



EL SEGUNDO FIRE DEPARTMENT Fire Prevention Division

Regulation S-2-c Fire Department Connections and Fire Sprinkler System Control Valves

I. INTRODUCTION

- A. **Purpose:** The purpose of this regulation is to establish a consistent regulatory standard for securing and identifying fire department connections and fire sprinkler control valves
- 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, Sections 1-2.9 and 101.4.

II. RESPONSIBILITY

- A. Individuals, Companies and Corporations that have fire sprinkler systems shall be responsible for compliance with this regulation.
- B. The Fire Prevention Division of the El Segundo Fire Department shall verify compliance with this Regulation.

II. POLICY

Two of the public accessible components of a fire sprinkler system are the fire department connection and fire sprinkler system control valves. Without the fire department connection, there is no access to supplant the fire sprinkler system water supply. Closure of fire sprinkler control valves account for over 80 percent of large losses in sprinklered buildings. Due to the importance of the fire department connection and fire sprinkler control valves, and securing these components will result in reliable fire sprinkler systems, the Fire Department has developed these regulations to ensure they are secured and easily accessible during a fire incident.

III. REQUIREMENTS

- A. General Requirements

1. Fire Department connections shall have Knox Company FDC plugs installed in each fire department connection inlet. The Knox Company FDC plugs shall be installed during the five year service test performed on or after July 1, 2005, or at the time a new system is placed in service.
 - a. Knox FDC plugs can be ordered directly from the Knox Company, 1601 West Deer Valley Road, Phoenix, AZ 85027, telephone (800) 552-5669
2. The center of the fire department connection outlets shall be located between 18 and 24 inches above grade.
3. All fire department connections shall be painted red in color, or where for aesthetics, have a polished brass or chrome finish.
4. An identification sign meeting the following specifications shall be installed at each fire department connection.
 - a. Sign sizes to fit required lettering height and stroke
 - b. Sign stock shall be .08 gauge, reflectorized aluminum
 - c. All lettering shall be white reflective on red reflective background
 - d. "FDC" lettering shall be 3 inches in height with a ½ inch paint stroke
 - e. System type lettering shall be 1 ½ inches in height with a ¼ inch paint stroke
 - i. System types as follows:
 - "Auto Sprinkler" for fire sprinkler system
 - "Deluge System" for deluge system
 - "Dry Standpipe" for dry standpipe system
 - "Wet Standpipe" for wet standpipe system
 - "Combination Standpipe" for combination wet standpipe and fire sprinkler system
 - f. Address and Street lettering shall be 1 ½ inches in height with a ¼ inch paint stroke
 - g. Include System PSI for pump systems only. System PSI lettering to be the operating pressure the fire protection system is designed to. Lettering shall be 1 ½ inches in height with a ¼ brush stroke.
 - h. Sign shall be mounted by the following:
 - i. On a sign post with the bottom of the sign a minimum 5 feet from grade, or
 - ii. If the fire department connection is installed next to a structure, attached to the structure above the fire sprinkler control valve.
5. Fire sprinkler system control valves shall be secured with a chain or cable and a break-away padlock.
 - a. Where approved by the Fire Prevention Division, non break-away padlocks may be used.
6. Where not easily identified, exterior fire sprinkler system control valves shall be identified as follows:
 - a. Sign sizes to fit required lettering height and stroke

- b. Sign stock shall be .08 gauge, reflectorized aluminum
 - c. All lettering shall be white reflective on red reflective background
 - d. "Fire Sprinkler System Control Valve" lettering shall be 1 1/2 inches in height with a 1/4 inch paint stroke
 - e. System # lettering shall be 1 inch in height with a 1/4 inch paint stroke
 - i. Provide System # for multiple systems
 - f. Address and Street lettering shall be 1 1/2 inches in height with a 1/4 inch paint stroke
 - g. Sign shall be mounted by the following:
 - i. On a sign post with the bottom of the sign a minimum 5 feet from grade, or
 - ii. If the fire sprinkler control valve is installed next to a structure, attached to the structure above the fire sprinkler control valve.
7. Where not easily identified, interior fire sprinkler system control valves shall be identified as follows:
- a. Sign sizes to fit required lettering height and stroke
 - b. Sign stock can be .08 gauge, reflectorized aluminum or durable plastic
 - c. "Fire Sprinkler System Control Valve" lettering shall be 1 inches in height with a 1/4 inch paint stroke
 - d. System # lettering shall be 1 inch in height with a 1/4 inch paint stroke
 - i. Provide System # for multiple systems
 - e. Sign shall be mounted by the following:
 - i. On the access door to the fire sprinkler system control valve.

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Approved By: James Carver, Fire Marshal

