

**Water-Based Fire Protection System Inspection Guidelines for Tagging - 2011 NFPA 25
Testing Deficiencies and Maintenance Deficiencies (Revised 12-5-2014)**

Item	Deficiency	NFPA			Action	Reference
SPRINKLER SYSTEMS						NFPA #25
Sprinklers - standard	No test after 50 years, every 10 years thereafter	Red	Noncritical	30 day notice		5.3.1.1.1
standard	Prior to 1920 not replaced	Red	Critical	30 day notice		5.3.1.1.1.2
standard	No test after 75 years, every 5 years thereafter	Red	Noncritical	30 day notice		5.3.1.1.1.5
Solder-type 325° or greater	No test after 5 years, every 5 years thereafter	Red	Noncritical	30 day notice		5.3.1.1.1.4
fast response	No test after 20 years, every 10 years thereafter	Red	Noncritical	30 day notice		5.3.1.1.1.3
dry	No test after 10 years, every 10 years thereafter	Red	Critical	30 day notice		5.3.1.1.1.6
Subject to harsh environments	(Corrosive atmospheres, corrosive water supply, includes freezers and coolers) No test after 5 years, every 5 years thereafter	Red	Noncritical	30 day notice		5.3.1.1.2
Solder type	(Commercial-type cooking eqpt. & ventilating systems) No replacement after one year	Red	Critical	24 hour notice		5.4.1.9
Sprinklers in spray coating areas	Not protected or plastic or paper bags used to protect against overspray residue, with deposits or residue accumulation	Red	Impairment	24 hour notice		5.4.1.7.1 5.4.1.7.2
Gauges	Not replaced or calibrated in 5 years, not accurate within 3% of scale	Red	Noncritical	30 day notice		5.3.2
Alarm devices	Water motor and gong not functioning	Red	Critical	30 day notice		5.3.3
Alarm devices	Pressure switch or vane type switch not functioning or no alarm	Red	Critical	24 hour notice		5.3.3
Antifreeze systems	Specific gravity of antifreeze not correct	Red	Critical	30 day notice		5.3.4
Main drain	10% or more drop in full flow pressure or slow return to normal static pressure.	Red	Impairment	24 hour notice		13.2.5.2
Obstruction inspection	No inspection of main and branch line after 5 years or inspection revealed presence of MIC, zebra mussels, rust and scale	Red	Critical	30 day notice		14.2.1
VALVE, COMPONENTS & TRIM						NFPA #25
Control valve	Valve will not operate through its full range	Red	Critical	24 hour notice		13.3.3.1
Control valve	No spring or torsion felt in rod when opening post indicator valve	Red	Impairment	24 hour notice		13.3.3.2
Supervisory switches (Valve not locked or sealed)	No signal from two revolutions of the hand wheel from normal position or when stem has moved one-fifth of the distance from normal position, signal restored in position other than normal	Red	Critical	24 hour notice		13.3.3.5.2 13.3.3.5.3
Supervisory switches (Valve locked or sealed)	No signal from two revolutions of the hand wheel from normal position or when stem has moved one-fifth of the distance from normal position, signal restored in position other than normal	Red	Noncritical	30 day notice		13.3.3.5.2 13.3.3.5.3
Preaction valve and deluge valve	Priming water level not correct	Red	Critical	30 day notice		13.4.3.2.1
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	Red	Impairment	24 hour notice		13.4.3.2.2.3 13.4.3.2.7.3 13.4.3.2.9
Preaction valve and deluge valve	Low air pressure switch did not send signal or no alarm	Red	Noncritical	30 day notice		13.4.3.2.13
Preaction valve and deluge valve	Low temperature switch did not send signal or no alarm	Red	Noncritical	30 day notice		12.4.3.2.14
Preaction valve and deluge valve	Automatic air maintenance device did not pass test	Red	Noncritical	30 day notice		13.4.3.2.15
Preaction valve and deluge valve	No full flow trip test done after 3 years or test results not comparable to previous results or within water delivery table limits if applicable	Red	Noncritical	30 day notice		13.4.3.2.2.4 13.4.3.2.3 13.4.3.2.7.3
Preaction valve	No air leakage test after 3 years	Red	Noncritical	30 day notice		13.4.3.2.6
Preaction valve	Three year air leakage test failed	Red	Critical	30 day notice		13.4.3.2.6
Dry pipe valve/Quick opening device	Priming water level not correct	Red	Critical	30 day notice		13.4.4.2.1
Dry pipe valve	Annual trip test results were not comparable to previous tests	Red	Noncritical	30 day notice		13.4.4.2.2
Dry pipe valve	No full flow trip test done after 3 years or test results not comparable to previous tests	Red	Noncritical	30 day notice		13.4.4.2.2.2
Dry pipe valve	Quick opening device did not pass test	Red	Critical	24 hour notice		13.4.4.2.4
Dry pipe valve	Low air pressure switch did not send signal or no alarm	Red	Noncritical	30 day notice		13.4.4.2.6
Dry pipe valve	Low temperature switch did not send signal or no alarm	Red	Noncritical	30 day notice		13.4.4.2.7
Dry pipe valve	Automatic air maintenance device did not pass test	Red	Critical	24 hour notice		13.4.4.2.8
	Trip test tag or card missing	Red		30 day notice		13.4.4.2.5
Dry pipe valve	No air leakage test after 3 years	Red	Noncritical	30 day notice		13.4.4.2.9
Dry pipe valve	Three year air leakage test failed	Red	Critical	30 day notice		13.4.4.2.9
Sprinkler pressure reducing control valves	No full flow test done after 5 years or test results not comparable to previous results	Red	Noncritical	30 day notice		13.4.3.2.3
PRIVATE FIRE SERVICE MAINS						NFPA #25
Underground and exposed piping	No flow test done after 5 years or test results not comparable to previous results	Red	Noncritical	30 day notice		7.3.1
Backflow prevention assemblies	Did not pass forward flow test	Red	Impairment	24 hour notice		13.6.2.1

Item	Deficiency		NFPA	Action	Reference
Backflow prevention assemblies	No forward flow test done after one year	Red	Noncritical	30 day notice	13.6.2.1
Backflow prevention assemblies	Did not pass backflow performance test	Red	Noncritical	30 day notice	13.6.2.1
Dry barrel & wall hydrant	Hydrant did not flow clear or did not drain within 60 minutes	Red	Noncritical	30 day notice	7.3.2.1 7.3.2.4
Monitor nozzles	Did not flow acceptable amount of water or did not operate throughout their full range	Red	Critical	24 hour notice	7.3.3.1 7.3.3.2
STANDPIPE & HOSE SYSTEM					NFPA #25
Master pressure reducing valve	Partial flow test not performed or test failed	Red		30 day notice	13.5.4.2
Master pressure reducing valve	Full flow test not performed or test results not comparable to previous test results	Red		30 day notice	13.5.4.3
Hose connection pressure reducing valves	No full flow test done after 5 years or test results not comparable to previous results	Red	Noncritical	30 day notice	13.5.3.2
Hose rack assembly pressure reducing valve	No full flow test done after 5 years or test results not comparable to previous results	Red	Noncritical	30 day notice	13.5.3.2
Hose valves (Class I and Class III standpipe system)	Annual test revealed valve leaking or difficult to operate	Red	Critical	30 day notice	13.5.6.2.1 13.5.6.2.1.1
Hose valves (Class II standpipe system)	Test revealed valve leaking or difficult to operate	Red	Critical	30 day notice	13.5.6.2.2
Hose valves (Class II standpipe system)	No test after 3 years	Red	Noncritical	30 day notice	13.5.6.2.2
Hose	No test after initial 5 years or 3 years thereafter or did not pass service test	Red		30 day notice	6.2.1 NFPA #1962
Hose nozzle	Waterway obstructed, tip damaged, controls and adjustments do not operate as designed, shutoff valve if provided does not operate as designed or close off flow completely	Red		30 day notice	6.2.1 NFPA #1962
Hose storage device	Rack will not swing out of cabinet at least 90°	Red	Noncritical	30 day notice	6.2.1
Main drain	10% or more drop in full flow pressure or slow return to normal static pressure.	Red	Critical	24 hour notice	6.3.1.5 13..2.5.2
Standpipe system	Test results did not provide design pressure at required flow	Red	Critical	24 hour notice	6.3.1.1
Standpipe system	No flow test done after 5 years	Red	Noncritical	30 day notice	6.3.1.1
Manual standpipe system and semi-automatic dry standpipe systems including FDC piping	Hydrostatic test showed leaks	Red	Critical	24 hour notice	6.3.2.1
	No hydrostatic test done after 5 years	Red	Noncritical	30 day notice	6.3.2.1
Gauges	Not replaced or calibrated in 5 years, not accurate within 3% of scale	Red	Noncritical	30 day notice	6.3.4
Obstruction inspection	No inspection of main and branch line after 5 years or inspection revealed presence of MIC, zebra mussels, rust and scale	Red	Critical	30 day notice	14.2.1