

Diesel Fire Pump Weekly Inspection and Operating Test

Date: _____

System: _____

Location: _____

Y = Satisfactory

N = Unsatisfactory (explain below)

N/A = Not applicable

Inspector: _____

To avoid false alarms, notify all alarm-receiving facilities before conducting any test or procedure that could result in the activation of an alarm.

WEEKLY INSPECTION	Y	N	N/A	Comments
Heat in pump room is 40°F (4.4°C) or higher	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ventilating louvers in pump room are free to operate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pump suction, discharge, and bypass valves are fully open	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
No piping or hoses leak	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fire pump leaking one drop of water per second at seals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Horizontal pumps: Check drip pockets under packing glands for proper drainage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Suction line pressure is within acceptable range while pump is off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
System line pressure is within acceptable range while pump is off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Suction reservoir is full	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Wet pit suction screens are unobstructed and in place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fuel tank is at least two-thirds full	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Controller selector switch is in auto position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Batteries (2) voltage readings are within acceptable range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Batteries (2) charging current readings are within acceptable range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Batteries (2) pilot lights are on or battery failure (2) pilot lights are off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All alarm pilot lights are off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Engine running time meter is reading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Oil level in right-angle gear-drive pumps is within acceptable range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Crankcase oil level is within acceptable range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooling water level is within acceptable range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

WEEKLY INSPECTION	Y	N	N/A	Comments
Electrolyte level in batteries is within acceptable range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Battery terminals are free of corrosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Water-jacket heater is operational	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check lube oil heater for operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Examine exhaust system for leaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Drain condensate trap of cooling system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check for water in fuel tank.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

WEEKLY TEST (without flowing water)	Y	N	N/A	Comments
<i>Start pump automatically by drawing off water from the sensing line. Remain in the pump room throughout the running time.</i>				
Operate diesel fire pump for 30 minutes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Record suction pressure from gauge in psi (bar) while pump is running	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Record discharge pressure from gauge in psi (bar) while pump is running	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check packing gland tightness (should have slight discharge)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Adjust gland nuts if necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check for unusual noise or vibration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check packing boxes, bearings, or pump casing for overheating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Record pump starting pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Record time to crank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Record time to reach running speed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check oil pressure gauge, speed indicator, water and oil temperatures periodically while engine is running	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check heat exchanger for cooling water flow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Test fuel tank float switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Test solenoid valve operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Operate speed governor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check controller alarms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Record any notes that the inspector believes to be significant in the corresponding action's comments field.</i>				
<i>Report any abnormality observed during inspection or testing to the person responsible for correcting the abnormality</i>				