

FUNCTIONAL TESTING

WEEKLY

Diesel Fire Pumps.....NFPA 25

- Operate fire pump under no-flow conditions for 30 minutes
- Make visual observations according to checklist for pump and diesel engine

MONTHLY

Emergency Lights/ Exit SignsNFPA 101

- 30-Second quick check

Electric Fire PumpsNFPA 25

- Operate fire pump under no-flow conditions for 10 minute
- Make visual observations according to checklist for pump and electrical system

QUARTERLY

Sprinklers NFPA 25

- Mechanical water flow alarm devices — Water motor gongs

Valves, Valve Components

- Low air pressure alarms, quick opening devices, priming water

SEMI-ANNUALLY

Hood Suppression Systems.....NFPA 17A and 96

- Test operation of detection system and releasing devices
- Replace fusible links

SprinklersNFPA 25

- Vane-type and pressure-switch type waterflow devices

Valves, Valve Components

- Control valve supervisory switches — Tamper switches

Fire Alarm SystemsNFPA 72

- Optical flame detectors, valve tamper switches, water flow switches

ANNUALLY

Clean Agent Suppression...NFPA 2001

- Test all systems devices — Detectors, pull stations, abort stations discharge circuits, audible and visual devices
- Agent quantity and pressure shall be verified to design specification
- Agent distribution piping network integrity verified
- Functional test of all detection, actuating inputs, alarm-sounding or displaying devices, remote annunciators, air-handling shutdown, and power shutdown relays per original design

Emergency Lights/ Exit SignsNFPA 101

- 90 Minute drain test and inspection, verification of charge voltage, alignment of light heads, hazard assessment, inspection sticker, required paperwork

ANNUALLY (CONT)

Fire Alarm Systems NFPA 72

- Control Equipment (FACP): Building Systems Connected to Supervising Station Functions, fuses, interface equipment, lamps & LEDs, primary power supply
- Batteries
- Emergency Voice/Alarm Communications Equipment
- Remote Annunciators
- Initiating Devices
Duct smoke detectors, electromechanical releasing devices • Fire extinguishing system or suppression system switches • Fire alarm boxes (manual pull stations)
Detectors: heat, smoke, gas, carbon monoxide, and others

Special Hazard Equipment

- Initiating and releasing circuits, releasing devices, abort devices

Alarm Notification Devices

- Audible devices, visible devices

Supervising Station Fire Alarm Systems—Transmitters

- Dialer, DACT, DART, all other transmitters

Mass Notification Systems Emergency Control Functions and Equipment

Portable Fire Extinguishers ...NFPA 10

- Maintenance: Conductivity test of all carbon dioxide hose assemblies • Pressure regulators on wheeled units • Uncoil and inspect hoses on wheeled units. Empty and recharge all stored-pressure loaded-stream fire extinguishers

SprinklersNFPA 25

- Main drain, antifreeze solution concentration

Valves, Valve Components

- Pressure reducing valves/relief valves (partial flow)
- Master pressure reducing valves (full flow)
- Control valves, dry system and deluge full trip test, preaction valve partial trip test
- Low-temp alarms at beginning of heating season
- Air maintenance device

Backflow Prevention Assemblies

- Full forward flow test

Standpipes

- Main drain test, hose valves, valves (all types)

Private Fire Service Mains

- Monitor nozzles, hydrants

Fire Pump System

- Fire pump alarm signals, full flow test, and perform annual maintenance

Two-Way Radio Communication Enhancement SystemsNFPA 1221

- Operational test under normal conditions

CODE REQUIREMENTS

3 YEAR CYCLE

Fire Alarm SystemsNFPA 72

- Replace batteries or perform a load test to see if performance is acceptable

Sprinklers NFPA 25

- Dry and preaction system full flow trip test
- Dry and preaction system air leakage test

Portable Fire Extinguishers....NFPA 10

- Replace liquid charge-type AFFF and FFFP extinguishers — Perform internal examination at that time

5 YEAR CYCLE

Clean Agent Suppression...NFPA 2001

- Hydrostatic test discharge hoses or replace
Check valves tested, change initiators

Portable Fire Extinguishers....NFPA 10

- Internal inspection and hydrostatic test of stored-pressure water, water mist, and loaded stream extinguishers
- Internal inspection and hydrostatic test of wetting agent, AFFF, FFFP, dry chemical (stainless steel shells), carbon dioxide, and wet chemical extinguishers
- Hydrostatic test of pressure cartridges associated with portable extinguishers and wheeled units
- Hydrostatic testing of carbon dioxide hoses equipped with a shut-off valve

Sprinklers NFPA 25

- Test gauges or replace
- Sprinklers — Extra-high temperature/corrosive atmosphere
- Check Valves — Test or replace
- Piping internal inspection for obstructions

Standpipe — Full Flow Test Remote Point

- Hose connection pressure reducing valves (Full Flow)
- Hydrostatic test manual and dry standpipes

Standpipe Hoses

- 5-Year test for new hoses and every 3 years thereafter

Valve, Valve Components

- Pressure reducing valves and relief valves (full flow)

Private Fire Service Mains

- Full flow test

Two-Way Radio Communication Enhancement SystemsNFPA 1221

- Full re-acceptance test of system

6 YEAR CYCLE

Portable Fire Extinguishers ...NFPA 10

- Perform internal investigation on stored-pressure extinguishers which require a 12-year hydrostatic test

12 YEAR CYCLE

Hood Suppression Systems..NFPA 17A

- Hydrostatic test of all containers and hose assemblies

Portable Fire Extinguishers ...NFPA 10

- Hydrostatic test of cartridge-operated dry chemical and dry powder extinguishers with mild steel shells
- Hydrostatic test of halogenated (clean agent) extinguishers

LONG-TERM CYCLES

Clean Agent Suppression...NFPA 2001

- CGA (Compressed Gas Actuator) — Replace at 10 years and every 10 years thereafter

Sprinklers NFPA 25

Standard Response Sprinklers

- Replace all sprinklers or test to keep at 50 years

Quick Response Sprinklers

- Replace all sprinklers or test to keep at 20 years

Dry Type Sprinklers

- Replace all sprinklers or test to keep at 15 years



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See other side for
**VISUAL
INSPECTIONS**
Requirements

VISUAL INSPECTIONS

DAILY / WEEKLY

Fire Alarm SystemsNFPA 72

- Unmonitored control panels — Check for normal condition and any trouble or supervisory signals

Fire PumpNFPA 25

- Pump system — valves open, no leaks, pressure gauges at normal readings
- Electrical system or diesel system normal
- Pump house heat working and above 40°F
- Circulation relief and pressure relief valves

Sprinklers and Standpipes.....NFPA 25

- Gauges on dry, preaction, and deluge systems — Inspect for condition and normal pressures

Valves, Valve Components, Trim Inspections

- Control valves — Normal position, tamper switches or locks, accessible, leak-free, signage
- Master pressure reducing valves
- Enclosures — Maintain above 40°F — Inspect daily if no low-temp alarm

Backflow Prevention Assemblies

- Check BFP is not discharging water

Standpipes

- Sealed control valves

MONTHLY

Hood Suppression System...NFPA 17A

- Owner's inspection — Extinguishing system in proper location, manual actuators unobstructed, tamper seals intact, system tag in place, no obvious physical damage, pressure gauge in operable range, nozzle blow-off caps intact, no modifications to protected equipment

Portable Fire Extinguishers...NFPA 10

- Location in designated place
- No obvious physical damage, corrosion, or clogged nozzle
- No obstruction to access or visibility — Nameplate facing outward
- Safety seals or tamper indicators not broken or missing
- Pressure gauge reading in the operable range
- Test for agent fullness by lifting or "hefting"
- Wheeled units — Condition of wheels, hose, and nozzle
- Non-rechargeable units — Check pressure indicator
- Record inspection date on tag with initials

Sprinklers and Standpipes.....NFPA 25

- Gauges on wet systems — Inspect for condition and normal pressures
- Air pressure gauges on dry and preaction systems if electronically supervised

Valves, Valve Components, Trim Inspections

- Control valves — Normal position, tamper switches or locks, accessible, leak-free, signage
- Alarm and alarm check valves — Exterior inspection
- Dry pipe, deluge, preaction valves — Exterior inspection

Backflow Prevention Assemblies

- Control valves — Tamper switches or locks

Standpipes

- Control valves — Tamper switches or locks

QUARTERLY

SprinklersNFPA 25

- Water flow alarm and all supervisory devices — Tamper switches
- Fire department connections
- Pressure reducing valves and relief valves

Fire Alarm SystemsNFPA 72

Initiating Devices

- Optical flame detectors, video smoke/fire detectors

CODE REQUIREMENTS

SEMI-ANNUALLY

Hood Suppression System

- NFPA 17A and 96
- Certified technician's inspection

Clean Agent Suppression...NFPA 2001

- Visually inspect all field devices, measure agent quantity, and cylinder pressure
- Fill out cylinder tags

Fire Alarm Systems.....NFPA 72

- Fire alarm panel trouble signals, emergency voice/alarm communications equipment, remote annunciators, surge suppressors, panel batteries

Initiating Devices

- Air sampling smoke detectors
- Duct smoke detectors
- Electromechanical releasing devices
- Fire extinguishing system or suppression system switches
- Fire alarm boxes (pull stations)
- Detectors — heat, smoke, beam, carbon monoxide

- Water flow devices

- Supervisory signal devices

Notification Appliances

Two-Way Radio Communication

Enhancement SystemsNFPA 1221

- Power, secondary power, fault indication, communication to FACP, physical damage

ANNUALLY

Clean Agent Suppression...NFPA 2001

- System hoses
- Inspect enclosure to determine if penetrations have occurred that could lead to agent leakage

Portable Fire Extinguishers...NFPA 10

- Normal monthly inspection requirements, plus:
- Inspect shell for damage or corrosion
- Inspect hose and nozzle for blockage
- Labels present, legible, and facing forward
- Check for next 6-year internal or hydrostatic test date
- Replace tamper seal
- Remove extinguisher and inspect hanger, bracket, or storage cabinet

Sprinklers.....NFPA 25

- Visually inspect from floor — Sprinklers, pipe and fittings, pipe hangers and seismic bracing
- Spare sprinklers in spare sprinkler cabinet
- Hydraulic design information sign

ANNUALLY (cont)

Standpipes

- Piping
- Hose racks
- Hose connections and hose valves
- Hose and hose nozzles

Valves, Valve Components, Trim Inspections

- Interior inspections — Dry pipe valves, preaction, and deluge valves

Private Fire Service

- Hydrants
- Main line strainers

Fire Alarm SystemsNFPA 72

Fire Alarm Panels

- Fuses, interfaced equipment, lamps and LEDs, main power supply
- Supervising station alarm system transmitters dialer, DACT, cellular dialer, radio transmitter, IP transmitter

NAC Extender Power Panels

Mass Notification Equipment

5 YEAR CYCLE

Clean Agent Suppression...NFPA 2001

- External visual inspection on agent cylinders following CGA-C6

Sprinklers NFPA 25

- Internal obstruction investigation of piping

Valves, Valve Components, Trim Inspections

- Interior inspections — Alarm valves, check valves, alarm/check valves, filters, and strainers

- Interior inspections — Externally resettable preaction and deluge

Code Insight

Inspection, testing, and maintenance are defined separately within NFPA standards. Inspection verifies system condition, testing confirms operational performance, and maintenance addresses deficiencies. Together, these activities ensure fire protection systems remain compliant and ready to perform in an emergency.



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FUNCTIONAL TESTING
Requirements