




**Monthly**

- Yes  No  N/A Water storage tank—sight glass valves are open
- Yes  No  N/A Water circulation tank—water level is full (unsupervised)

**Compressed Gas Cylinders**

- Yes  No  N/A Cylinder pressure \_\_\_\_\_ psi (bar) unsupervised
- Yes  No  N/A Cylinder control valve is open
- Yes  No  N/A Plant air, compressor, and receiver (supervised)  
Air pressure \_\_\_\_\_ psi (bar)

**Standby Pump**

- Yes  No  N/A Compressed gas supply inlet air pressure \_\_\_\_\_ psi (bar)  
Outlet water pressure \_\_\_\_\_ psi (bar)

**Pneumatic Valves**

- Yes  No  N/A Cylinder valves in correct (open or closed) position
- Yes  No  N/A Master release valves in correct (open or closed) position

**System Control Valves**

- Yes  No  N/A In the correct (open or closed) position
- Yes  No  N/A Sealed, locked, or supervised
- Yes  No  N/A Accessible
- Yes  No  N/A Free from damage or leaks
- Yes  No  N/A Proper signage

**Nozzles**

- Yes  No  N/A In place, pointed in the intended direction, and free from external loading and corrosion
- Yes  No  N/A Blow-off cap (if required) in place and free to operate

**Fire Pumps—Electrical Systems**

- Yes  No  N/A Exercise isolating switch
- Yes  No  N/A Circuit breakers and circuit breaker fuses

**Fire Pumps—Battery Systems**

- Yes  No  N/A Remote corrosion, case clean and dry
- Yes  No  N/A Specific gravity/state or charge
- Yes  No  N/A Charter/charge rate
- Yes  No  N/A Equalize charge

**Quarterly**

- Yes  No  N/A Water supply pressure \_\_\_\_\_ psi
- Yes  No  N/A Water storage tank—water level is full
- Yes  No  N/A Water tank pressure \_\_\_\_\_ psi
- Yes  No  N/A Water storage cylinder (high pressure) water level is full (unsupervised)
- Yes  No  N/A Additive storage cylinder general condition
- Yes  No  N/A Water recirculation tank—water level is full (supervised)
- Yes  No  N/A Compressed gas cylinder support frame and restraints
- Yes  No  N/A Compressed gas cylinder pressure \_\_\_\_\_ psi
- Yes  No  N/A Moisture trap and oil injection in good condition
- Yes  No  N/A Release valve tubing in good condition

**Pipe and Fittings**

- Yes  No  N/A Free of mechanical damage
- Yes  No  N/A Missing or damaged paint or coatings
- Yes  No  N/A Free of corrosion or rust
- Yes  No  N/A Misalignment or trapped sections
- Yes  No  N/A Low point drains not damaged or corroded

**Semi-Annual**

- Yes  No  N/A Water supply source in good condition
- Yes  No  N/A Water tank valves and appurtenances in good condition
- Yes  No  N/A Water storage cylinder is full
- Yes  No  N/A Additive agent level is full
- Yes  No  N/A Air compressor/receiver capacity checked
- Yes  No  N/A Enclosure integrity verified

**Annual**

- Yes  No  N/A Water supply source in good condition
- Yes  No  N/A Interior of water tank inspected

**Form 31**

- Yes  No  N/A Water quality checked
- Yes  No  N/A Water temperature \_\_\_\_\_ °F ( \_\_\_\_\_ °C)

**High-Pressure Water Storage Cylinder**

- Yes  No  N/A Support frame/restraints in good condition
- Yes  No  N/A Vent plugs function during refiring
- Yes  No  N/A Filters on refill connection in good condition
- Yes  No  N/A Water recirculation tank supports and attachments in good condition

**Compressed Gas Cylinders**

- Yes  No  N/A Inspect cylinder capacity and pressure rating
- Yes  No  N/A Check cylinder compliance specification
- Yes  No  N/A Compressed gas meets specifications
- Yes  No  N/A Air supply moisture content acceptable

**Test**

**Quarterly**

- Yes  No  N/A Test start/stop pressure settings for standby pump  
\_\_\_\_\_ psi start \_\_\_\_\_ psi stop

**Annual**

- Yes  No  N/A Water supply tested  
\_\_\_\_\_ psi \_\_\_\_\_ gpm \_\_\_\_\_ minute duration
- Yes  No  N/A Additive agent quality tested
- Yes  No  N/A Additive agent injection—full discharge test

**Water Recirculation Tank**

- Yes  No  N/A Low water level alarm functions
- Yes  No  N/A Float operated valve functions
- Yes  No  N/A Pressure at outlet during discharge \_\_\_\_\_ psi
- Yes  No  N/A Backflow preventer functions
- Yes  No  N/A Air supply capacity and duration tested

**Pump Performance Test**

*Use Form 19, Fire Pumps Annual Performance Tests*

**Pneumatic Valves**

- Yes  No  N/A Solenoid release of master valve functions
- Yes  No  N/A Manual release of master valve functions
- Yes  No  N/A Slave valves operate correctly
- Yes  No  N/A All pneumatic cylinder release valves reset

**Form 31**

- Yes  No  N/A On-off cycling of valves tested
- Yes  No  N/A All control valves operated through full range of motion and returned to normal position
- Yes  No  N/A Range of motion and returned to normal position
- Yes  No  N/A Trip test of dry and preaction water mist system

**Full Flow Trip Test**

- Yes  No  N/A Unobstructed discharge from all nozzles
- Yes  No  N/A Pressure reading at control valve
- Yes  No  N/A Detection system response time \_\_\_\_\_ sec
- Yes  No  N/A Detection system tested in accordance with NFPA 72
- Yes  No  N/A Ventilation system interlocks tested
- Yes  No  N/A Fuel/lubrication system interlocks tested
- Yes  No  N/A Cylinders—hydrostatic test every 5-½ years

**Maintenance**

**Semi-Annual**

- Yes  No  N/A Air supply filters and moisture traps cleaned
- Yes  No  N/A Water recirculation tank filters, strainers and cyclone separator cleaned

	Check	Change	Clean	Test
<b>Pump System</b>				
Lubricate bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check pump shaft end play	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pressure gauge/sensors (check accuracy)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pump coupling alignment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Electrical System</b>				
Trip circuit breaker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operate manual starting means	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operate emergency manual starting means	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tighten electrical connections (as necessary)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lubricate mechanical moving parts (except starters and relays)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calibrate pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Switch settings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lubricate motor bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Comments**

**Overall System Status**

Satisfactory       Unsatisfactory

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

License/Certification No.: \_\_\_\_\_