magnetic door-releasing hardware and/or ventilation shutdown.
20. _____	_____	_____	Sprinkler tamper switch causes trouble light and buzzer indication at the annunciator panel only (tamper and flow alarm are different type signals).
21. _____	_____	_____	Fire alarm emergency phone jacks, if provided, are operational.
22. _____	_____	_____	For air sampling and flame detectors, test the device in accordance with the manufacturer instructions.
23. _____	_____	_____	Resettable heat and smoke detectors, and pull stations are tested (5-10% sample of total).
24. _____	_____	_____	Trouble condition is created for each circuit.
25. _____	_____	_____	Remote annunciator receives the correct information.

26. ___ | ___ | ___ Battery load test: the system is switched to battery operation 24 hours before the test, and in the presence of the inspector, the notification devices are activated and operate for 5 to 8 minutes or 15 minutes for emergency voice alarms.
27. ___ | ___ | ___ Check battery charger, measure load voltage, and open circuit voltage.
28. ___ | ___ | ___ Test ground-fault monitoring circuit, if provided.
29. ___ | ___ | ___ Under primary and secondary power, perform these tests:
 ___ | ___ | ___ A. power light on and in normal condition, trouble signal when on secondary power
 ___ | ___ | ___ B. supervisory signals: fire pump power loss or phase reversal, water level/temp, pressure switches, control valves, etc.
 ___ | ___ | ___ C. silence switch functions
 ___ | ___ | ___ D. a 2nd alarm initiating zone overrides silence switch
 ___ | ___ | ___ E. trouble signals and FACU panel lights operate for each circuit tested; disconnect wires from devices and primary power supply to simulate trouble conditions
 ___ | ___ | ___ F. on secondary power, measure standby and alarm current demand
 ___ | ___ | ___ G. trouble and alarm reset switches operate
 ___ | ___ | ___ H. emergency voice alarms: the message is clear and distinct
 ___ | ___ | ___ I. initiating devices tested, audible sound pressure levels, and visuals operate
 ___ | ___ | ___ J. panel lamp test switch operates: if provided
 ___ | ___ | ___ K. field zones and device address signals corresponded with panel zones and addresses
 ___ | ___ | ___ L. elevator(s) recall to designated floor and alternate floor in accordance with the Elevator Code
30. ___ | ___ | ___ Other systems activate fire alarm: kitchen hood suppression system, clean agent, HVAC duct detectors, etc.
31. ___ | ___ | ___ As-builts are required when system installation is not consistent with the plans.
32. ___ | ___ | ___ Circuit loop resistance is within specifications and a test may be required if the system wiring has changed from the plans.
33. ___ | ___ | ___ Time from activating an initiating device to activation of a safety function or notification shall not exceed 10 seconds.
34. ___ | ___ | ___ Heat and spot smoke detectors are not within 4 in. of the sidewall, or if on the sidewall, the detector is 4 in. to 12 in. from the ceiling, 5.6.3.1, 5.7.3.2.1.
35. ___ | ___ | ___ Visual devices in a room or adjacent space with more than 2 devices within the field of view, the flash are synchronized, 7.5.4.1.2(3). Devices in a corridor with more than 2 devices within the field of view and a maximum spacing of 100 ft. are synchronized, 7.5.4.2.5 and 7.5.4.2.7.
36. ___ | ___ | ___ Supplemental (extra) visual devices are permitted to be mounted less than 80 in. above the floor, 7.7.2.
37. ___ | ___ | ___ Ceiling-mounted devices are listed for use and spaced in accordance with Table 7.5.4.1.1(b) and the approved plans.

***Note:** Additional testing criteria is found in NFPA 72: Chapter 10.

Additional Comments:

Inspection Date: _____

Approved or Disapproved

FD Inspector: _____

Inspection Date: _____

Approved or Disapproved

FD Inspector: _____

Inspection Date: _____

Approved or Disapproved

FD Inspector: _____