

## 8-25 FIRE SPRINKLER SYSTEMS

### SECTION:

8-25-010: Scope

8-25-015: Installation Permits

8-25-020: Installation

8-25-030: Maintenance

#### **8-25-010: Scope:**

(1) These rules and regulations shall apply to the installation, maintenance and testing of required automatic fire sprinkler systems by the Kennewick Municipal Code or International Fire Code.

(2) These standards shall apply to newly installed automatic fire sprinkler systems. Existing systems shall be considered exempt from these requirements provided the system was installed in accordance with the original new construction requirements; and in the opinion of the Fire Marshal, do not compromise minimum fire and life safety standards for the structure or occupants. Existing systems shall be inspected, maintained and tested at least annually in accordance with this chapter.

(3) Buildings undergoing major renovations or change of occupancy classification shall be required to bring existing systems into compliance with the current minimum standards of this section.

#### **8-25-015: Installation Permits:**

(1) Construction plans and documents for fire sprinkler systems shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of the International Fire and Building Codes, applicable NFPA 13 standard (13, 13D or 13R), and this section. Two (2) complete sets shall be submitted for review, approval and a permit prior to installation.

(2) Construction plans and documents for fire sprinkler systems shall be submitted for review, approval and a permit prior to installation.

(3) Construction plans shall be approved and stamped by a registered Fire Protection Engineer, and stamped by a certified sprinkler designer or installer in compliance with WAC 212-80 (Washington Administrative Code) prior to submittal to the Fire Department.

#### **8-25-020: Installation:**

(1) Automatic fire sprinkler systems shall not be altered, extended or installed without prior approval of the Fire Marshal.

(2) Automatic fire sprinkler systems shall be designed and installed in accordance with the National Fire Protection Association (NFPA) - Standard 13, "Installation of Sprinkler Systems" and the International Building and Fire Codes and WAC 212-80 (Washington Administrative Code) as applicable.

(3) Fire sprinkler plans shall be reviewed, approved and stamped by a registered Fire Protection Engineer verifying compliance with NFPA-13, 13D or 13R as applicable, and

the International Building Code. Two (2) complete sets of sprinkler plans and hydraulic calculations shall be submitted to the Fire Marshal for review, approval and a permit prior to installation.

- (4) Fire sprinkler systems shall have the following features:
  - (a) An exterior wall or remote post indicator shut-off valve (PIV) installed at an approved location.
  - (b) The fire department connection (FDC) shall be installed within a maximum travel distance of 90 feet from a fire hydrant.
  - (c) All shut-off valves (to include PIV), pressure and water-flow switches shall be electronically supervised by a fire alarm panel in accordance with NFPA Standards 13 and 72.
  - (d) Buildings with fire sprinkler systems shall also have interior emergency evacuation audibility installed (similar to fire alarm systems) utilizing ADA approved horn/strobes installed at locations in accordance with the International Fire Code and Washington State ADA standards.

EXCEPTION: Existing automatic fire sprinkler systems shall be exempt from interior audibility requirements unless mandated as part of a building renovation or addition project.

(5) Sprinkler systems shall be supervised by an approved fire alarm control panel in accordance with the National Fire Protection Association (NFPA) Standard 72 “National Fire Alarm Code.” All signals from the system shall be transmitted directly to an approved central monitoring station.

(6) Buildings with fire sprinkler systems shall also have an approved emergency key box in accordance with Section 8-21-050.

**8-25-030: Maintenance:**

(1) Fire Sprinkler systems shall be maintained in an operative condition at all times, and shall be replaced and repaired where defective.

(2) All repair, maintenance and testing of the fire sprinkler systems shall be performed by a Washington State licensed sprinkler contractor in accordance with WAC 212-80.

(3) Fire sprinkler systems shall be inspected and tested at least annually. Inspection and testing shall be conducted in accordance with the National Fire Protection Association Standard 25 “Inspection, Testing, and Maintenance of Water-Based Fire-Protection Systems.” A copy of the inspection and testing report shall be kept on the premises and made available upon request of inspection personnel, and one (1) copy shall be promptly forwarded to the Fire Marshal’s Office. (See Section 8-27-010 for electronic submittal requirements for confidence testing reports)