

Whitney Fire Protection District

Fire Alarm System Acceptance Inspection

2006 IFC and 2002 NFPA 72

Date of Inspection: _____ Permit Number: _____

Business/Building Name: _____ Address of Project: _____

Contractor: _____ Contractor's Phone: _____

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

- | Pass | Fail | NA | | <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) 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 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 is 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. |

Operational

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|-----|-----|-----|-----|--|
| 11. | ___ | ___ | ___ | Fire alarm signaling 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 signaling devices 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 an alarm initiating device. |
| 15. | ___ | ___ | ___ | HVAC duct detectors are supervised by the fire alarm system, detectors are 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 the supervising station 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 indicates a trouble signal at the annunciator panel. |
| 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. | ___ | ___ | ___ | Restorable detectors and pull stations are tested. |
| 24. | ___ | ___ | ___ | Trouble signal 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 minutes and 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 <u>power</u> , 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 second 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. ___ | ___ | ___ Corrected shop drawings shall be 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: _____

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