



## El Segundo Fire Department Fire Prevention Division

### Regulation F-2-b Standards for Fire Alarm Systems (Replaces Regulation 1006, issued 1/5/05)

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#### I. INTRODUCTION

- A. **Purpose:** The purpose of this regulation is to establish a consistent regulatory standard for fire alarm system component identification, testing and documentation.
- B. **Scope:** This regulation applies to fire alarm systems that are installed, modified or added to. This regulation provides specific requirements for testing methods, initiating device identification, annunciation at the fire alarm control panel, requirement for an annunciation panel and signage to identify under floor smoke detection and operation/maintenance manuals.
- C. **Authority:** El Segundo Municipal Code Sections 13-10-1 and 13-10-2, California Fire Code, Chapter 1, Division II, Section 102.9, and Section 907.1

#### II. RESPONSIBILITY

- A. Fire alarm system contractors shall be responsible for compliance with this regulation. Companies and Corporations that have fire alarm systems shall be responsible to ensure their contractors comply with this regulation.
- B. The Fire Prevention Division of the El Segundo Fire Department shall verify compliance with this regulation.

#### II. POLICY

When a fire alarm system is installed, modified or added to, plans shall be submitted to the Fire Department and a permit issued. The new installation, modification or addition shall have an acceptance test performed in the Fire Department's presence. The fire alarm contractor shall be responsible to comply with this Regulation and applicable NFPA Standards to obtain final approval.

#### III. PROCEDURES

- A. It is the responsibility of building owners or operators to have all fire alarm system work performed under an approved permit and to have an acceptance test witnessed by the Fire Department.
  - 1. Every new fire alarm system or a revision or addition to an existing fire alarm system must be submitted for plan check through the Building Safety Dept. to this department. Plan submittals shall be made in accordance with Procedure 12-1 and approved prior to installation.
- B It is the responsibility of the affected fire alarm contractor to comply with this Regulation, applicable NFPA Standards, and to have the fire alarm system work permitted and acceptance test witnessed by the Fire Department
- C. It is the responsibility of the Fire Prevention Division to review and approve fire alarm plans, witness acceptance testing and approve all fire alarm work.
- D. All new fire alarm systems shall be completed and approved prior to occupancy of the building. Revisions to and additions to existing fire alarm systems shall be completed and approved prior to the approval of the modification or addition to the building necessitating the change in the system. Any exception to this requirement must be approved in writing by the Chief prior to installation.
- C. Fire alarm system shall comply with the following minimum standards, in addition to adopted NFPA Standards:
  - 1. Smoke detection shall be tested using listed testing gas.
    - a. Magnets will not be acceptable.
  - 2. If a pre-engineered or engineered fire extinguishing system is installed, the alarm, supervisory and trouble alarms shall be interconnected to the building fire alarm system.
    - a. The fire protection system contractor shall be present at the fire alarm acceptance test to test the interconnection.
  - 3 All new fire alarm control panels and power supplies shall have a battery test in accordance with ESFD Procedure 03-1, "Fire Alarm System Secondary Power (Battery) Test Procedure".
    - a. For systems requiring a battery test, the Permit will not be finalized until the batteries are rechecked to verify full recharge.
  - 4 All life safety voice evacuation systems shall have an ohm impedance test performed in accordance with ESFD Interpretation # 03-2, "Verification of Emergency Voice/Alarm Communications System Wattage".

5. Form FPF-306, "Fire Alarm/Life Safety Pre-Test Sheet and Certification" shall be completed and presented to the inspector prior to start of the acceptance test.
  - a. **If the system is not pre-tested, the inspection will be stopped. The contractor will be responsible for any additional After-Hours Inspection and New Construction Re-Inspection fees.**
6. All addressable initiating devices must have the address identified on the device. The letters/numbers shall be a contrasting color, a minimum ¼ inch in height.
7. For addressable initiating devices, the location read out at the fire alarm control panel shall be identified to include the following:
  - a. Type of device (smoke, manual pull, duct detector, water flow, tamper, etc.)
  - b. The floor the device is located
  - c. The suite and/or room number the device is located
    - i. If a large area or corridor, identify to closest room or geographical location
8. A building layout, including walls, doors, room #, and initiating devices with their address shall be provided at final inspection.
  - a. Floor plans to be readable, preferably 11" x 17' size.
9. Initiating devices installed in the under floor area shall have a remote annunciator installed outside of the protected area.
10. Initiating devices installed in the under floor area shall be identified on the floor and/or at the ceiling where the initiating devices are installed. The signage shall have lettering with a minimum ¼ inch in height.
11. All new systems shall have an owner's manual, including the following items at a minimum, presented to the owner/occupant at final inspection:
  - a. Maintenance and operation instructions
  - b. System certification per NFPA 72
  - c. As-Built drawings

12. All central station/proprietary station systems shall have a certificate issued by the third party central/proprietary station certification service posted at the premises prior to final inspection.

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Approved By: James Carver, Fire Marshal