



Water Based Fire Protection Systems Code Requirements for Visual Inspection

Weekly

- Cold Weather Enclosures (daily/weekly)
- Fire Pumps
 - Pump House heating & ventilation
 - Pump system visual observation
 - Casing Relief Valves
 - Pressure Relief Valves
- Valves, Valve Components, & Trim
 - Sealed control valves
- Gauges (dry, preaction, deluge systems & standpipe)

Monthly

- Valves, Valve Components, & Trim
 - Locked/Supervised control valves
 - Alarm Valves/System Riser Check Valves
 - Exterior
 - Preaction & Deluge Valves
 - Exterior
 - Dry Pipe Valve/Quick-Opening Device
 - Exterior
- Backflow Prevention Assemblies
 - Reduced Pressure
 - Reduced Pressure Detector
- Gauges (wet system)
- Waterflow alarm devices
- Supervisory alarm devices

Quarterly

- Valves, Valve Components, & Trim
 - Pressure Reducing & Relief Valves
 - System Valves
- Fire Department Connections
- Private Fire Service
 - Hose Houses
- Hydraulic Nameplate
- Standpipe & Hose Systems
 - Hose Valves

Semi-Annually

- Private Fire Service
 - Monitor Nozzles

Annually

- Valves, Valve Components, & Trim
 - Preaction & Deluge Valves
 - Interior (internal reset valves)
 - Dry Pipe Valve/Quick-Opening Device
 - Interior
 - Pressure Reducing & Relief Valves
 - Hose Connection & Rack Assembly
- Building Temperatures (min 40 degrees areas of water filled pipe)
- Pipe & Fittings (from floor level)
- Hangers & Seismic Bracing (from floor level)
- Sprinklers (from floor level)
- Spare Sprinklers
- Information Sign
- Standpipe & Hose Systems
 - Cabinet
 - Hose
 - Hose Storage Device
 - Hose Nozzle
 - Hydraulic design information sign
- Private Fire Service
 - Hydrants
 - Mainline Strainers

5-Year

- Valves, Valve Components, & Trim
 - Alarm Valves
 - Interior
 - Strainers
 - Filters
 - Orifices
 - Preaction & Deluge Valves
 - Interior (external reset valves)
 - Strainers
 - Filters
 - Orifices
 - Dry Pipe Valve/Quick-Opening Device
 - Strainers
 - Filters
 - Orifices
 - Check Valves
 - Interior
- Pipe (interior)

Water Based Fire Protection Systems Code Requirements for Functional Testing & Maintenance

Weekly

Fire Pumps
 No-Flow churn test (diesel)

Monthly

Fire Pumps
 No-Flow churn test (electric)

Quarterly

Waterflow alarm devices (mechanical)
Main Drain
Valves, Valve Components, & Trim
 Preaction & Deluge Valves
 Priming Water
 Low Air Pressure Alarm
Dry Pipe Valve
 Priming Water
 Low Air Pressure Alarm
 Quick- Opening Device
Pressure Reducing & Relief Valves
 Master Pressure Reducing Valve (partial flow)

Semi-Annually

Waterflow alarm devices (vane & pressure)
Valves, Valve Components, & Trim
 Control Valves
 Supervisory alarm devices

Annually

Air Pressure Maintenance Device
Valves, Valve Components, & Trim
 Control Valves
 Position & Operation
 Maintenance
Preaction & Deluge Valves
 Full Flow
Dry Pipe Valve
 Trip Test (short trip)
Pressure Reducing & Relief Valves
 Master Pressure Reducing Valve (full flow)
 Circulation Relief
 Pressure Relief Valve

Annually

- Backflow Prevention Assemblies
 - Full Forward Flow Test
 - Backflow Test (check local AHJ)
- Antifreeze Solution
- Standpipe & Hose Systems
 - Hose Storage Device
 - Hose Valve (operation & position)
- Private Fire Service
 - Monitor Nozzles (flow)
 - Hydrants (flow & maintenance)
- Sprinklers protecting cooking and ventilation systems (inspect/replace)
- Fire Pumps
 - Full Flow Condition Test
 - Alarm Signals
 - Annual Maintenance

3-Year

- Valves, Valve Components, & Trim
 - Dry Pipe Valve
 - Full Flow Trip Test
 - Air Leakage Test
- Standpipe & Hose Systems
 - Hose

5-Year

- Valves, Valve Components, & Trim
 - Pressure Reducing & Relief Valves
 - System Valves (full flow)
 - Hose Connection & Rack Assembly (full flow)
- Gauges
- Sprinklers-Extra High Temperature
- Standpipe & Hose Systems
 - Hose
 - Hydrostatic Test
 - Flow Test
- Private Fire Service
 - Piping Underground & Exposed (flow test)

10-Year & Greater

- Sprinklers- Dry (10 years and every 10 years thereafter)
- Sprinklers- Fast Response (20 years and every 10 years thereafter)
- Sprinklers- Standard Response (50 years and every 10 years thereafter)
- Sprinklers- Standard Response (75 years and every 5 years thereafter)

Other Required Maintenance & Testing

- Low Point Drains
- Air Compressors
- Water Storage Tanks, Water Spray Systems & Foam Systems (not included in list)