



El Segundo Fire Department Fire Prevention Division

Regulation S-2-d Water-Based Fire Extinguishing Systems Servicing

I. INTRODUCTION

- A. **Purpose:** The purpose of this regulation is to establish a consistent regulatory standard for performing inspection, testing and maintenance of water-based fire extinguishing systems.
- B. **Scope:** These regulations apply to every structure hereafter constructed and to those existing structures designated by the Fire Chief.
- C. **Authority:** El Segundo Municipal Code Sections 13-10-1, California Fire Code, Section 101.4, California Code of Regulations, Title 19, section 904

II. RESPONSIBILITY

- A. Individuals, Companies and Corporations that have water-based fire extinguishing systems shall be responsible for compliance with this regulation.
- B. The Fire Prevention Division of the El Segundo Fire Department shall witness all Five Year Tests and verify compliance with this regulation.

II. POLICY

Water-based fire extinguishing systems (Fire sprinkler and standpipe systems, private fire main system) are required to have a inspection, testing and maintenance performed in accordance with California Code of Regulations, Title 19, Section 904. Every five years, a comprehensive inspection testing and maintenance is performed, commonly referred to as the Five Year Test. To provide for consistent application and enforcement, the Fire Department has developed specific requirements to be used during the Five Year Test. California Code of Regulations, Title 19, Division 1, Chapter 5 requires specific forms to be used when performing inspection, testing and maintenance of water-based fire protection systems. Failure to comply with the Title 19 requirements and this Regulation will result in department enforcement actions.

III. REQUIREMENTS

A. General Requirements

1. The El Segundo Fire Department shall witness all Five Year Tests.
 - a. The Department will not accept test reports with or without photographs where the test was not witnessed by the Department.
2. All Five Year Tests must be scheduled a minimum of 48 hours prior to the inspection.
3. All fees associated with the Five Year Test must be paid prior to the inspection. Fire Department personnel will not accept fee payment in the field.
4. The testing contractor will submit the service results on the applicable State Fire Marshal Forms AES 1, AES 2.1, AES 2.2, AES 2.3, AES 2.4, AES 2.5, AES 2.6, AES 2.7, AES 2.8, AES 2.9, AES 3, AES 3.1, AES 4, AES 4.1, AES 5.1, AES 5.2, AES 5.3, AES 5.4, AES 6, AES 7, and AES 8. Deficiencies and comments will be documented on Sate Fire Marshal Form AES 9. Repairs and corrections will be identified on form AES 10. No other fire departments reports will be accepted.
5. Knox Company FDC plugs must be installed on all fire department connections during Five Year Tests performed on or after July 1, 2005.
 - a. Knox FDC plugs can be ordered directly from the Knox Company, 1601 West Deer Valley Road, Phoenix, AZ 85027, telephone (800) 552-5669.
6. All fire department connections (FDC) shall have an identification sign, per ESFD Regulation S-2-c "Fire Department Connections and Fire Sprinkler System Control Valves", installed at the fire department connection.
7. In locations where the fire sprinkler system control valve(s) are hard to locate, an identification sign, per ESFD Regulation S-2-c "Fire Department Connections and Fire Sprinkler System Control Valves", must be installed at the fire sprinkler system control valve(s).
8. During the test, all wet pipe and dry pipe alarm valves shall have an internal inspection performed.
9. During the FDC back flow test, the check valve shall be removed, reversed, or mechanically held full open with out damaging the check valve or seat for the test. "Propping" of the check valve with rods, wrenches or wires will not be accepted.

- a. During the FDC back flow test, if the piping from the FDC inlet to the check valve can be visually inspected for debris, a flush of the FDC piping is not required.
10. The company performing the testing and maintenance must follow the CalFIRE, California State Fire Marshal's "Water Based Fire Protection Systems Discharge Best Management Practice Manual" for all water discharges.
11. All areas not protected by the fire sprinkler system must be identified to the Fire Department staff witnessing the test. They will provide a determination as to requiring fire sprinkler protection in these areas. Include in the report a narrative in the Comments section of the areas without fire sprinkler protection and the field determination.
12. All forms for service of water-based fire extinguishing systems must be submitted to the Fire Department. The completed 5 Year Test report must be submitted to the Fire Department staff member who witnessed the test within 5 business days upon completion of the inspection.
13. If corrections are required, CSFM Form AES 10 must be submitted after all deficiencies have been corrected. The report must be certified by the tester.
14. After certification, an approved CSFM service label shall be attached to the each riser, indicating the system has been certified. The label shall indicate the name of the company performing the service and the date the system was certified.
15. After completion, the applicable State Fire Marshal Forms AES 1, AES 2.1, AES 2.2, AES 2.3, AES 2.4, AES 2.5, AES 2.6, AES 2.7, AES 2.8, AES 2.9, AES 3, AES 3.1, AES 4, AES 4.1, AES 5.1, AES 5.2, AES 5.3, AES 5.4, AES 6, AES 7, and AES 8. shall be placed in the appropriated Address file, under the Inspection section.

Issue Date: October 1, 2014

Approved By: James Carver, Fire Marshal