



<b>Inspection, Testing, and Maintenance Fire Pumps NFPA 25, Chapter 8 as amended by CCR, Title 19</b>		<b>Page 1 of 8</b>
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Annual Fire Pump Test Results						
Date of Pump Test: _____  Shaft Orientation: <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Number of pumps at this location: _____ If multiple pumps: <input type="checkbox"/> Series arrangement <input type="checkbox"/> Parallel arrangement <b>NOTE: Submit a separate form for each pump</b>	Type of Driver: <input type="checkbox"/> Electric <input type="checkbox"/> Diesel <input type="checkbox"/> Gasoline <input type="checkbox"/> Steam <input type="checkbox"/> Gas				
Nameplate Data	Test Results					
Shutoff Pressure	psi	<i>Flow (gpm)</i>	<i>Net Pump Pressure (psi)</i>	<i>RPM</i>	<i>Volts</i>	<i>Amps</i>
100% Rated Capacity	gpm					
100% Rated Pressure	psi					
150% Rated Capacity	gpm					
65% Rated Pressure	psi					
Rated RPM	rpm					
Type of Test: <input type="checkbox"/> Discharge to Atmosphere <input type="checkbox"/> Recirculation						
Test Equipment <input type="checkbox"/> Flow Meter / Size: _____ <input type="checkbox"/> Play pipe (1-1/8") <input type="checkbox"/> Play pipe (1-3/4") <input type="checkbox"/> Diffuser / Size: _____	Controller: _____  Manufacturer: _____  Serial Number: _____					

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<b>FIRE PUMP INSPECTIONS</b>							
Item	Activity	Frequency	Description	NFPA 25 Reference	Fail	N/A	Pass
1.1	I	Weekly	Pump House heating and ventilating louvers	8.2.2(1)			
1.2	I	Weekly	Circulation Relief Valve	12.5.6.1			
1.3	I	Weekly	Pressure Relief Valve	12.5.6.2			
1.4	I	Quarterly	Control Valves	12.3.2.1			
			<b>Fire Pump System:</b>	8.2.2(2)			
1.5	I	Weekly	a. Pump Suction, discharge, and bypass valves are open.	8.2.2(2)(a)			
1.6	I	Weekly	b. Piping is free of leaks.	8.2.2(2)(b)			
1.7	I	Weekly	c. Suction pressure gauge reading is normal	8.2.2(2)(c)			
1.8	I	Weekly	d. System line pressure gauge reading is normal	8.2.2(2)(d)			
1.9	I	Weekly	e. Suction reservoir is full.	8.2.2(2)(e)			
1.10	I	Weekly	f. Wet pit suction screens are unobstructed and in place.	8.2.2(2)(f)			
			<b>Electrical System Conditions:</b>	8.2.2(3)			
1.11	I	Weekly	a. Controller pilot light is illuminated.	8.2.2(3)(a)			
1.12	I	Weekly	b. Transfer switch normal pilot light is illuminated.	8.2.2(3)(b)			
1.13	I	Weekly	c. Isolating switch is closed – standby (emergency) source.	8.2.2(3)(c)			
1.14	I	Weekly	d. Reverse phase alarm pilot light is off or normal phase rotation pilot light is on.	8.2.2(3)(d)			
1.15	I	Weekly	Oil level in vertical motor sight glass is normal.	8.2.2(3)(e)			
			<b>Diesel Engine System Conditions:</b>	8.2.2(4)			
1.16	I	Weekly	a. Fuel tank is two-thirds full.	8.2.2(4)(a)			

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Item	Activity	Frequency	Description	NFPA 25 Reference	Fail	N/A	Pass
1.17	I	Weekly	b. Controller selector switch is in "auto" position.	8.2.2(4)(b)			
1.18	I	Weekly	c. Batteries (2) voltage readings are normal	8.2.2(4)(c)			
1.19	I	Weekly	d. Batteries (2) charging current readings are normal	8.2.2(4)(d)			
1.20	I	Weekly	e. Batteries (2) pilot lights are on or battery failure (2) lights are off.	8.2.2(4)(e)			
1.21	I	Weekly	f. All alarm pilot lights are off.	8.2.2(4)(f)			
1.22	I	Weekly	g. Engine running time meter is reading.	8.2.2(4)(g)			
1.23	I	Weekly	h. Oil level in right angle gear drive is normal.	8.2.2(4)(h)			
1.24	I	Weekly	i. Crankcase oil level is normal.	8.2.2(4)(i)			
1.25	I	Weekly	j. Cooling water level is normal.	8.2.2(4)(j)			
1.26	I	Weekly	k. Electrolyte level in batteries is normal.	8.2.2(4)(k)			
1.27	I	Weekly	l. battery terminals are free from corrosion.	8.2.2(4)(l)			
1.28	I	Weekly	m. Water-jacket heater is operating.	8.2.2(4)(m)			
			<b>Steam System Conditions:</b>	8.2.2(5)			
1.29	I	Weekly	Steam pressure gauge reading is normal.	8.2.2(5)			
			<b>Pump System:</b>	Table 8.5.3(A)			
1.30	I	A-O	Wet pit suction screens	Table 8.5.3(A)(5)			
			<b>Electrical System:</b>	Table 8.5.3(C)			
1.31	I	Annually	Inspect emergency manual starting means	Table 8.5.3(C)(4)			
			<b>Diesel Engine System:</b>	Table 8.5.3(D)			
1.32	I	Weekly	Fuel: Tank Level.	Table 8.5.3(D)(1)(a)			

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Item	Activity	Frequency	Description	NFPA 25 Reference	Fail	N/A	Pass
1.33	I	Weekly	Fuel: Tank Float Switch	Table 8.5.3(D)(1)(b)			
1.34	I	Weekly	Fuel: Solenoid valve operation	Table 8.5.3(D)(1)(c)			
1.35	I	Weekly	Fuel: Flexible hoses and connectors	Table 8.5.3(D)(1)(g)			
1.36	I	Weekly	Lubrication System: Oil level.	Table 8.5.3(D)(2)(a)			
1.37	I	Weekly	Cooling System: Level	Table 8.5.3(D)(3)(a)			
1.38	I	Weekly	Cooling System: Adequate cooling water to heat exchanger.	Table 8.5.3(D)(3)(d)			
1.39	I	Weekly	Cooling System: Water pumps.	Table 8.5.3(D)(3)(f)			
1.40	I	Weekly	Cooling System: Condition of flexible hoses and connections.	Table 8.5.3(D)(3)(g)			
1.41	I	Weekly	Cooling System: Jacket water heater	Table 8.5.3(D)(3)(h)			
1.42	I	Weekly	Battery System: Electrolyte level.	Table 8.5.3(D)(5)(a)			
1.43	I	Weekly	Exhaust System: Leakage	Table 8.5.3(D)(4)(a)			
1.44	I	Weekly	Electrical System: General inspection	Table 8.5.3(D)(6)(a)			
1.45	I	Monthly	Battery System: Charger and charge rate.	Table 8.5.3(D)(5)(e)			
1.46	I	Monthly	Battery System: Equalize charge.	Table 8.5.3(D)(5)(f)			
1.47	I	Monthly	Electrical System: Circuit breakers or fuses.	Table 8.5.3(D)(6)(f)			
1.48	I	Quarterly	Lubrication System: Crankcase breather	Table 8.5.3(D)(2)(e)			
1.49	I	Quarterly	Exhaust System: Insulation and fire hazards.	Table 8.5.3(D)(4)(c)			
1.50	I	Quarterly	Battery System: Terminals clean and tight.	Table 8.5.3(D)(5)(b)			
1.51	I	Quarterly	Electrical System: Wire chafing where subject to moving.	Table 8.5.3(D)(6)(c)			
1.52	I	Semiannually	Cooling System: Antifreeze protection level	Table 8.5.3(D)(3)(b)			

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Item	Activity	Frequency	Description	NFPA 25 Reference	Fail	N/A	Pass
1.53	I	Semiannually	Exhaust System: Flexible exhaust section.	Table 8.5.3(D)(4)(f)			
1.54	I	Annually	Fuel: Tank vents and overflow piping is unobstructed.	Table 8.5.3(D)(1)(h)			
1.55	I	Annually	Fuel: Piping.	Table 8.5.3(D)(1)(i)			
1.56	I	Annually	Cooling System: Inspect ductwork	Table 8.5.3(D)(3)(i)			
1.57	I	Annually	Exhaust System: Hangers and supports.	Table 8.5.3(D)(4)(e)			
<b>FIRE PUMP TESTS</b>							
2.1	T	Weekly	Pump Operation – No Flow condition	8.3.1			
2.2	T	Monthly	Engine Generator Sets	NFPA 110			
2.3	T	Annually	Control Valve – Position	12.3.3.1			
2.4	T	Annually	Control Valve – Operation	12.3.3.1			
2.5	T	Annually	Supervisory	12.3.3.5			
2.6	T	Annually	Pump Operation – Flow condition	8.3.3.1			
2.7	T	5 Year	Pressure Reducing Valve	12.5.1.2			
2.8	T		Automatic Transfer Switches	NFPA 110			
			<b>Pump System:</b>	Table 8.5.3(A)			
2.9	T	Annually	Pump System: Check Pump shaft end play.	Table 8.5.3(A)(2)			
2.10	T	Annually	Pump System: Check accuracy of pressure gauges and sensors.	Table 8.5.3(A)(3)			
2.11	T	Annually	Pump System: Check pump coupling alignment.	Table 8.5.3(A)(4)			
2.12	T	Annually	Pressure Relief Valve	12.5.6.2.2			
2.13	T	Annually	Circulation Relief Valve	12.5.6.1.2			

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Item	Activity	Frequency	Description	NFPA 25 Reference	Fail	N/A	Pass
			<b>Electrical System:</b>	Table 8.5.3(C)			
2.14	T	Monthly	Electrical System: Exercise isolating switch and circuit breaker.	Table 8.5.3(C)(1)			
2.15	T	Semiannually	Electrical System: Operate manual starting means (electrical).	Table 8.5.3(C)(3)			
2.16	T	Annually	Electrical System: Trip circuit breaker (if mechanism provided).	Table 8.5.3(C)(2)			
2.17	T	Annually	Electrical System: Operate emergency manual starting means (without power).	Table 8.5.3(C)(4)			
			<b>Diesel Engine System:</b>	Table 8.5.3(D)			
2.18	T	Monthly	Battery System: Specific Gravity or state of charge	Table 8.5.3(D)(5)(d)			
2.19	T	Semiannually	Electrical System: Operation of safeties and alarms.	Table 8.5.3(D)(6)(d)			
2.20	T	Annually	Exhaust System: Excessive back pressure	Table 8.5.3(D)(4)(d)			
<b>Fire Pump Maintenance (NFPA 25: 8.5.1)</b>							
3.1	M	Annually	Control valves	12.3.4			
			<b>Pump System:</b>	Table 8.5.3(A)			
3.2	M	Annually	Lubricate pump bearings	Table 8.5.3(A)(1)			
			<b>Mechanical Transmission:</b>	Table 8.5.3(B)			
3.3	M	Annually	Lubricate Coupling	Table 8.5.3(B)(1)			
3.4	M	Annually	Lubricate right-angle gear drive	Table 8.5.3(B)(2)			
			<b>Electrical System:</b>	Table 8.5.3(C)			
3.5	M	Annually	Tighten electrical connections	Table 8.5.3(C)(5)			
3.6	M	Annually	Lubricate mechanical moving parts (excluding starters and relays)	Table 8.5.3(C)(6)			

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3.7	M	Annually	Calibrate pressure switch settings.	Table 8.5.3(C)(7)			
3.8	M	Annually	Grease motor bearings	Table 8.5.3(C)(8)			
			<b>Diesel Engine System:</b>	Table 8.5.3(D)			
3.9	M	Weekly	Fuel: Water in system.	Table 8.5.3(D)(1)(f)			
3.10	M	Quarterly	Fuel: Strainer, filter, or dirt leg, or combination thereof.	Table 8.5.3(D)(1)(d)			
3.11	M	Annually	Fuel: Water or foreign material in tank.	Table 8.5.3(D)(1)(e)			
3.12	M	Annually	Cooling System: Antifreeze	Table 8.5.3(D)(3)(c)			
			<b>Lubrication System:</b>	Table 8.5.3(D)(2)			
3.13	M	Weekly	Lube oil heater	Table 8.5.3(D)(2)(d)			
3.14	M	Quarterly	Crankcase breather	Table 8.5.3(D)(2)(e)			
3.15	M	Annually/50 Hours	Oil change	Table 8.5.3(D)(2)(b)			
3.16	M	Annually/50 Hours	Oil Filter(s)	Table 8.5.3(D)(2)(c)			
			<b>Cooling System:</b>	Table 8.5.3(D)(3)			
3.17	M	Quarterly	Water Strainer	Table 8.5.3(D)(3)(j)			
3.18	M	Semiannually	Antifreeze protection level.	Table 8.5.3(D)(3)(b)			
3.19	M	Annually	Rod out heat exchanger.	Table 8.5.3(D)(3)(e)			
3.20	M	Annually	Clean louvers.	Table 8.5.3(D)(3)(i)			
			<b>Exhaust System:</b>	Table 8.5.3(D)(4)			
3.21	M	Weekly	Drain condensate trap.	Table 8.5.3(D)(4)(b)			

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			<b>Battery System:</b>				
3.22	M	Monthly	Remove corrosion, case exterior clean and dry.	Table 8.5.3(D)(5)(c)			
			<b>Electrical System:</b>	Table 8.5.3(D)(6)			
3.23	M	Semiannually	Boxes, panels, and cabinets.	Table 8.5.3(D)(6)(e)			
3.24	M	Annually	Tighten control and power wiring connections.	Table 8.5.3(D)(6)(b)			
3.25	M	Biannually	Circuit breakers and fuses	Table 8.5.3(D)(6)(g)			

Item	Deficiencies and Comments: Deficiencies and Comments Item number must correspond to the Item number of the Activity listed above:

See Continuation Page(s) \_\_\_\_\_ (Indicate the number of continuation pages)

PASS

FAIL

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