

Life Safety Systems

Functional Testing Code Requirements



Fire Alarm / Fire Sprinkler / Extinguishers

MONTHLY			
Automatic Fire Alarm Systems	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.		ULC S536
Portable Fire Extinguishers	Ensure in proper operating condition. Safety seals, tags, pressure gauge readings, HMIS Label.		NFPA 10
Emergency Lights	30 seconds quick check and battery check		NFPA 101
Fire Pump	Weekly system procedures. Electric 10 min. Diesel 30 min.		NFPA 25
QUARTERLY			
Sprinklers	Mechanical Water Flow Devices Valves, Valve Components Low Air Pressure Alarms	Quick Opening Devices Priming Water	NFPA 25
SEMI ANNUALLY			
Hood System Lock Release	Kitchen Fire Suppression Components Access control release test		NFPA 17A
Sprinklers	Valve Supervisory Devices		NFPA 25
ANNUALLY			
Portable Fire Extinguishers	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.		NFPA 10
Automatic Fire Alarm Systems	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) 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	NFPA 72 ULC S536
Sprinklers	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 Standpipe Main Drain Test Hose Valves Valves (all types) Private Fire Service Monitor Nozzles Hydrants Fire Pump System Full Flow Annual Maintenance	NFPA 25

3 YEAR INTERVAL		
Sprinklers	Dry System Full Flow Trip Test Dry System Air Leakage	NFPA 25
5 YEAR INTERVAL		
Portable Fire Extinguishers	Hydrostatic testing of Carbon Dioxide, wet chemical and foam Dry System Air Leakage 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	NFPA 10
Sprinklers	Gauges Sprinklers - Extra-high Temperature/Corrosive Atmosphere Fire Department Connections Hydrostatic Test Siamese Connections, in some locations (city of Pittsburgh every 3 years) Standpipe - Full Flow Test Remote Point Hose Connection Pressure Reducing Valves (full flow) Hydrostatic Test Manual/Dry Standpipes	NFPA 25
Standpipe Hoses	5 year test for new hoses and every 3 years thereafter Valves, Valve Components Pressure Reducing Valves/Relief Valves (full flow) Private Fire Service Full Flow Test	
6 YEAR TEST		
Portable Fire Extinguishers	Stored-pressure extinguishers requiring 12 year hydrostatic test shall be emptied and subjected to applicable maintenance procedures.	NFPA 25
12 YEAR INTERVAL		
Portable Fire Extinguishers	Hydrotest of dry chemical and clean agent extinguishers Hydrotest of dry chemical hose equipped with a shut-off valve	NFPA 10
Hood Suppression System	Hydrostatic Testing Cylinder Replacement of cartridge Regulator Test	Wet Chemical Containers Auxiliary Pressure Containers Hose Assemblies NFPA 17A
10 YEAR INTERVAL AND GREATER		
Sprinklers Dry Type Quick Response Standard	At 10 years and every 10 years thereafter At 20 years and every 10 years thereafter At 50 years and every 10 years thereafter	NFPA 25

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



Life Safety Systems

Visual Inspection Code Requirements



Fire Alarm / Fire Sprinkler / Extinguishers

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DAILY/WEEKLY			
Sprinklers	Gauges (Dry, Preaction, and Deluge Systems) Cold Weather Enclosures (daily/weekly) 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 Reduced Pressure Detectors Control Valves (locked/supervised) Standpipe Sealed Control Valves	NFPA 25
MONTHLY			
Portable Fire Extinguishers	Location Pressure Tamper Indicator, Hose/Nozzle Sign, Hanger, Hazard 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	NFPA 10
Automatic Fire Alarm	Control Equipment: Fire Alarm Systems Unmonitored for Alarm, Supervisory, and Trouble Signals		NFPA 72 ULC S536
Sprinklers	Gauges (wet, dry, preaction, and deluge systems) Valves, Valve Components, Trim Inspections Locked/Supervised Control Valves Valve Supervisory Switches Tampers Switches Alarm Valves (exterior bells) Dry Pipe, Deluge, Preaction Valves	Pressure Reducing Valves Backflow Prevention Assemblies Double Check Valves Control Valves (locked/supervised) Standpipe Control Valves (locked/supervised)	NFPA 25
Emergency Lights/Exit Signs	Functional Test		NFPA 101, 70
Hood Suppression System	Owners Inspections		NFPA 17
QUARTERLY			
Sprinklers	Alarm Devices Fire Department Connections Pressure Reducing and Relief Valves Sprinkler Systems Hose Connections Hose Racks	Backflow Prevention Assemblies Fire Department Connections Standpipe Private Fire Service Maintenance	NFPA 25
SEMI ANNUALLY			
Hood Suppression System	Suppression System Fusible Link Replacement		NFPA 96 NFPA 17, 17A
Automatic Fire Alarm	Control Equipment: Fire Alarm Systems Monitored for Alarm, Supervisory, and Trouble Signals Fuses Interfaced Equipment Lamps and LEDs Primary (main) Power Supply Control Equipment: Fire Alarm Systems Unmonitored for Alarm, Supervisory, and 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	NFPA 72 ULC S536

SEMI ANNUALLY (continued)			
	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	
Sprinklers	Private Fire Service Monitor Nozzles		NFPA 25
ANNUALLY			
Hood Suppression System	Fusible Links Cartridge (Hydrostatic Test/Replacement) - PYROCHEM		NFPA 17, 17A
Portable Fire Extinguishers	All of monthly inspection, plus conductivity test (Carbon Dioxide), Determination of 6 year or Hydrotest, inspection of shell and nameplate Hanger/seismic bracing		NFPA 10
Automatic Fire Alarm	Control Equipment: Fire Alarm Systems Monitored for Alarm, Supervisory, and Trouble Signals 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	NFPA 72 ULC S536
Sprinklers	Pipe and Fittings (from floor) Hangers/Seismic Bracing Sprinklers (from floor) Spare Sprinklers 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 Hydrants Main Line Strainers	NFPA 25
5 YEARS			
Sprinklers	Internal Obstruction Investigation Valves, Valve components, Trim Inspections	Strainers, Filters, Orifices Interior Check Valves Interior Alarm, Dry, Deluge, Preaction Valves	NFPA 25

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

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See Reverse Side for Functional Testing Code Requirements

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