

NFPA 25 ITM Quick Reference Guide Sprinklers Systems & Fire Pumps - Inspection, Testing, Maintenance

	DAILY/WEEKLY	MONTHLY	QUARTERLY*	ANNUALLY	3+ YEARS		
			SPRINKLER SYSTEM				
INSPECTION	 Backflow prevention assemblies (reduced pressure and reduced pressure detector assemblies) 13.7.1 Control valves; unsecured and unsupervised 13.3.2.1 Dry pipe valves/ quick-opening devices; enclosure (during cold weather) 13.4.5.1.1 Deluge valve; enclosure (during cold weather) 13.4.4.1.1 Preaction valves; enclosure *during cold weather) 13.4.3.1.1 	 Gauges (dry and preaction systems) 13.2.7.1.3 Gauges; operable and not physically damaged 13.2.7.1.1 Control valves; locked or supervised 13.3.2.1.1 Dry pipe valves/ quick-opening devices; exterior 13.4.5.1.3 Deluge valve; exterior 13.4.4.1.3 Preaction valves; exterior 13.4.3.1.3 	 Gauges (wet and deluge systems) 13.2.7.1.2 Control valves; electronically supervised 13.3.2.1.2 Supervisory signal devices (except valve supervisory switches) 5.2.4 Valve supervisory signal devices 5.2.4 Waterflow alarm devices 5.2.4 Fire department connection 13.7.1 Sprinkler pressure-reducing valves 13.5.1.1 Valve supervisory signal initiating device (semiannually) 13.3.2.1.2 Supervisory signal devices (except valve supervisory switches) 5.2.5 Hose valves 13.6.1 Alarm valves; exterior 13.4.1.1 	 Hanger/braces/supports 5.2.3 Hydraulic design information sign 5.2.5 Information signs 5.2.7; 5.2.8 Antifreeze Information sign 5.2.9 Pipe and fittings 5.2.2 Sprinklers (spare) 5.2.1.4 Dry pipe valves/quick-opening devices; interior 13.4.5.1.4 Deluge valve; interior (annually or 5 years) 13.4.4.1.4 Preaction valves; interior (annually or 5 years) 13.4.3.1.4 Hose connection pressure-regulating devices 13.5.2.1 Hose rack assembly pressure-regulating devices 13.5.3.1 	 5 YEARS Check valves; interior 13.4.2.1 Dry pipe valves/quick-opening devices; strainers, filters, orifices 13.4.5.1.5 Deluge valve; strainers, filters, orifices 13.4.4.1.5 Deluge valve interior (annually or 5 years) 13.4.4.1.4 Preaction valves; interior (annually or 5 years) 13.4.3.1.4 Preaction valves; strainers, filters, orifices 13.4.3.1.5 Alarm valves; strainers 13.4.1.2 Alarm valves; strainers, filters, orifices 13.4.1.2 		
	FIRE PUMPS						
	 Diesel pump system 8.2.2(4) Electric pump system 8.2.2(3) Pump 8.2.2(2) Pump house/room 8.2.2(1) Steam pump system 8.2.2(5) 		• Engine crankcase breather 8.1.1.2.12	 Alignment 8.3.6.4 Cable/wire insulation 8.1.1.2.5 Exhaust system and drain condensate trap 8.1.1.2.13 Flexible hoses and connections 8.1.1.2.11 Fuel tank vents and overflow 8.1.1.2.10 Plumbing parts - inside and outside of panels 8.1.1.2.6 Printed circuit board corrosion (PCBs) 8.1.1.2.4 Shaft movement or endplay while running 8.1.1.2.1 Pressure gauges and sensors 8.1.1.2.21 Suction screens 8.3.3.12 			
			SPRINKLER SYSTEM				
TESTING			 Waterflow alarm devices (mechanical) 5.3.2.1 Waterflow alarm devices (vane and pressure switch type) (semiannually) 5.3.2.2 Control valve; supervisory switches (semiannually) 13.3.3.5.1 Dry pipe valves/quick-opening devices; priming water 13.4.5.2.1 Dry pipe valves/quick-opening devices; quick opening devices 13.4.5.2.4 Preaction valves; priming water 13.4.3.2.1 Mechanical waterflow alarm devices 13.2.6.1.2 Waterflow alarm devices (vane-type, paddle-type, and pressure switch-type) (semiannually) 13.2.6.2.2 	 Antifreeze solution 5.3.3 Backflow prevention assemblies 13.7.2.1 Control valve; position and operation 13.3.3.1 Deluge valve; trip test (or 3 years) 13.4.4.2.3 Dry pipe valves/quick-opening devices; trip test (or 3 years) 13.4.5.2.2.3 Dry pipe valves/ quick-opening devices; low air pressure alarm 13.4.5.2.6 Main drain (or quarterly) 13.2.5 Preaction valves/ low air pressure alarms (or quarterly) 13.4.3.2.10 Preaction valves; trip test (or 3 years) 13.4.3.2.3 Circulation relief valves 13.5.6.1.2 Main pressure relief valves 13.5.6.2.3 Hose valves 13.6.2.1 Supervisory signal devices (except valve supervisory switches) 13.2.8.2 	 3 YEARS Dry pipe valves/quick-opening devices 13.4.5.2.2.1 Dry pipe valves/quick-opening devices; full flow trip test 13.4.5.2.2.2 Preaction valves; air leakage 13.4.3.2.5 5 YEARS Gauges Chapter 13 Extra high or greater sprinklers 5.3.1.1.1.4 Sprinklers in harsh environment 5.3.1.1.2 Sprinkler pressure-reducing valve; full flow test 13.5.1.2 Hose connection pressure-regulating devices 13.5.2.2 Hose rack assembly pressure regulating devices 13.5.3.2 10+ YEARS Sprinklers (@ 50 years and every 10 thereafter) 5.3.1.1.1.5 Dry sprinklers (@10 years and every 10 thereafter) 5.3.1.1.1.6 Fast response sprinklers (@20 years and every 10 thereafter) 5.3.1.1.1.3 		
			FIRE PUMPS				
	 Diesel engine-driven fire pump 8.3.1.1 Electric motor-driven fire pump 8.3.1.2 	• Electric motor-driven fire pump 8.3.1.2	 Fuel tank, float switch, and supervisory signal for interstitial space 8.1.1.2.7 	 Diesel fuel testing 8.3.4.1 Fire pump alarm signals 8.3.3.10 Main relief valve 8.3.2.1.1 Power transfer switch 8.3.3.9 Pump performance (flow) 8.3.3.1 Supervisory signal for high cooling water temperature 8.1.1.2.8 			



	DAILY/WEEKLY	MONTHLY	QUARTERLY*	ANNUALLY	3+ YEARS	
			SPRINKLER SYSTEM			
FENANCE				 Sprinklers and automatic spray nozzles protecting commercial cooking equipment and ventilation systems 5.4.1.7 Control valves 13.3.4 Dry pipe valves/quick-opening devices 13.4.5.3 Hose valves 13.6.3 Preaction valves 13.4.3.3 Deluge valves 13.4.4.3 		
	FIRE PUMPS					
MAIN	Miscellaneous • Controller - ITM per manufacture • Diesel engine system - ITM per m • Electric motor and power system	er 8.5 hanufacturer 8.5 h - ITM per manufacturer 8.5		 Batteries 8.1.1.2.15 Circulating water filter 8.1.1.2.20 Control and power wiring connections 8.1.1.2.16 Electrical Connections 8.1.1.2.2 Engine lubricating oil (or 50 operating hours) 8.1.1.2.17 Engine oil filter (or 50 operating hours) 8.1.1.2.18 Fuel tank - check for water & foreign materials 8.1.1.2.9 Measure back pressure on engine turbo 8.1.1.2.14 Sacrificial anode 8.1.1.2.19 		

Visit the NFPA 25 document information page www.nfpa.org/25 for up-to-date information on NFPA * 25, Standard on the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems.