



El Segundo Fire Department Fire Prevention Division

Regulation E-2-d Maintenance and Test of Fire Protection Systems

I. INTRODUCTION

- A. **Purpose:** The purpose of this regulation is to establish a consistent regulation for the maintenance, testing and service of fire protection systems..
- B. **Scope:** These regulations apply to maintenance, testing and servicing of automatic sprinkler systems, standpipe systems, other fixed fire extinguishing systems including Halon, Clean Agent or CO₂ systems, systems for protection of commercial type cooking equipment and fire alarm systems.
- C. **Authority:** El Segundo Municipal Code Sections 13-10-1 and 13-10-2, California Fire Code, Chapter 1, Division II, Section 102.9

II. RESPONSIBILITY

- A. Individuals, Companies and Corporations that have fire protection systems shall be responsible for compliance with this regulation.
- B. The El Segundo Fire Department shall ensure that required inspection, testing and maintenance of fire protection systems is completed by competent individuals and the systems are inspected, tested and maintained in accordance with the adopted Standards and Fire Prevention Division Regulations.

II. POLICY

- A. Definitions
 - 1. Automatic fire extinguishing system – An approved system of devices and equipment which automatically detects a fire and discharges an approved fire-extinguishing agent onto or in the areas of the fire.
 - 2. Automatic sprinkler system – An automatic sprinkler system, for fire protection purposes, is an integrated system of underground and overhead piping designed in accordance with fire protection engineering standards. The system includes a suitable water supply. The portion of the system above the ground is a network of specially sized or hydraulically designed piping installed inside a structure or area, generally overhead, and to which automatic sprinklers are connected in a

systematic pattern. The system is usually activated by heat from a fire and discharges water over the fire area.

3. Fire Protection System – Approved devices, equipment and systems or combinations of systems used to detect a fire, activate an alarm, extinguish or control a fire, control or manage smoke and products of a fire or any combination thereof.
4. Inspection – A visual examination of a system or portion thereof to verify that it appears to be in operating condition and is free of physical damage.
3. Maintenance – Work performed to keep equipment operable or to make repairs.
3. Service – The performance of testing and maintenance on an automatic fire extinguishing system.
6. Testing – A procedure used to determine the status of a system as intended by conducting physical checks.

B. Requirements

1. Inspection, Testing and Maintenance – General Requirements
 - a. A license shall not be required to perform inspections. Inspections may be conducted by any person designated by the building owner or occupant.
 - b. Records of inspections, testing and maintenance required by CCR Title 19, Chapter 5 shall be made and retained for five years. Records of inspections, testing and maintenance of fire alarm systems, smoke control system be made and retained for three years.
 - c. A label identifying the fire alarm system has received the required inspection, the date of the inspection, the company who performed the inspection (including business address and telephone number) and the name and signature of the service technician who performed the testing and certified the fire alarm system shall be attached to the outside front cover of the fire alarm control unit. Records shall be available for inspection by the Fire Department.
 - d. The building or system owner shall insure immediate correction of any deficiencies noted during the inspections and/or testing.

- e. Inspections, testing and maintenance of water-based fire extinguishing systems shall be documented on the appropriate California State Fire Marshal's form (AES-1, AES-2, AES-3, AES-4, AES-5, AES-6, AES-7, AES-8, AES-9),
- f. Inspections, testing and maintenance of engineered and pre-engineered fire extinguishing systems shall be documented on a form identifying all components have been tested, the agent levels (if applicable) have been verified and the system is in normal operation or specific system deficiencies are identified.
- g. Inspections, testing and maintenance of fire alarm systems shall be documented on a form equivalent to Los Angeles Fire Department Form R-4, or a form identifying all components have been tested and the system is in normal condition or specific system deficiencies are identified.
- h. Inspections, testing and maintenance of smoke control and smoke removal systems shall be documented on a form identifying all components have been tested and the system is in normal operation or specific system deficiencies are identified.

2. Inspection, Testing and Maintenance Schedule

- a. All water-based fire extinguishing systems shall have inspections, testing and maintenance performed at the intervals identified in NFPA 25, Standard for the Inspection, testing and Maintenance of Automatic Fire Extinguishing Systems, 2006 California Edition or when an inspection by the Chief or his representative indicates that there is reason to believe that the system or device would fail to operate properly in an emergency.
- b. All engineered and pre-engineered fire extinguishing systems shall have inspections, testing and maintenance performed at the intervals identified in required by California Code of Regulations, Title 19, Division 1, Chapter 5 or when an inspection by the Chief or his representative indicates that there is reason to believe that the system or device would fail to operate properly in an emergency..
- c. All fire alarm systems shall be maintained and operable at all times and shall receive required inspections, testing and maintenance in accordance with the inspection, testing and maintenance schedule in NFPA 72, Fire Alarm and Signaling Code or when an inspection by the Chief or his representative indicates that there is reason to

believe that the system or device would fail to operate properly in an emergency.

- d. All smoke control/ smoke removal system shall be maintained and operable at all times and shall receive required inspections, testing and maintenance in accordance with the equipment manufacturer's requirements, not to exceed on an annual basis or when an inspection by the Chief or his representative indicates that there is reason to believe that the system or device would fail to operate properly in an emergency.

3. Inspection, Testing and Maintenance – General Requirements

- a. All testing and maintenance of water-based fire extinguishing systems, engineered and pre-engineered fire extinguishing shall be performed by a California State Contractors License Board Category C-16 Contractor or a contractor with a current A type license issued by the California State Fire Marshal.
- b. 5 year testing of all water-based fire extinguishing systems shall be witnessed by the El Segundo Fire Department. A contractor performing the testing shall contact the El Segundo Fire Department at (310) 524-2236 a minimum of 48 hours prior to conducting the test so that department personnel can witness the inspection, test and maintenance.
- c. Any testing or maintenance of a fire alarm system, smoke control or smoke removal system shall have at least one technician meeting the minimum service personnel requirements in NFPA 72, National Fire Alarm and Signaling Code, Section 10.4.3.1.
 - 1) Person (s) who are registered, licensed, or certified by a state or local authority to perform service on systems addresses within the scope of NFPA 72.
 - 2) Personnel who are certified by a nationally recognized certification organization acceptable to the authority having jurisdiction – NICET certified.
 - 3) Personnel who are factory trained and certified for the specific type and brand of system being serviced and who are acceptable to the authority having jurisdiction.
- d. The building or system owner shall ensure immediate correction of any deficiencies noted during the inspection, testing and/or

maintenance.

- e. Reports of the required service shall be submitted to the Fire Department within 30 days. Reports shall include details of service and discrepancies found. A follow-up report shall be submitted when corrections have been made, but in no case later than 60 days after the date of service inspection.

Issue Date: September 5, 2012

A handwritten signature in black ink, appearing to read 'James Carver', is positioned above the text 'Approved By: James Carver, Fire Marshal'.

Approved By: James Carver, Fire Marshal