

POWER GENERATION

With ORR, your inspections are done on time and within code.

- Inspections & Testing
- Repairs & Maintenance
- Upgrades and Modifications
- Emergency Service
- System Design & Installation
- Online Reporting — NetSITE



NFPA 25 Sprinklers and Fire Pumps

Inspections, Testing, and Maintenance

We provide NFPA compliant testing for all your sprinkler needs including flow testing, main drain testing, fire pump testing and back-flow preventer testing.



NFPA 10 Portable Fire Extinguishers

Annual Inspections 5, 6, 12 year Hydrostatic Testing

ORR provides real time inventory data for all your portable fire extinguishers. Knowing the exact number of extinguishers you have at each facility, by type, will prevent surprises for upcoming code compliant testing and budgeting planning.



NFPA 2001 Clean Agent Fire Suppression

Semi-Annual Inspection & Testing

ORR is known for being “Mission Critical Fire Protection Experts” because we are trusted to protect billions of dollars worth of mission critical assets. We design, install, inspect, test and maintain gaseous clean agent fire suppression systems across the United States.



NFPA 12 Carbon Dioxide Fire Suppression

Installation, Inspection, Testing, and Maintenance

ORR specializes in high pressure and low pressure CO₂ systems. We can inspect and provide recommendations for your turbine system in addition to the balance of your plant.



NFPA 72 Fire Alarm Systems

Installation, Inspection, Testing, and Maintenance

Our technicians are trained to be the best when it comes to life safety. With some of the most experienced technicians in the industry, ORR offers the expertise and knowledge required to inspect, test and repair all major fire systems.

FUNCTIONAL TESTING CODE REQUIREMENTS

WEEKLY

 **Carbon Dioxide Fire Suppression** NFPA 12
Check CO₂ level in low pressure bulk tank.

 **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

 **Electric Fire Pumps** NFPA 25
Operate fire pump under no-flow conditions for 10 minutes.
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.


 **Fire Alarm Systems** NFPA 72
Initiating Devices
Supervisory pressure switches, tamper switches, suppression system supervisory devices.

SEMI-ANNUALLY

 **Carbon Dioxide Fire Suppression** NFPA 12
Weigh high pressure cylinders.

 **Sprinklers** NFPA 25
Vane-type and pressure-switch type waterflow devices.

Valves, Valve Components
Control valve supervisory switches – Tamper switches.


 **Clean Agent Suppression** NFPA 2001
Inspect clean agent cylinders.

 **Fire Alarm Systems** NFPA 72
Mass notification equipment.

ANNUALLY

 **Carbon Dioxide Fire Suppression** NFPA 12
Checkout and test for operation. Check for system or hazard changes. Check time delays for operation. Check audible alarms for operation. Check visible signals for operation. Check for warning signs. Check detection and control system.

CGA G-6.12 Low Pressure Bulk Tanks
Check instruments and alarms. Test pressure regulating devices an set pressure.
Test safety relief valves. Calibrate pressure gauges and switches. Inspect tank insulation.
Check pipes and tank attachments for corrosion.

 **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.

 **Fire Alarm Systems** NFPA 72

Control Equipment (FACP): Building Systems Connected to Supervising Station
Functions, fuses, interface equipment, lamps & LEDs, primary power supply, transponders.
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: smoke, heat, gas, flame and others.

Alarm Notification Devices
Audible devices, visible devices.

Supervising Station Fire Alarm Systems-Transmitters
DACT, DART, special procedures.

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.

ANNUALLY (Cont...)

 **Sprinklers** NFPA 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. 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.

3 YEAR CYCLE


 **Fire Alarm Systems** NFPA 72
Change out batteries as recommended by manufacturer.

 **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

 **Carbon Dioxide Fire Suppression** NFPA 12
Test or replace system hoses.

 **Clean Agent Suppression** NFPA 2001
Hydro test discharge hoses or replace.
Check valves tested, change initiators.

 **Fire Alarm Systems** NFPA 72
Required battery replacement.

 **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).
Hydrostatically 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.

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

 **Carbon Dioxide Fire Suppression** NFPA 12
Hydrostatic test of high pressure cylinders.

 **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

Standard sprinkler heads at 50 years and every 10 years thereafter.

Quick Response Sprinklers

Quick Response head at 20 years and every 10 years thereafter.

Dry Type Sprinklers

Dry sprinkler head at 10 years and every 10 years thereafter.