

Reliable Fire Protection Starts with Compliance

A properly maintained fire protection system is one of the most critical safeguards in any facility. **NFPA 25** sets the national standard for inspection, testing, and maintenance of water-based systems — making compliance essential for protecting lives, property, and business continuity.

Nitro Construction Services' Fire Protection Division delivers more than inspections — we deliver confidence. From consultation and system design to testing, repairs, maintenance, and **24/7 emergency response**, our team ensures your systems remain compliant, operational, and audit-ready.



Our services include:

- System inspections and flow testing
- Hydraulic calculations and analysis
- Deficiency identification and corrective action
- Repairs, service, and ongoing maintenance
- Commissioning and documentation

With web-based reporting and detailed documentation, we help simplify Fire Marshal visits, insurance audits, and regulatory reviews.



CONTACT US TODAY

Phone: (304) 204.1566 | Email: nitrofp@nitrocs.com

Office Location: 4300 1st Ave, Nitro, WV 25143



nitroconstructionservices.com

USAFP'S NFPA 25 Inspections, Testing, and Maintenance Checklist

Protect What Matters.



NITRO CONSTRUCTION SERVICES

NFPA 25 INSPECTION, TESTING & MAINTENANCE OVERVIEW

A Structured Approach to System Reliability

📅 WEEKLY ITEMS

- ☑ Ensure all control valves are in proper position.
- ☑ Verify temperature >40°F in valve enclosures.
- ☑ Verify RPZ (Reduced Pressure Zone) relief is not constantly discharging.
- ☑ Check gauges to ensure the static water supply pressure and air pressure are normal.

📅 MONTHLY ITEMS

- ☑ Examine the exterior of dry, preaction, deluge, and alarm check valves.
- ☑ Inspect the condition of the air compressors, wiring, air lines, and oil level.

📅 QUARTERLY ITEMS

- ☑ Visualize Fire Department Connections (FDC).
- ☑ Examine electronically supervised control valves.
- ☑ Check sprinkler system pressure reducing and relief valves.
- ☑ Visualize hose valves.
- ☑ Inspect supervisory signal devices and waterflow alarm devices.
- ☑ Main drain test for systems with backflow preventers.
- ☑ Partial flow test of pressure regulating or pressure reducing valves.
- ☑ Test mechanical water motor gong if present.
- ☑ Test priming water level and quick opening devices on dry systems.

📅 SEMI-ANNUAL ITEMS

- ☑ Test vane type waterflow switches.
- ☑ Test pressure type waterflow switches.
- ☑ Test valve supervisory switches.
- ☑ Verify nitrogen concentration in dry systems equipped with N2 generators.

Performed by Certified Nitro Fire Protection Professionals

ANNUAL & MULTI-YEAR INSPECTION REQUIREMENTS

📅 ANNUAL ITEMS

- ☑ Inspect sprinklers, exposed pipe, and fittings from floor level.
- ☑ Inspect hose, hose cabinets, hose connections, nozzles, storage devices, and standpipe piping.
- ☑ Verify proper signage is present.
- ☑ Confirm proper number and type of spare sprinklers and proper wrenches.
- ☑ Clean dry pipe valve internals.
- ☑ Empty low point drains.
- ☑ Operational test of Class I and Class III hose valves.
- ☑ Test control valves.
- ☑ Test any other supervisory signal devices.
- ☑ Partial trip test of dry, preaction, and/or deluge valves.
- ☑ Partial flow test of pressure regulating or pressure reducing valves.
- ☑ Lubricate stems of OS&Y (Outside Screw and Yoke) valves.
- ☑ Lubricate hydrant stems, caps, plugs, & threads.

📅 3-YEAR ITEMS

- ☑ Operational test of Class II hose valves.
- ☑ Full flow trip test of dry, preaction, &/or deluge valves.
- ☑ Air leakage test on dry &/or preaction systems.



Schedule Your Fire Protection System Inspection today.

24/7 EMERGENCY SERVICE CONTACT

PHONE: +1 (304) 204-1566

LONG-TERM COMPLIANCE MILESTONES

📅 5-YEAR ITEMS

- ☑ Internal inspection of pipe.
- ☑ Internal inspection of non-externally resettable deluge, preaction, and check valves.
- ☑ Internal inspection of strainers, filters, and orifices.
- ☑ Test/Replace gauges.
- ☑ Sample testing of extra high temperature heads exposed to maximum allowable temperature.
- ☑ Sample testing of heads in harsh environments.
- ☑ Full flow testing of private main hydrants.
- ☑ Hydrostatic test of FDC pipping.
- ☑ Hydrostatic test of manual & semiautomatic dry standpipe systems.
- ☑ Full flow of automatic standpipe systems.

📅 20-YEAR ITEMS

- ☑ Sample testing of dry sprinkler heads.
- ☑ Sample testing of ESFR and CMSA with fast-response elements (Retest every 10 years).

📅 25-YEAR ITEMS

- ☑ Sample testing of fast response sprinkler heads except ESFR and CMSA (Retest every 10 years).

📅 50-YEAR ITEMS

- ☑ Sample testing of all sprinkler heads (Retest every 10 years until the system is 75 years old).

📅 75-YEAR ITEMS

- ☑ Sample testing of all sprinkler heads (Retest every 5 years).

NFPA 25 compliance protects lives, property, and operational continuity.

NFPA-Compliant Service by Nitro Construction Services

nitroconstructionservices.com