



AAA Fire Safety & Alarm  
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NFPA: National Fire  
Protection Association

Automatic Fire Sprinkler  
systems can be installed in  
wet or dry pipe  
configurations.

Fire Sprinkler piping can  
be obstructed by:  
Rust formed by the  
chemical reaction between  
water, oxygen, and steel.  
Microbiological influenced  
corrosion. (MIC)

## Automatic Fire Sprinkler 5 Year Inspection



### Requirements

The Utah State Fire Marshal's office, as of April 1, 2010, mandates that all Automatic Fire Sprinkler Systems require a five year inspection sticker placed on the system riser to indicate that a five year inspection has been performed. If your system is more than five years old and does not have a five year sticker on the main riser, it is due for a five year inspection per NFPA 25 as adopted by the Utah State Fire Marshal's office.

An Automatic Fire Sprinkler system is built of various components. Each component of a system has individual codes applicable under NFPA 25. During a five year inspection all weekly, monthly, quarterly, semiannual, and annual inspection procedures are completed in addition to the five year inspection requirements.

### NFPA 25 - 5 Year Inspection Codes and References

12.2.8.2 - Gauges shall be replaced every 5 years or tested every 5 years by comparison with a calibrated gauge.

12.4.1.2 - Alarm valves and their associated strainers, filters, and restriction orifices shall be inspected internally every 5 years unless tests indicate a greater frequency is necessary.

#### 12.4.2 - Check Valves

12.4.2.1 - Inspection. Valves shall be inspected internally every 5 years to verify that all components operate correctly, move freely, and are in good condition.

12.4.2.2 - Maintenance. Internal components shall be cleaned, repaired, or replaced as necessary in accordance with the manufacturer's instructions.

#### 12.4.3 - Preaction Valves and Deluge Valves

12.4.3.1.7.1 - Internal inspection of valves that can be reset without removal of a faceplate shall be permitted to be conducted every 5 years.

12.4.3.1.8 - Strainers, filters, restricted orifices, and diaphragm chambers shall be inspected every 5 years unless tests indicate a greater frequency is necessary.

#### 12.4.4 - Dry Pipe Valves/Quick-Opening Devices

12.4.4.1.6 - Strainers, filters, and restricted orifices shall be inspected internally every 5 years unless tests indicate a greater frequency is necessary.

#### 12.5 - Pressure Reducing Valves and Relief Valves

12.5.1.2 - A full flow test shall be conducted on each valve at 5-year intervals and shall be compared to previous test results.

#### 12.5.2 - Hose Connection Pressure Reducing Valves

12.5.2.2 - A full flow test shall be conducted on each valve at 5-year intervals and shall be compared to previous test results.

13.2.1 - An investigation of piping and branch line conditions shall be conducted every 5 years by opening a flushing connection at the end of one main and by removing a sprinkler toward the end of one branch line for the purpose of investigating for the presence of foreign organic and inorganic material.



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Automatic Fire Sprinkler systems have been in use since 1874.



## NFPA 25 - 5 Year Inspection Codes and References (Continued)

### 6.3.1 - Standpipe Flow Test

6.3.1.1 - A flow test shall be conducted every 5 years at the hydraulically most remote hose connection of each zone of an automatic standpipe system to verify the water supply still provides the design pressure at the required flow.

6.3.2.1 - Hydrostatic tests at not less than 13.8-bar (200 psi) pressure for 2 hours, or at 3.4-bar (50 psi) in excess of the maximum pressure, where maximum pressure is in excess of 10.3-bar (150 psi), shall be conducted every 5 years on dry standpipe systems and dry portions of wet standpipe systems.

### Sprinkler Testing and Replacement

Extra high sprinkler heads are required to be tested or replaced every 5 years.

Fast response sprinkler heads are required to be tested at 20 years and every 10 years thereafter.

Standard response sprinkler heads are required to be tested at 50 years and every 10 years thereafter.

Dry pendant fast response sprinklers are required to be tested at 10 years.

Dry pendant regular response sprinklers are to be tested at 20 years.

### Scheduling Your 5 Year Inspection

For price and schedule information for this service and others please contact us at (801) 544-7345 or at <http://www.aaafireutah.com> through our contact page.

Thank you, we appreciate the opportunity to serve your fire protection needs.