## Code Requirements for Inspections of Fire & Life Safety Systems and Equipment

### Daily and Weekly

<table>
<thead>
<tr>
<th>Sprinklers NFPA 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gauges (Dry, Preaction, and Deluge Systems)</td>
</tr>
<tr>
<td>Valves, Valve Components, Trim Inspections</td>
</tr>
<tr>
<td>Sealed Control Valves</td>
</tr>
<tr>
<td>Fire Pump System Casing</td>
</tr>
<tr>
<td>Relief Valves</td>
</tr>
<tr>
<td>Pump House, Heating Ventilating Louvers</td>
</tr>
<tr>
<td>Backflow Prevention Assemblies</td>
</tr>
<tr>
<td>Reduced Pressure</td>
</tr>
<tr>
<td>Control Valves (locked/supervised)</td>
</tr>
<tr>
<td>Standpipe</td>
</tr>
<tr>
<td>Sealed Control Valves</td>
</tr>
<tr>
<td>Gauges (Automatic Dry Standpipes)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alarm Systems NFPA 72, ULC S536</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Equipment: Fire Alarm Systems Unmonitored for Alarm, Supervisory, and Trouble Signals</td>
</tr>
<tr>
<td>Fuses</td>
</tr>
<tr>
<td>Interface Equipment</td>
</tr>
<tr>
<td>Lamps – LEDs</td>
</tr>
<tr>
<td>Primary Power</td>
</tr>
<tr>
<td>Trouble Signals</td>
</tr>
</tbody>
</table>

### Monthly

<table>
<thead>
<tr>
<th>Extinguishers NFPA 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location Pressure Tamper Indicator, Hose/Nozzle Sign, Hanger, Hazard Extinguishers Assessment, HMIS Label</td>
</tr>
<tr>
<td>Location in designated place</td>
</tr>
<tr>
<td>No obstruction to access or visibility</td>
</tr>
<tr>
<td>Operating instructions on nameplate legible and facing outward</td>
</tr>
<tr>
<td>Safety seals and tamper indicators not broken or missing Fullness determined by weighing or &quot;hefting&quot;</td>
</tr>
<tr>
<td>Examination for obvious physical damage, corrosion, leakage or clogged nozzle</td>
</tr>
<tr>
<td>Pressure gauge reading or indicator in the operable range or position</td>
</tr>
<tr>
<td>Condition of tires, wheels, carriage, hose, and nozzle checked (for wheeled units)</td>
</tr>
<tr>
<td>HMIS Label in place</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sprinklers NFPA 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gauges (Wet, Dry, Preaction, and Deluge)</td>
</tr>
<tr>
<td>Valves, Valve Components, Trim Inspections</td>
</tr>
<tr>
<td>Locked/Supervised Control Valves</td>
</tr>
<tr>
<td>Alarm Valves (exterior bells)</td>
</tr>
<tr>
<td>Dry Pipe, Deluge, Preaction Valves</td>
</tr>
<tr>
<td>Backflow Prevention Assemblies</td>
</tr>
<tr>
<td>Double Check Valves</td>
</tr>
<tr>
<td>Control Valves (locked/supervised)</td>
</tr>
<tr>
<td>Standpipe</td>
</tr>
<tr>
<td>Control Valves (locked/supervised)</td>
</tr>
<tr>
<td>Gauges (Automatic Dry Standpipes)</td>
</tr>
<tr>
<td>Private Fire Service Mains</td>
</tr>
<tr>
<td>Hose Houses</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E-Lights, Exit Signs NFPA 101</th>
</tr>
</thead>
<tbody>
<tr>
<td>Functional Test</td>
</tr>
</tbody>
</table>

### Quarterly

<table>
<thead>
<tr>
<th>Sprinklers NFPA 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waterflow Alarm and Signaling Devices, including mechanical devices (i.e. water monitor gongs)</td>
</tr>
<tr>
<td>Valve Supervisory Signal Devices</td>
</tr>
<tr>
<td>Supervisory Signal Devices (except valve supervisory switches)</td>
</tr>
<tr>
<td>Gauges (Wet Pipe Systems)</td>
</tr>
<tr>
<td>Fire Department Connections</td>
</tr>
<tr>
<td>Pressure Reducing and Relief Valves</td>
</tr>
<tr>
<td>Hydraulic Design Information Sign</td>
</tr>
<tr>
<td>Backflow Prevention Assemblies</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alarm Systems NFPA 72, ULC S536</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waterflow and Supervisory Devices</td>
</tr>
</tbody>
</table>

### Semi-Annually

<table>
<thead>
<tr>
<th>Hood Suppression NFPA 17, 17A, 96</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suppression System</td>
</tr>
<tr>
<td>Fusible Link Replacement</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sprinklers NFPA 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private Fire Service Mains</td>
</tr>
<tr>
<td>Monitor Nozzles</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alarm Systems NFPA 72, ULC S536</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Equipment: Fire Alarm Systems Monitored for Alarm, Supervisory, and Trouble Signals</td>
</tr>
<tr>
<td>Trouble Signals</td>
</tr>
<tr>
<td>Nickel-Cadmium</td>
</tr>
<tr>
<td>Sealed Lead-Acid</td>
</tr>
<tr>
<td>Transient Suppressors</td>
</tr>
<tr>
<td>Control Unit Trouble Signals</td>
</tr>
<tr>
<td>Emergency Voice/Alarm Communications Equipment</td>
</tr>
<tr>
<td>Remote Annunciators</td>
</tr>
<tr>
<td>Batteries</td>
</tr>
<tr>
<td>Sealed Lead-Acid</td>
</tr>
<tr>
<td>Initiating Devices</td>
</tr>
<tr>
<td>Air Sampling Smoke Detectors</td>
</tr>
<tr>
<td>Duct Smoke Detectors</td>
</tr>
<tr>
<td>Electromechanical Releasing Devices</td>
</tr>
<tr>
<td>Fire Extinguishing System(s) or Suppression System(s) Switches</td>
</tr>
<tr>
<td>Fire Alarm Boxes (Pull Stations)</td>
</tr>
<tr>
<td>Heat Detectors</td>
</tr>
<tr>
<td>Smoke Detectors</td>
</tr>
<tr>
<td>Interface Equipment</td>
</tr>
<tr>
<td>Alarm Notification Appliances – Supervised</td>
</tr>
<tr>
<td>Supervising Station Fire Alarm Systems – Transmitters</td>
</tr>
<tr>
<td>DACT</td>
</tr>
</tbody>
</table>
## Code Requirements for Inspections of Fire & Life Safety Systems and Equipment

<table>
<thead>
<tr>
<th>Annually</th>
<th>5 Years</th>
<th>10 Years</th>
</tr>
</thead>
</table>
| **Extinguishers**
  NFPA 10 | All monthly inspections, plus conductivity test-CO₂
          | Determine 6 yr or hydrotest, inspect shell unit
          | Hanger/seismic bracing
          | Hydrostatic testing of Carbon Dioxide, Wet Chemical, and Foam Fire Extinguishers | Internal Pipe Inspection/Assessment
          | Valves, Valve components, Trim Inspections
          | Strainers, Orifices
          | Interior Check Valves
          | Interior Alarm |
| **Hood**
  Suppression
  NFPA 17, 17A | Fusible Links
  Cartridge (Hydrostatic Test/Replacement) - PYROCHEM | Regulator
  Tank Cylinder (Hydrostatic Test) |
| **Sprinklers**
  NFPA 25 | Hangers/Seismic Bracing (from floor)
          | Pipe and Fittings (from floor)
          | Sprinklers (from floor)
          | Spare Sprinklers
          | Hydraulic Design Information Sign
          | Information Sign
          | Standpipe
          | Piping Hose
          | Racks
          | Hose Connections/Hose Valves
          | Hose/Hose Nozzles
          | Valves, Valve Components, Trim Inspections
          | Interior Dry, Deluge, Preaction
          | Pressure Reducing Valves
          | Private Fire Service Mains
          | Hydrants
          | Main Line Strainers | Cartridge (Hydrostatic Test/Replacement) – ANSUL
          | Actuation Hose (Hydrostatic Test/Replacement) |
| **Alarm Systems**
  NFPA 72,
  ULC S536 | Supervisory, and Trouble Signals ULC S536
          | Fuses
          | Interfaced Equipment
          | Lamps and LEDs
          | Primary (main) Power Supply
          | Control Equipment: Fire Alarm Systems Unmonitored for Fire, Supervisory, and Trouble Signals
          | Radiant Energy Fire Detectors
          | Supervisory Signal Devices
          | Waterflow Devices | |
| **E-Lights,**
  Exit Signs
  NFPA 101 | 90 Minute drain test and inspection, verification of charge voltage
          | Alignment of heads, hazard assessment, inspection sticker, required paperwork | |


The information contained herein should not be construed as legal advice, a statement of applicable laws, building or fire codes and regulations or a legal opinion based on specific facts. The information is only a general summary and the contents are intended for general information purposes only. You are urged to consult your local Authority Having Jurisdiction (AHJ) concerning your individual building and/or any specific legal or statutory compliance questions you may have.

Siemens Industry, Inc., Smart Infrastructure
1000 Deerfield Parkway
Buffalo Grove, IL 60089-4513
Tel. 847-215-1000
© 2019 Siemens Industry, Inc.
(2/2019, Part # 153-SBT-1042)
### Code Requirements for Functional Testing of Fire & Life Safety Systems and Equipment

<table>
<thead>
<tr>
<th>Monthly</th>
<th>Annually</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Extinguishers</strong> NFPA 10</td>
<td><strong>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.</strong></td>
</tr>
<tr>
<td>Fire Pumps NFPA 25</td>
<td><strong>Sprinklers</strong> NFPA 25</td>
</tr>
<tr>
<td>Weekly system procedures. Electric 10 min. Diesel 30 min.</td>
<td><strong>Main Drain</strong></td>
</tr>
<tr>
<td><strong>Alarm Systems NFPA 72, ULC 5536</strong></td>
<td>Antifreeze Solution</td>
</tr>
<tr>
<td>Daily and Monthly Status Check</td>
<td>Valves, Valve Components</td>
</tr>
<tr>
<td>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.</td>
<td>Pressure Reducing Valves/Relief Valves (part flow)</td>
</tr>
<tr>
<td><strong>EM Lighting NFPA 101</strong></td>
<td>Master Pressure Reducing Valves (full flow)</td>
</tr>
<tr>
<td>30 seconds quick check and battery check</td>
<td>Control Valves</td>
</tr>
<tr>
<td><strong>Quarterly</strong></td>
<td>Dry System, Partial Trip Test</td>
</tr>
<tr>
<td><strong>Sprinklers NFPA 25</strong></td>
<td>Deluge, Preaction Full Trip Test</td>
</tr>
<tr>
<td>Mechanical Water Flow Devices</td>
<td>Air Maintenance Device</td>
</tr>
<tr>
<td>Tank High and Low Alarms that do not Report to a Fire Panel that is Monitored 24 Hours a Day</td>
<td>Backflow Prevention Assemblies</td>
</tr>
<tr>
<td>Valves, Valve Components</td>
<td>Full Forward Flow Test</td>
</tr>
<tr>
<td>Hose Valves/PRVs</td>
<td>Private Fire Hydrant</td>
</tr>
<tr>
<td>Main Drain (with Backflow Device)</td>
<td>Standpipe</td>
</tr>
<tr>
<td>Low Air Pressure Alarms</td>
<td>Main Drain Test</td>
</tr>
<tr>
<td>Quick Opening Devices</td>
<td>Hose Valves</td>
</tr>
<tr>
<td>Priming Water</td>
<td>Valves (all types)</td>
</tr>
<tr>
<td>Master PRV Main Drain</td>
<td>Private Fire Service Mains</td>
</tr>
<tr>
<td><strong>Semi-Annually</strong></td>
<td>Monitor Nozzles</td>
</tr>
<tr>
<td><strong>Hood Suppression NFPA 17A</strong></td>
<td>Hydrants</td>
</tr>
<tr>
<td>All Kitchen Suppression Systems</td>
<td>Fire Pump System</td>
</tr>
<tr>
<td>Valve Supervisory Devices</td>
<td>Full Flow</td>
</tr>
<tr>
<td><strong>Sprinklers NFPA 25</strong></td>
<td>Alarm Signals</td>
</tr>
<tr>
<td>High/Low Tank Alarms</td>
<td>Annual Maintenance</td>
</tr>
<tr>
<td><strong>Alarm Systems NFPA 72, ULC 5536</strong></td>
<td><strong>Alarm Systems NFPA 72, ULC 5536</strong></td>
</tr>
<tr>
<td>Batteries - Fire Alarm Systems</td>
<td>Control Equipment: Building Systems Connected to Supervising Station</td>
</tr>
<tr>
<td>Sealed Lead-Acid – Load Voltage Test</td>
<td>Functions, Fuses, Interface Equipment, Lamps &amp; LEDs, Primary (main) Power Supply, Transponders</td>
</tr>
<tr>
<td>Control Valves</td>
<td>Batteries - Fire Alarm Systems</td>
</tr>
<tr>
<td>Waterflow Switches and Control Valves</td>
<td>Control Unit Trouble Signs</td>
</tr>
<tr>
<td><strong>Fire Dampers NFPA 80</strong></td>
<td>Emergency Voice/Alarm Communications Equipment</td>
</tr>
<tr>
<td>Test after first year, then every 4 years</td>
<td>Remote Annunciators</td>
</tr>
<tr>
<td>See code for additional provisions</td>
<td>Initiating Devices</td>
</tr>
<tr>
<td><strong>Fire Doors NFPA 80</strong></td>
<td>Duct Smoke Detectors</td>
</tr>
<tr>
<td>Inspection and testing for fire doors</td>
<td>Electromechanical Releasing Devices</td>
</tr>
<tr>
<td>Operational test for fire doors</td>
<td>Fire Extinguishing System(s) or Suppression System(s) Switches</td>
</tr>
<tr>
<td><strong>Special Hazard Equipment</strong></td>
<td>Fire Alarm Boxes (Pull Stations)</td>
</tr>
<tr>
<td><strong>Alarm Notification Devices</strong></td>
<td>Fire Phones</td>
</tr>
<tr>
<td>Audible Devices</td>
<td>Heat Detectors</td>
</tr>
<tr>
<td>Audible Textual Notification Appliances</td>
<td>All Smoke Detectors - Functional</td>
</tr>
<tr>
<td>Visible Devices</td>
<td>Fire - Gas and other detectors</td>
</tr>
<tr>
<td>Supervising Station Fire Alarm System – Transmitters DACT, DART</td>
<td></td>
</tr>
<tr>
<td>Special Procedures</td>
<td>Interface Equipment</td>
</tr>
<tr>
<td>Mass Notification Systems</td>
<td><strong>Special Procedures</strong></td>
</tr>
<tr>
<td><strong>Fire Dampers NFPA 80</strong></td>
<td><strong>Fire Doors NFPA 80</strong></td>
</tr>
<tr>
<td>Test after first year, then every 4 years</td>
<td>Inspection and testing for fire doors</td>
</tr>
<tr>
<td>See code for additional provisions</td>
<td>Operational test for fire doors</td>
</tr>
</tbody>
</table>
## Code Requirements for Functional Testing of Fire & Life Safety Systems and Equipment

### Annually (continued)

<table>
<thead>
<tr>
<th>System</th>
<th>Test Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Emergency Responder Radio Communication Systems (ERRCS)</strong> NFPA 1221</td>
<td>Two-way radio enhancement systems shall be tested annually, documented and approved by AHJ</td>
</tr>
</tbody>
</table>

### 2-Year Interval

<table>
<thead>
<tr>
<th>System</th>
<th>Test Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alarm Systems</strong>, NFPA 72, ULC S536</td>
<td>Smoke Detector Sensitivity Testing</td>
</tr>
</tbody>
</table>

### 3-Year Interval

<table>
<thead>
<tr>
<th>System</th>
<th>Test Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sprinklers</strong>, NFPA 25</td>
<td>Dry System Full Flow Trip Test&lt;br&gt;Water System Air Leakage&lt;br&gt;Water Tanks without Corrosion Protection</td>
</tr>
</tbody>
</table>

### 5-Year Interval

<table>
<thead>
<tr>
<th>System</th>
<th>Test Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Extinguishers</strong>, NFPA 10</td>
<td>Hydrostatic Testing of Carbon Dioxide, Wet Chemical and Foam Fire Extinguishers&lt;br&gt;Hydrostatic Testing of Cartridges Associated with Portable Fire Extinguishers and Wheeled Units&lt;br&gt;Hydrostatic Testing of Carbon Dioxide Hoses Equipped with a Shut-Off Valve</td>
</tr>
<tr>
<td><strong>Sprinklers</strong>, NFPA 25</td>
<td>Gauges (Test or Replace)&lt;br&gt;Fire Extinguishers – Extra-high Temperature/Corrosive Atmosphere&lt;br&gt;Internal Pipe Obstruction Inspection&lt;br&gt;Fire Department Connections&lt;br&gt;Hydrostatic Test Siamese Connections (City of Pittsburgh every 3 years)&lt;br&gt;Standpipe - Full Flow Test Remote Point&lt;br&gt;Hose Connection Pressure Reducing Valves (full flow)&lt;br&gt;Hydrostatic Test Manual/Dry Standpipes&lt;br&gt;5-year test for new fire hoses and every 3 years thereafter&lt;br&gt;Valves, Valve Components&lt;br&gt;Pressure Reducing Valves/Relief Valves (full flow)&lt;br&gt;Private Fire Service Mains&lt;br&gt;Full Flow Test&lt;br&gt;Internal Tank Test&lt;br&gt;Internal Backflow &amp; Re-test</td>
</tr>
</tbody>
</table>

### 6-Year Test

<table>
<thead>
<tr>
<th>System</th>
<th>Test Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Extinguishers</strong>, NFPA 10</td>
<td>Stored-pressure extinguishers requiring 12-year hydrostatic test shall be emptied and subjected to applicable maintenance procedures.</td>
</tr>
</tbody>
</table>

### 10 Year Interval and Greater

<table>
<thead>
<tr>
<th>System</th>
<th>Test Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sprinklers</strong>, NFPA 25</td>
<td>Dry Type&lt;br&gt;Quick Response&lt;br&gt;Standard</td>
</tr>
<tr>
<td><strong>Sprinklers</strong></td>
<td>At 10 years and every 10 years thereafter&lt;br&gt;At 20 years and every 10 years thereafter&lt;br&gt;At 50 years and every 10 years thereafter</td>
</tr>
</tbody>
</table>

### 12 Year Interval

<table>
<thead>
<tr>
<th>System</th>
<th>Test Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Extinguishers</strong>, NFPA 10</td>
<td>Hydrotest of dry chemical and clean agent extinguishers&lt;br&gt;Hydrotest of dry chemical hose equipped with a shut-off valve</td>
</tr>
<tr>
<td><strong>Hood Suppression</strong>, NFPA 17A</td>
<td>Hydrostatic Testing&lt;br&gt;Cylinder&lt;br&gt;Replacement of Cartridge&lt;br&gt;Regulator Test&lt;br&gt;Wet Chemical Containers&lt;br&gt;Auxiliary Pressure Containers&lt;br&gt;Hose Assemblies</td>
</tr>
</tbody>
</table>

The information contained herein should not be construed as legal advice, a statement of applicable laws, building or fire codes and regulations or a legal opinion based on specific facts. The information is only a general summary and the contents are intended for general information purposes only. You are urged to consult your local Authority Having Jurisdiction (AHJ) concerning your individual building and/or any specific legal or statutory compliance questions you may have.

Siemens Industry, Inc., Smart Infrastructure<br>1000 Deerfield Parkway<br>Buffalo Grove, IL 60089-4513<br>Tel. 847-215-1000<br>© 2019 Siemens Industry, Inc.<br>(2/2019, Part # 153-SBT-1041)