







# FIRE PUMPS

## Annual Inspections

Year: \_\_\_\_\_ System: \_\_\_\_\_

Location: \_\_\_\_\_

Y=Satisfactory

N=Unsatisfactory (explain below)

N/A=Not Applicable

<b>Date</b>	
<b>Inspector</b>	
All pumps-Hydraulic System	
Suction pressure gauge: _____ psi (bar)	
Discharge pressure gauge: _____ psi (bar)	
Pump starting pressure from pressure switch in controller: _____ psi (bar)	
Pump run time from controller: _____ minutes	
Suction line control valves are sealed open	
Discharge line control valves are sealed open	
Bypass line control valves are sealed open	
All control valves are accessible	
Suction reservoir is full	
Pump shaft seals dripping water (1 drop per second)	
System is free of vibration or unusual noise when running	
Packing boxes, bearings, and pump casing are free of overheating	
Check pump shaft end play	
Check pump coupling alignment	
<b>Electric Fire Pumps Only</b>	
Isolating switch is closed to standby power source	
Normal-phase rotation pilot light is on	
Reverse-phase pilot light is off	
Oil level in vertical motor sight glass is in normal range	
Check accuracy for pressure gauges and sensors	
Trip circuit breaker	
Check voltmeter and ammeter for accuracy (5 percent)	
Check for corrosion on any printed circuit boards	
Check for cracked electrical insulation	
Check for leaks in plumbing parts	
Check for water in electrical parts	
<b>Steam Fire Pumps Only</b>	
Steam pressure gauge reading normal: _____ psi (bar)	
Record time to reach running speed: _____ minutes _____ seconds	
<b>Diesel Fire Pumps Only</b>	
Diesel tank is two-thirds full	
Batteries are fully charged	
Battery charger is operating properly	
Battery terminals are clean	
Battery state of charge is checked	
Battery pilot lights are on	
Battery-failure pilot lights are off	
Engine-running-time meter is recording pump operation properly	
Oil level in right-angle gear drive is normal	
Diesel engine oil level is full	
Check for water in the fuel system	

Ref No: FP/AI/17/SSCL/01

## FIRE PUMPS

### Annual Inspections (Cont.)

Check piping for leaks	
Check tank vents and overflow piping for obstructions	
Check antifreeze protection level	
Check diesel exhaust system hangers and supports	
Tighten control and power wiring connections	
Diesel engine water level is full	
Water-jacket heater appears to be working properly	
Water-jacket piping is drip tight	
Diesel engine water hose is in good condition	
Coolant antifreeze protection is adequate	
Cooling line strainer is clean	
Solenoid valve is operating correctly	
Bearings and valves are lubricated	
System components	
Casing relief valve is free of damage	
Pressure relief valve is free of damage	
All valves, fittings, and pipes are leak tight	
Condensate drain trap is clean	
Fire pump controller power is on	
Transfer-switch normal pilot light is on	
Jockey pump is operational	
Jockey pump controlled power is on	
Jockey pump controller is set on "auto"	
Fire pump shaft coupling appears properly aligned	
Packing glands appear properly adjusted	
Test header control valve is closed	
Test header is in good condition	
Test header valves and caps are in good condition	
Test header valve handles are in good condition	
Test header valve swivel rotation is nonbinding	
Bypass control valves are open	
Control valves are sealed/not tampered	
Control valves are locked/tampered	
Control valves are properly tagged and identified	
Flow meter control valves are closed	
Relief valve and cone are operational	
Relief-valve pressure appears properly adjusted	

**Comments:** \_\_\_\_\_

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Ref No: FP/AI/17/SSCL/02

# FIRE PUMPS

## Quarterly and Semi-Annual Maintenance

Year: \_\_\_\_\_ System: \_\_\_\_\_

Location: \_\_\_\_\_

Y=Satisfactory

N=Unsatisfactory (explain below)

N/A=Not Applicable

### Quarterly

Date				
Inspector				
Clean Strainer				
Clean filter				
Clean dirt leg				
Clean crankcase breather				
Clean and tighten battery terminals				
Clean water strainer of cooling system				
Examine wire insulation for breaks, cracks, or chafing				

### Semi-Annually (diesel pumps only)

Date		
Inspector		
Test antifreeze level		
Inspect flexible exhaust section of diesel exhaust piping		
Clean boxes, panels, and cabinets		
Test all safeties and alarms for proper operation		

Comments: \_\_\_\_\_

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