

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

Daily and Weekly	
<b>Sprinklers NFPA 25</b>	Gauges (Dry, Preaction, and Deluge Systems) Valves, Valve Components, Trim Inspections Sealed Control Valves Master Pressure Reducing Fire Pump System Casing Relief Valves Pressure Relief Valves Pump House, Heating Ventilating Louvers Backflow Prevention Assemblies Reduced Pressure Control Valves (locked/supervised) Standpipe Sealed Control Valves Gauges (Automatic Dry Standpipes)
<b>Alarm Systems NFPA 72, ULC S536</b>	Control Equipment: Fire Alarm Systems Unmonitored for Alarm, Supervisory, and Trouble Signals Fuses Interface Equipment Lamps – LEDs Primary Power Trouble Signals
Monthly	
<b>Extinguishers NFPA 10</b>	Location Pressure Tamper Indicator, Hose/Nozzle Sign, Hanger, Hazard Extinguishers Assessment, HMIS Label Location in designated place No obstruction to access or visibility Operating instructions on nameplate legible and facing outward Safety seals and tamper indicators not broken or missing Fullness determined by weighing or “hefting” Examination for obvious physical damage, corrosion, leakage or clogged nozzle Pressure gauge reading or indicator in the operable range or position Condition of tires, wheels, carriage, hose, and nozzle checked (for wheeled units) HMIS Label in place
<b>Sprinklers NFPA 25</b>	Gauges (Wet, Dry, Preaction, and Deluge) Valves, Valve Components, Trim Inspections Locked/Supervised Control Valves Alarm Valves (exterior bells) Dry Pipe, Deluge, Preaction Valves Backflow Prevention Assemblies Double Check Valves Control Valves (locked/supervised) Standpipe Control Valves (locked/supervised) Gauges (Automatic Dry Standpipes with Air Pressure Supervision) Private Fire Service Mains Hose Houses
<b>E-Lights, Exit Signs NFPA 101</b>	Functional Test

Quarterly	
<b>Sprinklers NFPA 25</b>	Waterflow Alarm and Signaling Devices, including mechanical devices (i.e. water monitor gongs) Valve Supervisory Signal Devices Supervisory Signal Devices (except valve supervisory switches) Gauges (Wet Pipe Systems) Fire Department Connections Pressure Reducing and Relief Valves Hydraulic Design Information Sign Backflow Prevention Assemblies
<b>Alarm Systems NFPA 72, ULC S536</b>	Waterflow and Supervisory Devices
Semi-Annually	
<b>Hood Suppression NFPA 17, 17A, 96</b>	Suppression System Fusible Link Replacement
<b>Sprinklers NFPA 25</b>	Private Fire Service Mains Monitor Nozzles
<b>Alarm Systems NFPA 72, ULC S536</b>	Control Equipment: Fire Alarm Systems Monitored for Alarm, Supervisory, and Trouble Signals Trouble Signals Nickel-Cadmium Sealed Lead-Acid Transient Suppressors Control Unit Trouble Signals Emergency Voice/Alarm Communications Equipment Remote Annunciators Batteries Sealed Lead-Acid Initiating Devices Air Sampling Smoke Detectors Duct Smoke Detectors Electromechanical Releasing Devices Fire Extinguishing System(s) or Suppression System(s) Switches Fire Alarm Boxes (Pull Stations) Heat Detectors Smoke Detectors Interface Equipment Alarm Notification Appliances – Supervised Supervising Station Fire Alarm Systems – Transmitters DACT

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

Annually	
<b>Extinguishers NFPA 10</b>	All monthly inspections, plus conductivity test-CO <sub>2</sub> Determine 6 yr or hydrotest, inspect shell hanger/seismic bracing Hydrostatic testing of Carbon Dioxide, Wet Chemical, and Foam Fire Extinguishers
<b>Hood Suppression NFPA 17, 17A</b>	Fusible Links Cartridge (Hydrostatic Test/Replacement) - PYROCHEM
<b>Sprinklers NFPA 25</b>	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
<b>Alarm Systems NFPA 72, ULC S536</b>	Supervisory, and Trouble Signals ULC S536 Fuses Interfaced Equipment Lamps and LEDs Primary (main) Power Supply Control Equipment: Fire Alarm Systems Unmonitored for Alarm, Supervisory, and Trouble Signals Radiant Energy Fire Detectors Supervisory Signal Devices Waterflow Devices
<b>E-Lights, Exit Signs NFPA 101</b>	90 Minute drain test and inspection, verification of charge voltage Alignment of heads, hazard assessment, inspection sticker, required paperwork

5 Years	
<b>Sprinklers NFPA 25</b>	Internal Pipe Inspection/Assessment Valves, Valve components, Trim Inspections Strainers, Filters, Orifices Interior Check Valves Interior Alarm
10 Years	
<b>Hood Suppression NFPA 17, 17A</b>	Regulator Tank Cylinder (Hydrostatic Test) Cartridge (Hydrostatic Test/Replacement) – ANSUL Actuation Hose (Hydrostatic Test/Replacement)

NFPA 10: 2018 edition, NFPA 17: 2017 edition, NFPA 25: 2017 edition, NFPA 72: 2019 edition, NFPA 80: 2019 edition, NFPA 101: 2018 edition, NFPA 1221: 2019 edition

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

Monthly	
<b>Extinguishers NFPA 10</b>	Ensure in proper operating condition. Safety seals, tags, pressure gauge readings, HMIS Label.
<b>Fire Pumps NFPA 25</b>	Weekly system procedures. Electric 10 min. Diesel 30 min.
<b>Alarm Systems NFPA 72, ULC S536</b>	Daily and Monthly Status Check 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.
<b>EM Lighting NFPA 101</b>	30 seconds quick check and battery check
Quarterly	
<b>Sprinklers NFPA 25</b>	Mechanical Water Flow Devices Tank High and Low Alarms that do not Report to a Fire Panel that is Monitored 24 Hours a Day Valves, Valve Components Hose Valves/PRVs Main Drain (with Backflow Device) Low Air Pressure Alarms Quick Opening Devices Priming Water Master PRV Main Drain
Semi-Annually	
<b>Hood Suppression NFPA 17A</b>	All Kitchen Suppression Systems Valve Supervisory Devices
<b>Sprinklers NFPA 25</b>	High/Low Tank Alarms
<b>Alarm Systems NFPA 72, ULC S536</b>	Batteries - Fire Alarm Systems Sealed Lead-Acid – Load Voltage Test Control Valves Waterflow Switches and Control Valves

Annually	
<b>Extinguishers NFPA 10</b>	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.
<b>Sprinklers NFPA 25</b>	Main Drain Antifreeze Solution Valves, Valve Components Pressure Reducing Valves/Relief Valves (part flow) Master Pressure Reducing Valves (full flow) Control Valves Dry System, Partial Trip Test Deluge, Preaction Full Trip Test Air Maintenance Device Backflow Prevention Assemblies Full Forward Flow Test Private Fire Hydrant Standpipe Main Drain Test Hose Valves Valves (all types) Private Fire Service Mains Monitor Nozzles Hydrants Fire Pump System Full Flow Alarm Signals Annual Maintenance
<b>Alarm Systems NFPA 72, ULC S536</b>	Control Equipment: Building Systems Connected to Supervising Station Functions, Fuses, Interface Equipment, Lamps & LEDs, Primary (main) Power Supply, Transponders Batteries - Fire Alarm Systems Control Unit Trouble Signs Emergency Voice/Alarm Communications Equipment Remote Annunciators Initiating Devices Duct Smoke Detectors Electromechanical Releasing Devices Fire Extinguishing System(s) or Suppression System(s) Switches Fire Alarm Boxes (Pull Stations) Fire Phones Heat Detectors All Smoke Detectors - Functional Fire - Gas and other detectors Interface Equipment Special Hazard Equipment Alarm Notification Devices Audible Devices Audible Textual Notification Appliances Visible Devices Supervising Station Fire Alarm System – Transmitters DACT, DART Special Procedures Mass Notification Systems
<b>Fire Dampers NFPA 80</b>	Test after first year, then every 4 years See code for additional provisions
<b>Fire Doors NFPA 80</b>	Inspection and testing for fire doors Operational test for fire doors

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

Annually (continued)	
<b>Emergency Responder Radio Communication Systems (ERRCS) NFPA 1221</b>	Two-way radio enhancement systems shall be tested annually, documented and approved by AHJ
2-Year Interval	
<b>Alarm Systems, NFPA 72, ULC S536</b>	Smoke Detector Sensitivity Testing
3-Year Interval	
<b>Sprinklers NFPA 25</b>	Dry System Full Flow Trip Test Dry System Air Leakage Water Tanks without Corrosion Protection
5-Year Interval	
<b>Extinguishers NFPA 10</b>	Hydrostatic Testing of Carbon Dioxide, Wet Chemical and Foam Fire Extinguishers Hydrostatic Testing of Cartridges Associated with Portable Fire Extinguishers and Wheeled Units Hydrostatic Testing of Carbon Dioxide Hoses Equipped with a Shut-Off Valve
<b>Sprinklers NFPA 25</b>	Gauges (Test or Replace) Sprinklers – Extra-high Temperature/Corrosive Atmosphere Internal Pipe Obstruction Inspection Fire Department Connections Hydrostatic Test Siamese Connections (City of Pittsburgh every 3 years) Standpipe - Full Flow Test Remote Point Hose Connection Pressure Reducing Valves (full flow) Hydrostatic Test Manual/Dry Standpipes 5-year test for new fire hoses and every 3 years thereafter Valves, Valve Components Pressure Reducing Valves/Relief Valves (full flow) Private Fire Service Mains Full Flow Test Internal Tank Test Internal Backflow & Re-test

6-Year Test		
<b>Extinguishers NFPA 10</b>	Stored-pressure extinguishers requiring 12-year hydrostatic test shall be emptied and subjected to applicable maintenance procedures.	
10 Year Interval and Greater		
<b>Sprinklers NFPA 25</b>	Dry Type	At 10 years and every 10 years thereafter
	Quick Response	At 20 years and every 10 years thereafter
	Standard	At 50 years and every 10 years thereafter
12 Year Interval		
<b>Extinguishers NFPA 10</b>	Hydrotest of dry chemical and clean agent extinguishers Hydrotest of dry chemical hose equipped with a shut-off valve	
<b>Hood Suppression NFPA 17A</b>	Hydrostatic Testing Cylinder Replacement of Cartridge Regulator Test Wet Chemical Containers Auxiliary Pressure Containers Hose Assemblies	

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