

**Reference Guide for Building Operation, Maintenance & Recordkeeping (Fire Safety Director Continuing Education) Graduation Test**

**Reference Guide Defining Individuals Qualified as to whom can Perform Inspection, Testing and Maintenance for Water-Based Fire Suppression piping system.**

<b>C of F</b>	<b>Certificate of Fitness for (S-12) City wide Sprinkler System.</b>
<b>Engineer</b>	<b>Refrigeration Operating Engineer (Q-01 &amp; Q-99), NYC High Pressure Operating Engineer, NYS High Pressure Operating Engineer with S-12 C of F.</b>
<b>MFSPC</b>	<b>Master Fire Suppression Piping Contractor License with S-12 C of F.</b>
<b>MP</b>	<b>Master Plumber License (MP) with S-12 C of F.</b>
<sup>1</sup> Limited to residential occupancies 30 sprinkler heads or less with out booster pump. <sup>2</sup> S-95 Supervision for Fire alarm Systems & other related systems. <sup>3</sup> Follow testing requirement. <sup>4</sup> Record must be maintained to be checked annually. <sup>5</sup> Must be performed once annually by licensed contractor.	

Components	May be performed by					
	C of F	Engineer	MFSPC	MP		
<b>I. INSPECTION</b>						
<b>A. Sprinkler Systems</b>						
<b>Frequency</b>						
<b>WEEKLY (52)</b>						
Gauge (dry, pre-action, deluge sys) Non supervised	Yes	Yes	Yes	Yes		
<b>MONTHLY (12)</b>						
Gauge (dry, preaction, deluge sys) supervised	Yes	Yes	Yes	Yes		
Gauge – Wet pipe system	Yes	Yes	Yes	Yes		
<b>QUARTERLY (4)</b>						
Alarm devices	Yes	Yes	Yes	Yes		
Hydraulic name plate	Yes	Yes	Yes	Yes		
<b>ANNUALLY (1)</b>						
Buildings – (prior to freezing weather) exterior of building should be examined to prevent freeze-ups fire suppression piping.	Yes	Yes	Yes	Yes		
Hanger/seismic bracing	Yes	Yes	Yes	Yes		
Pipe and fittings	Yes	Yes	Yes	Yes		
Spare sprinkler heads/wrenches	Yes	Yes	Yes	Yes		
Sprinkler heads	Yes	Yes	Yes	Yes		
<b>B. Fire, Booster and Special Service Pumps</b>						
<b>WEEKLY (52)</b>						
Pump, house, heating ventilating louvers	Yes	Yes	Yes	Yes		
Fire pump system	Yes	Yes	Yes	Yes		
Diesel Engine System	Fuel	Tank level	Yes	Yes	Yes	Yes
		Tank float switch				
		Solenoids valve operation				
		Water in the fuel sys				
		Flexible hoses and connectors				
		Piping				
	Lubrication system	Tank vents & overflow piping unobstructed				
		Oil level				
		Lube oil heater				
		Crankcase breather				

	Cooling system	Level				
		Adequate cooling water to heat exchanger				
		Water pumps				
		Cond. Of flexible hoses & connection				
	Exhaust system	Jacket water heater				
		Leakage				
		Drain condensate trap				
		Hangers & supports				
	Battery system	Flexible exhaust section				
		Electrolyte level				
		Terminals clean and tight				
	Electrical system	Equalize charge				
General inspection						
Operation of safeties & alarms						
		Circuit breakers or fuses				
<b>MONTHLY (12)</b>						
Diesel Engine System		Circuit breakers or fuses	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
		Charger & charge rate	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>QUARTERLY (4)</b>						
Diesel Engine System	Exhaust system	Insulation & fire hazards	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
	Electrical system	Wire chafing where subject to movement				
<b>SEMIANNUALLY (2)</b>						
Diesel Engine System	Electrical system	Operation of safeties and alarms	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>ANNUALLY (1)</b>						
Fire pump system	Check accuracy of pressure gauges and sensors		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
	Check pump shaft endplay, coupling alignment					
	Wet pit suction screens					
Diesel Engine System	Cooling sys	Inspect duct work, clean louvers (combustion air)	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Electrical system <sup>2</sup>	Inspect emergency manual starting means ( without power)		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
	Tighten electrical connections as necessary					
	Lubricate mechanical moving parts (excluding starters & relays)					
	Calibrate pressure switch settings					
<b>C. Water Storage Tank</b>						
<b>DAILY (365)</b>						
Water temperature – without low temperature alarms (cold weather)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Heating System – without low temperature alarms (cold weather)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>WEEKLY (52)</b>						
Water temperature - with low temperature alarms (cold weather)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Heating system – with low temperature alarms (cold weather)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>MONTHLY (12)</b>						
Condition of water in tank – with out water level alarms (cold weather)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Water - level (with out water level alarms)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Air pressure - (with out supervised air pressure source)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>QUARTERLY (4)</b>						
Condition of water in tank - with water level temperature			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>

alarms (cold weather below 40°F)						
Water – level (with water level alarms)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Air pressure – (with supervised air pressure source)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Tank – exterior			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Support structure			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Catwalks and ladders			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Surrounding area			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>ANNUALLY (1)</b>						
Embankment-supported coated fabric (ESCF) suction tanks			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Hoops and grillage of wooden tanks (AKA Dunnage)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>3 YEARS</b>						
Interior – (steel tanks without corrosion protection)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>5 YEARS</b>						
Interior - all other types of tanks			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>D. Valve and Valve component</b>						
<b>DAILY (365)</b>						
Preaction valve and deluge valves - valve enclosure (during cold weather)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Dry pipe valves and quick opening devices – valve enclosure (during cold weather)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>WEEKLY (52)</b>						
Control Valves	Sealed		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Preaction valve and deluge valves - valve enclosure equipped with low temperature alarms ( during cold weather)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Dry pipe valves and quick opening devices – valve enclosure equipped with low temperature alarms ( during cold weather)			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Pressure reducing & Relief valves	Fire Pumps	Casing relief valves Pressure relief valves	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Backflow Prevention assemblies	reduced pressure reduced pressure detectors		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>MONTHLY (12)</b>						
Control Valves	Locked Tamper switches		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Alarm valves	Exterior		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Preaction and deluge valves – <b>Exterior</b>			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Dry pipe valves and quick opening devices - <b>Exterior</b>			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Pressure reducing & Relief valves	Fire Pumps	Casing relief valves Pressure relief valves	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Backflow Prevention assemblies (secured with locks or electrically supervised)	reduced pressure reduced pressure detectors		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>QUARTERLY (4)</b>						
Pressure reducing & Relief valves	Sprinkler systems Hose connections Hose racks		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Fire department connections			<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>ANNUALLY (1)</b>						
Preaction and deluge valves – interior (when trip test is conducted)			<b>No<sup>3</sup></b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Dry pipe valves and quick opening devices - interior (when trip test is conducted)			<b>No<sup>3</sup></b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Check valves(Preaction/deluge valves, dry pipe valves/quick-opening devices)			<b>No<sup>3</sup></b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>5 YEARS</b>						
Alarm valves	Interior Strainers, filters, orifices		<b>No<sup>3</sup></b>	<b>No<sup>3</sup></b>	<b>Yes</b> <b>Yes</b>	<b>Yes</b> <b>Yes</b>

Check Valves - Interior		<b>No<sup>3</sup></b>	<b>No<sup>3</sup></b>	<b>Yes</b>	<b>Yes</b>
Preaction and deluge valves	Strainers, filters, orifices	<b>No<sup>3</sup></b>	<b>No<sup>3</sup></b>	<b>Yes</b>	<b>Yes</b>
Dry pipe valves and quick opening devices	Strainers, filters, orifices	<b>No<sup>3</sup></b>	<b>No<sup>3</sup></b>	<b>Yes</b>	<b>Yes</b>

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<b>Components</b>		<b>May be performed by</b>			
		<b>C of F</b>	<b>Engineer</b>	<b>MFSPC</b>	<b>MP<sup>1</sup></b>
<b>II. TEST</b>					
<b>A. Sprinkler Systems</b>					
<b>QUARTERLY (4)</b>					
Alarm Devices	water motor gong	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
	pressure switch type	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
<b>SEMIANNUALLY (2)</b>					
Alarm Devices (Vane type water flow devices)		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
<b>ANNUALLY (1)</b>					
Antifreeze solution		<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
<b>5 YEARS</b>					
Gauges - Remove send for test (calibrated) or replace as required		<b>No</b>	<b>Yes<sup>4</sup></b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
Sprinklers - Remove send for extra high temperature test and replace as required		<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
<b>10 years &amp; every 10 yrs thereafter</b>					
Sprinklers - Dry type		<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
<b>20 years &amp; every 10 yrs thereafter</b>					
Sprinklers – fast response and residential		<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
<b>50 years &amp; every 10 years after</b>					
Sprinklers (Standard Response)		<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
<b>B. Fire, Booster and Special Service Pumps</b>					
<b>WEEKLY (52)</b>					
Pump operation - No-flow condition		<b>No</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
Fire pump – Electric pump (minimum of 10 minutes)		<b>No</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
Diesel Engine system	tank float switch	<b>No</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
	Solenoids valve operation				
<b>MONTHLY (1)</b>					
Electrical system <sup>2</sup>	Isolating switch & circuit breaker	<b>No</b>	<b>Yes<sup>4</sup></b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
Battery system	Specific gravity or state of charge				
<b>SEMIANNUALLY (2)</b>					
Electrical system <sup>2</sup>	Operating manual starting means (electrical)	<b>No</b>	<b>Yes<sup>4</sup></b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
Diesel Engine System	Cooling system	<b>No</b>	<b>Yes<sup>4</sup></b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
	Antifreeze protection level				
	fuel				
	Tank float switch				
	Solenoids valve				

		operation				
	Electrical system	Operation of safeties and alarms				
<b>ANNUALLY (1)</b>						
Pump operation - Flow condition			No	No	Yes	No
Electrical system <sup>2</sup>	Trip circuit breaker( if mechanism provided)		No	No	Yes	No
	Operate emergency manual starting means( without power)					
Exhaust system	Excessive back pressure		No	No	Yes	No
Diesel Engine System	Tank vents and overflow piping unobstructed		No	No	Yes	No
<b>C. Water Storage Tank</b>						
<b>MONTHLY (12)</b>						
Temperature alarms (cold weather)			No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
High temperature limit switches (cold weather)			No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
<b>SEMIANNUALLY (2)</b>						
Water level alarms			No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
<b>5 YEARS</b>						
Level indicators			No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
Pressure gauges			No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
<b>D. Valve and Valve Component</b>						
<b>QUARTERLY (4)</b>						
Main drain			No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
Water-Flow Alarms			No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
Preaction and deluge valves	Priming water		No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
	Low air pressure alarm					
Dry pipe valves and Quick Opening devices	Priming water		No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
	Low air pressure alarm					
	Quick-opening devices					
<b>SEMIANNUALLY (2)</b>						
Control Valves	Supervisory		No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
<b>ANNUALLY (1)</b>						
Main drain			No	No	Yes	Yes <sup>1</sup>
Preaction and deluge valves	Full flow		No	No	Yes	Yes <sup>1</sup>
Dry pipe valves and Quick Opening devices	Trip test		No	No	Yes	Yes <sup>1</sup>
Control Valves	Position		No	No	Yes	Yes <sup>1</sup>
	Operation					
Pressure reducing and Relief valves	Circulation relief		No	No	Yes	Yes <sup>1</sup>
	Pressure relief valves					
Backflow prevention Assemblies			No	No	Yes	Yes <sup>1</sup>
<b>3 YEARS</b>						
Dry pipe valves and Quick Opening devices	Full flow trip test		No	No	Yes	Yes <sup>1</sup>
<b>5 YEARS</b>						
Pressure reducing & Relief valves -	Sprinkler systems		No	No	Yes	Yes <sup>1</sup>
	Hose connections					
	Hose racks					

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<b>Components</b>			<b>May be performed by</b>			
			<b>C of F</b>	<b>Engineer</b>	<b>MFSPC</b>	<b>MP<sup>1</sup></b>
<b>III. MAINTENANCE</b>						
<b>A. Sprinkler Systems</b>						
<b>ANNUALLY (1)</b>						
Valves (all types)	Control valves	No	No	Yes	Yes <sup>1</sup>	
	Preaction/deluge	No	No	Yes	Yes <sup>1</sup>	
	Dry pipe valves /quick opening devices			Yes	Yes <sup>1</sup>	
Low point drains - (Dry pipe systems)		No	No	Yes	Yes <sup>1</sup>	
<b>5 YEARS</b>						
Obstruction Investigation		No	No	Yes	Yes <sup>1</sup>	
<b>B. Fire, Booster and Special Service Pumps</b>						
<b>WEEKLY (52)</b>						
Diesel engine system	Fuel	Clean water in the system	No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
<b>MONTHLY (12)</b>						
Diesel engine system	Battery sys	Remove corrosion, case exterior	No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
<b>QUARTERLY (4)</b>						
Diesel engine system	Fuel	Clean Strainer, filter or dirt leg or combination	No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
	Lubricating sys	Crankcase breather				
	Cooling sys	Water strainer				
	Battery sys	Remove corrosion, case exterior clean & dry				
<b>SEMIANNUALLY (2)</b>						
Diesel engine system	Electrical sys	Boxes, panels and cabinets	No	Yes <sup>5</sup>	Yes	Yes <sup>1</sup>
		Circuit breakers or fuses				
<b>ANNUALLY (1)</b>						
Hydraulic			No	No	Yes	Yes <sup>1</sup>
Pump system	Lubricate pump bearings		No	No	Yes	Yes <sup>1</sup>
	Check accuracy of pressure gauges & sensors					
	Wet pit suction screens (after each pump opera.)					
Mechanical transmission	Lubricate coupling		No	No	Yes	Yes <sup>1</sup>
	Lubricate right angle gear drive					

Electrical system	Grease motor bearings	<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>	
Controller, various components		<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>	
Motor		<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>	
Diesel engine system various components	Cooling sys	Inspect duct work clean louvers	<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>
		Rod out heat exchanger				
		Antifreeze				
	Lubrication sys	Oil change				
		Oil filters				
	Exhaust sys	Excessive back pressure				
<b>C. Water Storage Tank</b>						
Water level as required		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>	
<b>SEMIANNUALLY (2)</b>						
Drain silt		<b>No</b>	<b>Yes<sup>5</sup></b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>	
Electrical release component for Preaction/deluge system (i.e. smoke detectors) <sup>2</sup>		<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>	
<b>ANNUALLY (1)</b>						
Embankment-supported coated fabric (ESCF) suction tanks		<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>	
<b>D. Valve and Valve Component</b>						
<b>ANNUALLY (1)</b>						
Control valves		<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>	
Preaction and Deluge Valves		<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>	
Dry Pipe Valves and Quick-Opening Devices		<b>No</b>	<b>No</b>	<b>Yes</b>	<b>Yes<sup>1</sup></b>	



**XII. Inspection, Maintenance & Testing of Water Based Systems Inspections**

**Activities and Records**

<b>Red Tag</b>	Notify FDNY & owner immediately (Shall be fixed Immediately ) FC 901.7
<b>Orange Tag</b>	Notify FDNY & owner if deficiency is not corrected after 30 days
<b>Yellow Tag</b>	Notify FDNY & owner if deficiency is not corrected after 30 days

<b>Components</b>	<b>Inspection Activities (Reference NFPA 25 – 2002)</b>	<b>Notification of system Shut down</b>	<b>Components Checked Satisfactory  (Yes or No) If No, explain</b>
		<b>Impairment - Red Tag Critical Deficiency - Orange Tag Non-Critical Deficiency - Yellow Tag</b>	

**I. INSPECTION**

**A. Sprinkler Systems**

Sprinkler system Shut down	Fully shut down or partially	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
No Access	Control Valves inaccessible more than 30 days	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinklers	Leaking, heavily corroded, painted operating element or bulb or deflector or cover plate, heavily loaded foreign materials attached to or suspended from, improper orientation, glass bulbs that have lost fluid <b>(5.2.1.1.1)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinklers	Lightly corroded, painted frame arm or boss, lightly loaded <b>(5.2.1.1.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinklers	Spray pattern obstructed – less than 18” below deflector (storage, signs, banner, etc) <b>(5.2.1.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinklers	Spray pattern obstructed – greater than 18” below deflector (ducts, decks, etc over 4” wide, overhead doors) <b>(5.2.1.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Spare sprinkler cabinet	Cabinet missing, temp, over 100°F, not proper number and type, missing wrench for each type <b>(5.2.1.3(1) &amp; (2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Pipe and fittings	Leaking <b>(5.2.2.1)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Pipe and fittings	Poor condition/external corrosion, mechanical damage, not properly aligned, external loads <b>(5.2.2.1, 5.2.2.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Hangers & seismic braces	Damaged or loose <b>(5.2.3.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Gauges	Poor Condition <b>(5.2.4.1)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Gauges	Not showing normal water/air pressure <b>(5.2.4.1, 5.2.4.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Gauges	Freezer – system pressure lower than compressor <b>(5.2.4.1)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Building	Prior to freezing weather – exposed piping exposed to freezing <b>(5.2.5)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Building	Found during potential for freezing weather weather-exposed to freezing <b>(5.2.5)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Alarm devices	Physical damage apparent <b>(5.2.6)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Hydraulic nameplate	Not legible or missing <b>(5.2.7)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	

<b>B. Private Fire Service Mains</b>				
Exposed piping	Leaking <b>(7.2.2.1.2)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Exposed piping	Mechanical damage, corroded or not properly restrained <b>(7.2.2.1.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Mainline strainers	Plugged or fouled <b>(7.2.2.3)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Mainline strainers	Corroded <b>(7.2.2.3)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Dry barrel, we barrel & wall hydrant	Inaccessible, barrel contains ice, cracks in barrel <b>(7.2.2.4)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Dry barrel, wet barrel & wall hydrant	Barrel contains water, improper drainage from barrel, leaks at outlets or top of hydrant <b>(7.2.2.4)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Dry barrel, wet barrel & wall hydrant	Tightness of outlets, worn nozzle threads, worn operating nut, missing wrench <b>(7.2.2.4)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Monitor nozzles	Damaged, corroded or leaking <b>(7.2.2.6)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Hose/hydrant houses	Inaccessible <b>(7.2.2.7)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Hose/hydrant houses	Damaged <b>(7.2.2.7)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Hose/hydrant houses	Not fully Equipped <b>(7.2.2.7)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>C. Fire, Booster and Special Service Pumps</b>				
Pump house/room	Heat not adequate, temp. less than 40 (less than 70 for diesel pumps without engine heaters) <b>(8.2.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Pump house/room	Ventilating louvers not free to operate <b>(8.2.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Pump system	Suction, discharge or bypass valves not fully open, pipe leaking, suction line & system line pressure not normal, wet pit suction screens obstructed <b>(8.2.2)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Pump system	Suction reservoir not full, wet pit suction screens missing <b>(8.2.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Electrical system	No electrical power - controller pilot light not illuminated, transfer switch pilot light not illuminated, isolating switch not closed, reverse phase alarm pilot light on or normal phase light is off, oil level in vertical motor sight glass not normal <b>(8.2.2)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Electrical system	Circuit breakers and fuses over two years old <b>(8.2.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Electrical system	Electrical power is provided – controller pilot light not illuminated, transfer switch pilot light not illuminated, reverse phase alarm pilot light on or normal phase light is not illuminated <b>(8.2.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Diesel engine system	Fuel tank less than two-thirds full, controller selector switch not in auto position, battery voltage readings not normal, battery charging current not normal, battery pilot lights off or battery failure pilot lights on alarm pilot lights are on, engine running time meter not reading, oil level in right angle gear drive not normal, crankcase oil level not normal, cooling water level not normal, electrolyte level in batteries not normal, battery terminals	<b>orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	

	corroded, water-jacket heater not operating <b>(8.2.2)</b>			
Steam System	Steam pressure gauge reading not normal <b>(8.2.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>D. Water Storage Tanks</b>				
Water level	Water level and /or condition not correct <b>(9.2.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Air pressure	Air pressure in pressure tanks not correct <b>(9.2.2)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Heating system	heating system not operational, water temperature below 40 <b>(9.2.3)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Exterior	Tank exterior, supporting structure, vents, foundation, catwalks or ladders where provided damaged <b>(9.2.5.1)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Exterior	Area around tank has fire exposure hazard in form of combustible storage, trash, debris, brush or material <b>(9.2.5.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Exterior	Accumulation of material on or near parts that could result in accelerated corrosion or rot <b>(9.2.5.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Exterior	Ice buildup on tank and support <b>(9.2.5.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Exterior	Erosion exists on exterior sides or top of embankments supporting coated fabric tanks <b>(9.2.5.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Exterior	Expansion joints leaking or cracking <b>(9.2.5.3)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Exterior	Hoops and grills of wooden tanks in poor condition <b>(9.2.5.4)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Exterior	Exterior painted, coated, or insulated surfaces of tanks or supporting structure degraded <b>(9.2.5.5)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Interior (pressure tanks or steel tanks w/o corrosion protection every 3 years, all others every 5 years)	Pitting, corrosion, spalling , rot other forms of deterioration, waste materials exist, aquatic growth, local or general failure of interior coating <b>(9.2.6.3)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Interior (pressure tanks or steel tanks w/o corrosion protection every 3 years, all others every 5 years)	voids beneath floor with stand in the middle of tanks on ring type foundations <b>(9.2.6.5)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Interior (pressure tanks or steel tanks w/o corrosion protection every 3 years, all others every 5 years)	Heating system components or piping in poor condition <b>(9.2.6.6)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Interior (pressure tanks or steel tanks w/o corrosion protection every 3 years, all others every 5 years)	Blockage of anti-vortex plate <b>(9.2.6.7)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Interior (pressure tanks or steel tanks w/o corrosion protection every 3 years, all others every 5 years)	Deterioration of anti-vortex plate <b>(9.2.6.7)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	

<b>E. Water Spray Fixed Systems</b>				
Pipe and Fittings	Mechanical damage, missing or damaged paint or coating, rusted or corroded, not properly aligned or trapped sections, low point drains not functioning, improper location of rubber-gasketed fittings <b>(10.2.4.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Hangers & seismic braces	Damaged or missing , not securely attached to structural or piping, missing or damaged paint or coating, rusted or corroded <b>(10.2.4.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Water spray nozzles	Discharge devices missing, not properly positioned or pointed in design direction, loaded or corroded <b>(10.2.5.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Water spray nozzles	Missing caps or plugs if required or not free to operate as intended <b>(10.2.5.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Strainers	Strainer plugged or doubled <b>(10.2.7)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Strainers	Strainer damaged or corroded <b>(10.2.7)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Drainage	Trap sumps and drainage trenches blocked, retention embankments or dikes in disrepair <b>(10.2.8)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Ultra-High-Speed	Detectors have physical damage or deposits on lenses of optical detectors <b>(10.4.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Ultra-High-Speed	controllers found to have faults <b>(10.4.3)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>F. Foam-Water Sprinkler Systems</b>				
Alarm devices	Physical damage apparent <b>(11.1.3.1)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Pipe and fittings	Mechanical damage, missing or damaged paint or coating, rusted or corroded, not properly aligned or trapped sections, low point drains not functioning, improper location or poor condition or rubber-gasketed fittings <b>(11.2.3)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Hangers & seismic braces	Damaged or missing, not securely attached to structural or piping, missing or damaged paint or coating, rusted or corroded <b>(11.2.4)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Foam-water discharge devices	Discharge devices missing, not properly positioned or pointed in design direction, loaded or corroded <b>(11.2.5.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Foam-water discharge devices	Not free to operate as intended <b>(11.2.5.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Foam-water discharge devices	Missing caps or plugs if required <b>(11.2.5.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Foam-water discharge devices	Discharge devices not listed for use with foam concentrate <b>(11.2.5.4)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Foam Concentrate strainers	Blow-down vane open or not plugged <b>(11.2.7.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Drainage	Trap sumps and drainage trenches blocked, retention embankments or dikes in disrepair <b>(11.2.8)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Proportioning systems (all)	Proportioning system valves not in correct open/closed position in accordance with specified operating conditions <b>(11.2.9.3)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Proportioning systems (all)	Concentrate tank does not have correct quantity required by original design <b>(11.2.9.4)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Standard pressure proportioner	Automatic drains (ball drip valves) not free or open, external corrosion on foam concentrate tanks <b>(11.2.9.5.1)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Bladder tank proportioned	Water control valve to foam concentrate in “closed” position <b>(11.2.9.5.2)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Bladder tank proportioned	Foam in water surrounding bladder <b>(11.2.9.5.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Bladder tank proportioned	External corrosion on foam concentrate tank <b>(11.2.9.5.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Line proportioner	Strainer damaged, corroded, plugged or fouled, pressure vacuum vent not operating freely <b>(11.2.9.5.3)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Line proportioner	External corrosion on foam concentrate tank <b>(11.2.9.5.3)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Standard balanced pressure proportioner	Sensing line valves not open, no power to foam liquid pump <b>(11.2.9.5.4)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Standard balanced pressure proportioner	Strainer damaged, corroded, plugged of fouled, pressure vacuum vent not operating freely, gauges damaged or not showing proper pressures <b>(11.2.9.5.3)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
In-Line balanced pressure proportioner	Sensing line valves at pump unit or individual proportioner stations not open, no power to foam liquid pump <b>(11.2.9.5.4)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
In-Line balanced pressure proportioner	Strainer damaged, corroded, plugged of fouled, pressure vacuum vent not operating freely, gauges damaged or not showing proper pressures <b>(11.2.9.5.5)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Orifice plate proportioner	No power to foam liquid pump <b>(11.2.9.5.6)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Orifice plate proportioner	Strainer damaged, corroded, plugged of fouled, pressure vacuum vent not operating freely, gauges damaged or not showing proper pressures <b>(11.2.9.5.6)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Foam concentrate	Samples not taken and submitted for test <b>(11.2.10)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	

### **G. Valves, Valve components, and Trim**

Gauges	Poor condition <b>(13.2.7.1, 12.2.8.1)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Gauges	Not showing normal water/air pressure <b>13.2.7.1, 12.2.8.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Control valve	Improper closed position <b>(13.3.2.2, 12.3.2.2)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Control valve	Improper open position, leaking <b>(13.3.2.2, 12.3.2.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Control valve	Not sealed, locked or supervised, not accessible, no appropriated wrench if required, and no identification <b>(13.3.2.2, 12.3.2.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Alarm valve	External physical damage, trim valves not in appropriate open or closed position, retard chamber or alarm drain leaking <b>(12.4.1.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Alarm valve	Alarm valve, strainers, filters and restricted orifices not internally inspected after 5 years <b>(12.4.1.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Check valve	Check valve not internally inspected after 5 years <b>(12.4.2.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Valve enclosure	Not maintaining minimum 40°F temp. <b>(12.4.3.1.1, 12.4.4.1.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Preaction valve and deluge valve	External physical damage, trim valves not in appropriate open or closed position, valve seat leaking, <b>(12.4.3.1.6)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Preaction valve and deluge valve	Electrical components not in service, <b>(12.4.3.1.6)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Preaction valve and deluge valve	Interior of preaction valve/or deluge valve, strainers, filters, restricted orifices, and	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	

	diaphragm chambers not internally inspected after 5 years <b>(12.4.3.1.8)</b>			
Dry pipe valve/quick opening device	External physical damage, trim valves not in appropriate open or closed position, intermediate chamber leaking <b>(12.4.4.1.6)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Dry pipe valve/quick opening device	Dry pipe valve, strainers, filters and restricted orifices not internally inspected after 5 years <b>(12.4.4.1.6)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinkler pressure reducing control valves	Not in open position, not maintaining downstream pressures in accordance with the design criteria <b>(12.5.1.1)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
FDNY 5 year test not conducted	As per Chapter 9 NYC Fire Code	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinkler pressure reducing control valves	leaking, valve damaged, hand wheel missing or broken <b>(12.5.3.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Hose valves	Leaking, visible obstructions, caps, hose threads, valve handle, cap gasket, no restricting device, damaged or in poor condition <b>(12.5.5.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Preaction valves/ and deluge valve	Annual partial flow test results not available <b>(12.5.1.3)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Backflow prevention assemblies	Reduced pressure assemblies differential-sensing valve relief port continuously discharging <b>(12.6.1.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire Department connection	Not accessible, couplings & swivels damaged, do not rotate smoothly, clapper not operating properly or missing <b>(12.7.1)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire Department connection	Not visible, couplings & swivels do not rotate smoothly, plugs & caps or gaskets damaged or missing, check valve leaking, automatic drain not operating properly or missing <b>(12.7.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire department connection	Missing identification sign <b>(12.7.1)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	

## II. TEST

### A. Sprinkler Systems

Sprinklers – Standard	No test after 50 years, every 10 years thereafter <b>(5.3.1.1.1)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinklers – standard	prior to 1920 not replaced <b>(5.3.1.1.1.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinklers – fast response	No test after 20 years, every 10 years thereafter <b>(5.3.1.1.1.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinklers – solder-type 325 or greater	No test after 5 years, every 5 years thereafter <b>(5.3.1.1.1.3)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinklers-standard	No test after 75 years, every 5 years thereafter <b>(5.3.1.1.1.4)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinklers – dry type	No test after 10 years, every 10 years thereafter <b>(5.3.1.1.1.5)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinklers – subject to harsh environments	(Corrosive atmospheres, corrosive water supply, includes freezers and coolers) No test after 5 years, every 5 years thereafter <b>(5.3.1.1.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinklers – solder type	(Commercial-type cooking equipment. & ventilating systems) No replacement after one year <b>(5.4.1.9)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinklers in spray coating areas	Plastic or paper bags used to protect against overspray residue, with deposits or residue accumulation <b>(5.4.1.7.1, 5.4.1.7.2)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Gauges	Not replaced or calibrated in 5 years, not	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	

	accurate within 3% of scale <b>(5.3.2)</b>			
Alarm devices	Water motor and gong not functioning <b>(5.3.3)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Alarm devices	Pressure switch or vane type switch not functioning or no alarm <b>(5.3.4)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Antifreeze systems	Specific gravity of antifreeze not correct <b>(5.3.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Main drain	Large drop in full flow pressure or slow return to normal static pressure. <b>(10.3.7.1)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Obstruction Investigation	No inspection of main and branch line after 5 years or inspection revealed presence of MIC, zebra mussels, rust and scale <b>(14.2.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>B. Private Fire Service Mains</b>				
Underground and exposed piping	No flow test done after 5 years or test results not comparable to previous <b>(7.3.1)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Dry barrel & wall hydrant	Hydrant did not flow clear or did not drain within 60 minutes <b>(7.3.2.1, 7.3.2.4)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Monitor nozzles	Did not flow acceptable amount of water or did not operate through-out their full range <b>(7.3.3.1, 7.3.3.2)</b>	<b>orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>C. Fire, Booster and Special Service Pumps</b>				
Fire pump weekly test	Pump did not start automatically, electric pump did not run 10 minutes, diesel pump did not run 30 minutes <b>(8.3.1)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire pump weekly test – pump system	System suction and discharge gauge reading, or pump starting pressure not acceptable <b>(8.3.2.2)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire pump weekly test –pump system	Pump packing gland discharge not acceptable, unusual noise or vibration, packing boxes, bearings or pump casing overheating <b>(8.3.2.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire pump weekly test – electrical system	Time for motor to accelerate to full speed, time controller is on first step or time pump runs after starting not acceptable <b>(8.3.2.2)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire pump weekly test – diesel engine system	Time for engine to crank and time for engine to reach running speed not acceptable, low rpm, low oil pressure, high temperature, high cooling water pressure <b>(8.3.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire pump weekly test- steam system	Gauge reading and time for turbine to reach running speed not acceptable <b>(8.3.2)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire pump annual test	Churn condition not maintained for 30 minutes, circulation relief valve and /or pressure relief valve <b>(8.3.3.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire pump annual test	Pressure relief valve did not work properly at each flow condition <b>(8.3.3.3)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire pump annual test (with transfer switch)	Over current protective devices opened when simulating a power failure condition at peak load, power not transferred to alternate source, pump did not continue to perform at peak load, pump did not reconnect to normal power after removing power failure condition <b>(8.3.3.4)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire pump annual test	Alarms did not properly operate <b>(8.3.3.5)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Pump house/room	Heating lighting, ventilating systems did not pass test <b>(8.3.4.3)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire pump annual test	Parallel or angular alignment was not correct <b>(8.3.4.4)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Fire pump annual test	Flow test results are not within 5% of acceptance test or name plate <b>(8.3.5.4)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Fire pump annual test	Voltage readings at the motor are not within 5 % below or 10% above the rated (name-plate) <b>(8.3.5.6)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>D. Water Storage Tanks</b>				
Interior testing	Tank coating did not pass adhesion, coating thickness or wet sponge test <b>(9.2.7)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Interior testing	Tank walls and bottom did not pass ultrasonic test <b>(9.2.7)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Interior testing	Tank bottom seams did not pass vacuum box test <b>(9.2.7)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Testing	Level indicator not tested after 5 years, lacked freedom of movement or not accurate <b>(9.3.1)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Testing	Low water temperature alarm did not pass test <b>(9.3.3)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Testing	High water temperature limit switch did not pass test <b>(9.3.4)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Testing	High and low water level alarms did not pass test <b>(9.3.5)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Gauges	Not tested in 5 years, not accurate within 3% of scale <b>(9.3.6)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>E. Water Spray Fixed Systems</b>				
Operational test	Heat detection system did not operate within 40 seconds, flammable gas detection system did not operate within 20 seconds <b>(10.3.4.1.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Operational test	Test not done after 1 year <b>(10.3.1.1)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Operational test	Nozzles are plugged <b>(10.3.4.3.1)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Operational test	Nozzles are not correctly positioned <b>(10.3.4.3.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Operational test	Pressure readings are not comparable to original design requirements <b>(10.3.4.4)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Operation test	Manual actuation devices did not work properly <b>(10.3.6)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Main drain	Large drop in full flow pressure or slow return to normal static pressure <b>(10.3.7.1)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Ultra-High-Speed operational test	Response time was more than 100 milliseconds <b>(10.4.5)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Ultra-High-Speed operational test	Test not done after <b>(10.4.5)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>F. Foam-Water Sprinkler Systems</b>				
Alarm devices	Water motor and gong not functioning <b>(11.1.3.1.1, 11.3.1.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Alarm devices	Pressure switch or van type switch not functioning or no alarm <b>(11.1.3.1.2, 11.3.1.2)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Operational Test	Fire detection system did not operate within requirements of NFPA #72 <b>(11.3.2.4)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Operational Test	Test not done after 1 year <b>(11.3)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Operational Test	Nozzles are plugged <b>(11.3.2.6.1)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Operational Test	Nozzles are not correctly positioned <b>(11.3.2.6.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Operational Test	Pressure readings are not comparable to original design requirements <b>(11.3.2.7.3)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Operational Test	Manual actuation devices did not work properly <b>(11.3.4)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	



Operational Test	Foam sample did not pass concentration test <b>(11.3.5)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Main drain	Large drop in full flow pressure or slow return to normal static pressure <b>(10.3.7.1)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Obstruction Investigation	No inspection of main and branch line after 5 years or inspection revealed presence of MIC, zebra mussels, rust and scale <b>(14.2.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>G. Valves, Valve components, and Trim</b>				
Alarm devices	Water motor and gong not functioning <b>(12.2.7)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Alarm devices	Pressure switch or vane type switch not functioning or no alarm <b>(12.2.7)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Gauges	not replaced or calibrated in 5 years, not accurate within 3% of scale <b>(12.2.8.1 - 12.2.8.3)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Control valve	Valve will not operate through its full range <b>(12.3.3.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Control valve	No spring or Torsion felt in rod when opening post indicator valve <b>(12.3.3.2)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Supervisory switches	No signal from two revolutions of the hand wheel from normal position or when stem has moved 1/5 of the distance from normal position, signal restored in position other than normal <b>(12.3.3.5.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Preaction valve	Priming water level not correct <b>(12.4.3.2.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Deluge valve	Annual full flow trip test revealed plugged nozzles, pressure reading at hydraulically most remote nozzle and/or at valve not comparable to original design values, manual actuation devices did not operate properly <b>(12.4.2.2.3)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Preaction Valve	Low air pressure switch did not send signal or no alarm <b>(12.4.3.2.10)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Preaction and deluge valve	Low temperature switch did not send signal or and alarm <b>(12.4.3.2.11)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Preaction valve	Automatic air maintenance device did not pass test <b>(12.4.3.2.12)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Dry pipe valve	priming water level not correct <b>(12.4.4.2.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Dry pipe valve	Annual trip test results were not comparable to previous tests <b>(12.4.4.2.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Dry pipe valve	no full flow trip test done after 3 years <b>(12.4.4.2.2.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Quick opening device	Quick opening device did not pass test <b>(12.4.4.2.4.)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Dry pipe valve	Low air pressure switch did not send signal or no alarm <b>(12.4.4.2.6)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Dry pipe valve	Low temperature switch did not send signal or no alarm <b>(12.4.4.2.7)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Dry pipe valve	Automatic air maintenance device did not pass test <b>(12.4.4.2.8)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sprinkler pressure reducing control valves	No full flow test done after 5 years or test results not comparable to previous results <b>(12.5.1.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Hose connection pressure reducing valves	No full flow test done after 5 years or test results not comparable to previous results <b>(12.5.4.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Hose rack assembly pressure reducing valve	No full flow test done after 5 years or test results not comparable to previous results <b>(12.5.4.2)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Hose valves(Class I & Class III Standpipe system)	Annual test revealed valve leaking or difficult to operate <b>(12.5.5.2.1.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Hose valves(Class II Standpipe system)	Test revealed valve leaking or difficult to operate <b>(12.5.5.2.2, 12.5.5.2.2.1)</b>	<b>Orange</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Hose valves(Class II Standpipe system)	No test after 3 years <b>(12.5.5.2.2, 12.5.5.2.2.1)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Backflow prevention assemblies	Did not pass forward flow test <b>(12.6.2.1)</b>	<b>Red</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Backflow prevention assemblies	No forward flow test done after one year <b>(12.6.2.1)</b>	<b>Yellow</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	