



MOBILE FIRE - RESCUE DEPARTMENT FIRE CODE ADMINISTRATION

Fire Alarm System Acceptance Inspection

Facility Name: _____

Facility Address: _____

Building Code Permit Number (if applicable) BLD- 20____ - _____

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

1. ____ Obtained a copy of the fire alarm installation certification and a Record of Completion from installer,
2. ____ Approved plans are on site.
3. ____ Fire alarm control unit (FACU) and remote annunciator (RA) are installed consistent with approved plans, .
4. ____ A zone and legend map is provided at the RA or an approved location.
5. ____ Fire alarm zones are properly identified on the FACU 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 pressure test.

Operational

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,
12. ____ Fire alarm audibles are a three-pulse temporal pattern unless they were permitted to match existing audible devices, .
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, 18.5.4. Audible devices mounted at least 90 in. and combination audible/visual devices 80 in. to 96 in.,
14. ____ Fire alarm voice notification is tested and documentation provided to verify it is distinguishable and understandable,
15. ____ Fire alarm notification devices will activate by operation of the sprinkler flow alarm.
16. ____ HVAC duct detectors are supervised by the fire alarm system, detectors are all tested to verify if they can sample the air stream, and that fans shut down and visual and audible status alarm functions,
17. ____ 24-hour monitoring service agency received various signals during system tests.
18. ____ Verify that the correct and distinctive signals are received (alarm, trouble, and supervisory alarms),
19. ____ Two monitoring circuits are provided, both circuits send correct signals to monitoring company within 90 seconds,
20. ____ Verify proper operation of magnetic door-releasing hardware and/or ventilation shutdown.
21. ____ Sprinkler tamper switch causes trouble light and buzzer indication at the annunciator panel only (tamper and flow alarm are different type signals).
22. ____ Fire alarm emergency phone jacks, if provided, are operational.

23. ____ For air sampling and flame detectors, test the device in accordance with the manufacturer's instructions.
24. ____ Resettable heat and smoke detectors, and pull stations are tested (5 to 10 percent sample of the total).
25. ____ Trouble condition is created for each circuit and the FACU responses appropriately.
26. ____ Remote annunciator receives the correct information.
27. ____ 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.
28. ____ Check battery charger, measure load voltage, and open circuit voltage.
29. ____ Test ground-fault monitoring circuit, if provided.
30. ____ 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
31. ____ Other systems activate fire alarm: kitchen hood suppression system, clean agent, HVAC duct detectors, etc.
32. ____ As-builts are required when system installation is not consistent with the plans.

- 33. ____ Circuit loop resistance is within specifications and a test may be required if the system wiring has changed from the plans.
- 34. ____ Time from activating an initiating device to activation of a safety function or notification shall not exceed 10 seconds.
- 35. ____ Heat and spot smoke detectors are not within 4 in. of the sidewall, or if on the sidewall, the detector is within 12 in. from the ceiling,
- 36. ____ Visual devices in a room or adjacent space with more than 2 devices within the field of view the flash are synchronized, . Devices in a corridor with more than 2 devices within the field of view and a maximum spacing of 100 ft., are synchronized,
- 37. ____ Visual devices are wall mounted 80 in. to 96 in. above the floor level unless otherwise permitted by the approved plans and AHJ, .
- 38. ____ Supplemental (extra) visual devices are permitted to be mounted less than 80 in. above the floor,
- 39. ____ Ceiling-mounted devices are listed for use and spaced in accordance with Table 18. and the approved plans.
- 40. ____ Mass notification systems are tested in accordance with Table 14..

*Note: Additional testing criteria can be found in NFPA 72: Chapter 14.

Acceptance Inspection ____ / ____ / 20__

Fire Code Administration Staff Captain

Employee Number