

Water-Based Fire Protection System Inspection Guidelines for Tagging - 2011 NFPA 25					
Testing Deficiencies and Maintenance Deficiencies (Revised 5-25-2016)					
Item	Deficiency		NFPA	Action	Reference
SPRINKLER SYSTEMS					NFPA #25
Sprinklers - standard	No test after 50 years, every 10 years thereafter	Yellow	Noncritical	30 day notice	5.3.1.1.1
standard	Prior to 1920 not replaced	Red	Critical	24 hour notice	5.3.1.1.1.2
standard	No test after 75 years, every 5 years thereafter	Yellow	Noncritical	30 day notice	5.3.1.1.1.5
Solder-type 325° or greater	No test after 5 years, every 5 years thereafter	Yellow	Noncritical	30 day notice	5.3.1.1.1.4
fast response	No test after 20 years, every 10 years thereafter	Yellow	Noncritical	30 day notice	5.3.1.1.1.3
dry	No test after 10 years, every 10 years thereafter	Red	Critical	24 hour 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	Yellow	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	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	Yellow	Noncritical	30 day notice	5.3.2
Alarm devices	Water motor and gong not functioning	Red	Critical	24 hour 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	24 hour 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	24 hour 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	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	Yellow	Noncritical	30 day notice	13.3.3.5.2 13.3.3.5.3
Precision valve and deluge valve	Priming water level not correct	Red	Critical	24 hour 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
Precision valve and deluge valve	Low air pressure switch not tested quarterly	Yellow	Noncritical	30 day notice	13.4.3.2.13
Precision valve and deluge valve	Low temperature switch did not send signal or no alarm	Yellow	Noncritical	30 day notice	12.4.3.2.14
Precision valve and deluge valve	Automatic air maintenance device did not pass test	Yellow	Noncritical	30 day notice	13.4.3.2.15
Precision 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	Yellow	Noncritical	30 day notice	13.4.3.2.2.4 13.4.3.2.3 13.4.3.2.7.3
Dry pipe valve/Quick opening device	Priming water level not correct	Red	Critical	24 hour notice	13.4.4.2.1
Dry pipe valve	Annual trip test results were not comparable to previous tests	Yellow	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	Yellow	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 not tested	Yellow	Noncritical	30 day notice	13.4.4.2.6
Dry pipe valve	Low temperature switch did not send signal or no alarm	Yellow	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
Dry pipe valve	No air leakage test after 3 years	Yellow	Noncritical	30 day notice	13.4.4.2.9
Dry pipe valve	Three year air leakage test failed	Red	Critical	24 hour 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	Yellow	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	Yellow	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
Backflow prevention assemblies	No forward flow test done after one year	Yellow	Noncritical	30 day notice	13.6.2.1
Dry barrel & wall hydrant	Hydrant did not flow clear or did not drain within 60 minutes	Yellow	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
Hose connection pressure reducing valves	No full flow test done after 5 years or test results not comparable to previous results	Yellow	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	Yellow	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	24 hour 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	24 hour notice	13.5.6.2.2
Hose valves (Class II standpipe system)	No test after 3 years	Yellow	Noncritical	30 day notice	13.5.6.2.2
Hose storage device	Rack will not swing out of cabinet at least 90°	Yellow	Noncritical	30 day notice	6.2.1
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	Yellow	Noncritical	30 day notice	6.3.1.1
Dry standpipe, dry portion or wet and manual standpipe system	No hydrostatic test done after 5 years	Yellow	Noncritical	30 day notice	6.3.2
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
Obstruction inspection	No inspection of main and branch line after 5 years or inspection revealed presence of MIC, zebra mussels, rust and scale	Yellow	Noncritical	30 day notice	14.2.1