

# Code Requirements for **Functional Inspections**

See Flip-Side for Code Requirements **Visual Inspections**

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|--|---|--|---|---|
| <p><b>MONTHLY</b></p>                      | <p><b>AUTOMATIC FIRE ALARM SYSTEMS</b><br/><b>ULC S536</b><br/><b>Daily and Monthly Status Check</b><br/>Supervisory field devices, Supervisory circuits and DCL, in-and-out conductors of supervised circuits, ancillary device control circuit, one initiating field device, operation of common audible and visual trouble signals, one emergency phone, voice paging capability to one zone. Battery terminals are clean and lubricated, terminal clamps are secure, electrolyte level and specific gravity.</p>                        |  | <p><b>PORTABLE FIRE EXTINGUISHERS</b><br/><b>NFPA 10</b><br/>Ensure in proper operating condition. Safety seals, tags, pressure gauge readings, HMIS Label</p>  | <p><b>EMERGENCY LIGHTS NFPA 101</b><br/>30 seconds quick check and battery check<br/><br/><b>FIRE PUMP NFPA 25</b><br/>Weekly system procedures. Electric 10 min. Diesel 30 min.</p>  |
| <p><b>QUARTERLY</b></p>                    | <p><b>SPRINKLERS NFPA 25</b><br/>Mechanical Water Flow Devices</p>  | <p><b>Valves, Valve Components</b><br/>Low Air Pressure Alarms</p>   | <p>Quick Opening Devices<br/>Priming Water</p>  |   |
| <p><b>SEMI-ANNUALLY</b></p>                | <p><b>HOOD SUPPRESSION SYSTEM NFPA 17A</b><br/>All Kitchen Suppression Systems</p>  | <p><b>SPRINKLERS NFPA 25</b><br/>Valve Supervisory Devices</p>   |   |   |
| <p><b>ANNUALLY</b></p>                     | <p><b>PORTABLE FIRE EXTINGUISHERS NFPA 10</b><br/>Conductivity test of all carbon dioxide hose assemblies. Ensure in proper operating condition. Safety seals, tags, pressure gauge reading, HMIS table. Empty and recharge all stored pressure loaded stream fire extinguishers.<br/><br/><b>AUTOMATIC FIRE SYSTEMS NFPA 72, ULC S536</b><br/><b>Control Equipment: Building Systems Connected to Alarm Supervising Station</b><br/>Functions, Fuses, Interface Equipment, Lamps &amp; LEDs, Primary (main) Power Supply, Transponders</p> | <p><b>Batteries - Fire Alarm Systems</b><br/><b>Control Unit Trouble Signs</b><br/><b>Emergency Voice/Alarm Communications Equipment</b><br/><b>Remote Annunciators</b><br/><b>Initiating Devices</b><br/>Duct Smoke Detectors<br/>Electromechanical Releasing Devices<br/>Fire Extinguishing System(s) or Suppression System(s)<br/>Switches<br/>Fire Alarm Boxes (Pull Stations)<br/>Heat Detectors<br/>All Smoke Detectors - Functional<br/>Fire - Gas and other detectors<br/><b>Interface Equipment</b><br/><b>Special Hazard Equipment</b></p> | <p><b>Alarm Notification Devices</b><br/>Audible Devices<br/>Audible Textual Notification Appliances<br/>Visible Devices<br/><b>Supervising Station Fire Alarm System - Transmitters</b><br/>DACT, DART<br/><b>Special Procedures</b><br/><br/><b>SPRINKLERS NFPA 25</b><br/>Main Drain<br/>Antifreeze Solution<br/><b>Valves, Valve Components</b><br/>Pressure Reducing Valves/Relief Valves (part flow)<br/>Master Pressure Reducing Valves (full flow)<br/>Control Valves</p> | <p>Dry System, Partial Trip Test<br/>Deluge, Preaction Full Trip Test<br/>Air Maintenance Device<br/><b>Backflow Prevention Assemblies</b><br/>Full Forward Flow Test<br/><b>Standpipe</b><br/>Main Drain Test<br/>Hose Valves<br/>Valves (all types)<br/><b>Private Fire Service</b><br/>Monitor Nozzles<br/>Hydrants<br/><b>Fire Pump System</b><br/>Full Flow<br/>Annual Maintenance</p> |
| <p><b>3 YEAR INTERVAL</b></p>              | <p><b>SPRINKLERS NFPA 25</b><br/>Dry System Full Flow Trip Test<br/>Dry System Air Leakage</p>  |  |   |   |
| <p><b>5 YEAR INTERVAL</b></p>              | <p><b>PORTABLE FIRE EXTINGUISHERS NFPA 10</b><br/>Hydrostatic testing of Carbon Dioxide, Wet Chemical and Foam<br/>Dry System Air Leakage<br/>Fire Extinguishers<br/>Hydrostatic testing of cartridges associated with portable fire extinguishers and wheeled units</p>  | <p>Hydrostatic testing of carbon dioxide hoses equipped with a shut-off valve<br/><br/><b>SPRINKLERS NFPA 25</b><br/>Gauges<br/>Sprinklers – Extra-high Temperature/ Corrosive Atmosphere</p>  | <p><b>Fire Department Connections</b><br/>Hydrostatic Test Siamese Connections, in some locations (city of Pittsburgh every 3 years)<br/><b>Standpipe - Full Flow Test Remote Point</b><br/>Hose Connection Pressure Reducing Valves (full flow)<br/>Hydrostatic Test Manual/Dry Standpipes</p>   | <p><b>STANDPIPE HOSES</b><br/>5 year test for new hoses and every 3 years thereafter<br/><b>Valves, Valve Components</b><br/>Pressure Reducing Valves/Relief Valves (full flow)<br/><b>Private Fire Service</b><br/>Full Flow Test</p>  |
| <p><b>6 YEAR INTERVAL</b></p>              | <p><b>PORTABLE FIRE EXTINGUISHERS NFPA 25</b><br/>Stored-pressure extinguishers requiring 12 year hydro-static test shall be emptied and subjected to applicable maintenance procedures.</p>  |  |   |   |
| <p><b>12 YEAR INTERVAL</b></p>             | <p><b>PORTABLE FIRE EXTINGUISHERS NFPA 10</b><br/>Hydrotest of dry chemical hose equipped with a shut-off valve</p>   | <p><b>HOOD SUPPRESSION SYSTEM NFPA 17A</b><br/>Hydrostatic Testing</p>   | <p>Cylinder<br/>Replacement of cartridge<br/>Regulator Test</p>   | <p>Wet Chemical Containers<br/>Auxiliary Pressure Containers<br/>Hose Assemblies</p>  |
| <p><b>10 YEAR INTERVAL AND GREATER</b></p> | <p><b>SPRINKLERS NFPA 25</b><br/>Dry Type: At 10 years and every 10 years thereafter</p>  | <p>Quick Response: At 20 years and every 10 years thereafter<br/>Standard: At 50 years and every 10 years thereafter</p>   |   |   |

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Code Requirements for both Functional and Visual Inspections is intended to be a guide and reference. Per applicable NFPA provisions, it is not all inclusive and is not intended to be used as a checklist for code compliance. Most commonly referenced and enforced codes have been included. CA and other state codes may differ. Please consult a fire protection inspection professional to maintain compliance within your jurisdiction. Shambaugh & Son, L.P. disclaims liability for losses related to anyone's reliance on this document, and recommends you contact S&S for compliance. (Note that applicable codes change regularly. This document effective October 2019.)

NFPA 72: 2007 edition, NFPA 25: 2008 edition,  
NFPA 10: 2002 edition, ULCS536: 2004 edition



# Code Requirements for Visual Inspections

See Flip-Side for Code Requirements **Functional Inspections**

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|-----------------------------|--|--|--|---|
| <p><b>DAILY/WEEKLY</b></p>  | <p><b>SPRINKLERS NFPA 25</b><br/>Gauges (Dry, Preaction, and Deluge Systems)<br/>Cold Weather Enclosures (daily/weekly)</p>  | <p><b>Valves, Valve Components, Trim Inspections</b><br/>Sealed Control Valves<br/>Master Pressure Reducing</p>  | <p><b>Fire Pump System</b><br/>Casing Relief Valves<br/>Pressure Relief Valves<br/>Pump House, Heating Ventilating Louvers<br/><b>Backflow Prevention Assemblies</b><br/>Reduced Pressure<br/>Reduced Pressure Detectors</p>   | <p>Control Valves (locked/supervised)<br/><b>Standpipe</b><br/>Sealed Control Valves</p>  |
| <p><b>MONTHLY</b></p>       | <p><b>PORTABLE FIRE EXTINGUISHERS NFPA 10</b><br/>Location Pressure Tamper Indicator, Hose/Nozzle Sign, Hanger, Hazard Assessment, HMIS Label<br/>Location in designated place<br/>No obstruction to access or visibility<br/>Operating instructions on nameplate legible and facing outward<br/>Safety seals and tamper indicators not broken or missing<br/>Fullness determined by weighing or "hefting"<br/>Examination for obvious physical damage, corrosion, leakage or clogged nozzle</p> | <p>Pressure gauge reading or indicator in the operable range or position<br/>Condition of tires, wheels, carriage, hose, and nozzle checked (for wheeled units)<br/>HMIS Label in place</p> <p><b>AUTOMATIC FIRE ALARM NFPA 72, ULC S536</b><br/><b>Control Equipment: Fire Alarm Systems Unmonitored for Alarm, Supervisory, and Trouble Signals</b></p>                                    | <p><b>SPRINKLERS NFPA 25</b><br/>Gauges (wet, dry, preaction, and deluge systems)</p> <p><b>Valves, Valve Components, Trim Inspections</b><br/>Locked/Supervised Control Valves<br/>Valve Supervisory Switches<br/>Tamper Switches<br/>Alarm Valves (exterior bells)<br/>Dry Pipe, Deluge, Preaction Valves<br/>Pressure Reducing Valves<br/><b>Backflow Prevention Assemblies</b><br/>Double Check Valves</p> | <p>Double Check Valves<br/>Control Valves (locked/supervised)<br/><b>Standpipe</b><br/>Control Valves (locked/supervised)</p> <p><b>EMERGENCY LIGHTS/EXIT SIGNS NFPA 101, 70</b><br/>Functional Test</p> <p><b>HOOD SUPPRESSION SYSTEM NFPA 17</b><br/>Owners Inspections</p>   |
| <p><b>QUARTERLY</b></p>     | <p><b>SPRINKLERS NFPA 25</b><br/>Alarm Devices<br/>Fire Department Connections<br/>Pressure Reducing and Relief Valves</p>   | <p>Sprinkler Systems<br/>Hose Connections<br/>Hose Racks</p>   | <p><b>Backflow Prevention Assemblies</b><br/>Fire Department Connections<br/>Standpipe<br/>Private Fire Service Maintenance</p>  |   |
| <p><b>SEMI-ANNUALLY</b></p> | <p><b>HOOD SUPPRESSION SYSTEM NFPA 96, NFPA 17, 17A</b><br/>Suppression System<br/>Fusible Link Replacement</p> <p><b>AUTOMATIC FIRE ALARM NFPA 72, ULC S536</b><br/><b>Control Equipment: Fire Alarm Systems Monitored for Alarm, Supervisory, and Trouble Signals</b><br/>Fuses<br/>Interfaced Equipment<br/>Lamps and LEDs</p>  | <p>Primary (main) Power Supply<br/><b>Control Equipment: Fire Alarm Systems Unmonitored for Alarm, Supervisory, and Trouble Signals</b><br/>Nickel-Cadmium<br/>Sealed Lead-Acid<br/>Transient Suppressors<br/>Control Unit Trouble Signals<br/>Emergency Voice/Alarm Communications Equipment<br/>Remote Annunciators</p>  | <p><b>Batteries</b><br/>Sealed Lead-Acid<br/><b>Initiating Devices</b><br/>Air Sampling Smoke Detectors<br/>Duct Smoke Detectors<br/>Electromechanical Releasing Devices<br/>Fire Extinguishing System(s) or Suppression System(s) Switches<br/>Fire Alarm Boxes (Pull Stations)<br/>Heat Detectors</p>  | <p>Smoke Detectors<br/>Interface Equipment<br/>Alarm Notification Appliances – Supervised<br/><b>Supervising Station Fire Alarm Systems – Transmitters</b><br/>DACT</p> <p><b>SPRINKLERS NFPA 25</b><br/><b>Private Fire Service</b><br/>Monitor Nozzles</p>  |
| <p><b>ANNUALLY</b></p>      | <p><b>HOOD SUPPRESSION SYSTEM NFPA 17, 17A</b><br/>Fusible Links<br/>Cartridge (Hydrostatic Test/Replacement)-PYROCHEM</p> <p><b>PORTABLE FIRE EXTINGUISHERS NFPA 10</b><br/>All of monthly inspection, plus conductivity test (Carbon Dioxide)<br/>Determination of 6 year or Hydrotest, inspection of shell and nameplate<br/>Hanger/Seismic bracing</p>   | <p><b>AUTOMATIC FIRE ALARM NFPA 72, ULC S536</b><br/><b>Control Equipment: Fire Alarm Systems Monitored for Alarm, Supervisory, and Trouble Signals</b><br/>Fuses<br/>Interfaced Equipment<br/>Lamps and LEDs<br/>Primary (main) Power Supply<br/><b>Control Equipment: Fire Alarm Systems Unmonitored for Alarm, Supervisory, and Trouble Signals</b><br/>Radiant Energy Fire Detectors</p> | <p>Supervisory Signal Devices<br/>Waterflow Devices</p> <p><b>SPRINKLERS NFPA 25</b><br/>Pipe and Fittings (from floor)<br/>Hangers/Seismic Bracing<br/>Sprinklers (from floor)<br/>Spare Sprinklers<br/><b>Standpipe</b><br/>Piping<br/>Hose Racks<br/>Hose Connections/Hose Valves<br/>Hose/Hose Nozzles</p>   | <p><b>Valves, Valve Components, Trim Inspections</b><br/>Interior Dry, Deluge, Preaction<br/>Pressure Reducing Valves</p> <p><b>Private Fire Service</b><br/>Hydrants<br/>Main Line Strainers</p> <p><b>EMERGENCY LIGHTS/EXIT SIGNS NFPA 101, 70</b><br/>90 Minute drain test and inspection, verification of charge voltage, alignment of heads, hazard assessment, inspection sticker, required paperwork</p> |
| <p><b>5 YEAR</b></p>        | <p><b>SPRINKLERS NFPA 25</b><br/>Internal Obstruction Investigation</p>  | <p><b>Valves, Valve components, Trim Inspections</b><br/>Strainers, Filters, Orifices</p>  | <p>Interior Check Valves<br/>Interior Alarm, Dry, Deluge, Preaction Valves</p>   |   |
| <p><b>12 YEAR</b></p>       | <p><b>HOOD SUPPRESSION SYSTEM NFPA 17, 17A</b><br/>Regulator</p>   | <p>Tank Cylinder (Hydrostatic Test)<br/>Cartridge (Hydrostatic Test/Replacement) - ANSUL</p>   | <p>Actuation Hose (Hydrostatic Test/Replacement)</p>   |   |

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