PREACTION/DELUGE SPRINKLER SYSTEMS INSPECTION, TESTING, AND MAINTENANCE 2020 Edition

Property Name:	Inspector:				
Property Address:		Contract No.:			
City: State:	Zip code:	Date:			
Property Phone Number:					
Inspection Frequency:					
Daily Weekly Monthly Quarterly Annual Five-Year					
Inspections: Daily					
Preaction and Deluge Valve (Cold Weather/Heating Season Only):					
Enclosure, not equipped with a low temperature alarm, is inspected during cold weather to verify	a minimum temperature of 40°F (4°C):				
- select an option -					
In an anti-second Manufalan					
Inspections: Weekly Backflow:					
	DDA and DDDA differential anning muliafore has				
Isolation valves — open position and locked or supervised: - select an option –	RPA and RPDA — differential-sensing relief valve - select an option –	operating correctly.			
	- select all option -				
Control Valves:					
In the correct (open or closed) position:	Sealed:				
- select an option -	- select an option -				
Accessible:	Post Indicator Valves (PIVs) are provided with correct wrenches:				
- select an option -	- select an option -				
Free from damage or leaks:	Proper signage:				
- select an option -	- select an option -				
Preaction and Deluge Valve:					
Enclosure, where equipped with low temperature alarm, is inspected during cold weather to verify	a minimum temperature of 40°F (4°C):				
- select an option -					
Master Pressure-Regulating Device:					
Downstream pressures are in accordance with design criteria:	psi:				
- select an option -	For				
Supply pressure is in accordance with design criteria: - select an option -	psi:				
Free of damage or leaks:	Trim in good operating condition:				
- select an option -	- select an option -				
Inspections: Monthly					
Gauges are operable and not physically damaged:	Gauges – normal air or nitrogen pressure mainta	ined (not supervised):			
- select an option -	- select an option -				
Gauge on system side of dry valve reads proper ratio of air or nitrogen (not supervised):	psi:				
- select an option -					
Gauge on quick-opening device reads the same as system side dry valve gauge (not	psi:				
supervised):	pot.				
- select an option -					
Control Valves (Locked or Supervised):	_				
In the correct (open or closed) position:	Locked or supervised:				
- select an option -	select an option –				

Accessible:	Post indicator valves (Pivs) are provided with correct wrenches:
– select an option –	select an option –
Free from damage or leaks:	Proper signage:
- select an option -	- select an option -
Preaction/Deluge Valve:	
Free from physical damage or leaks:	Electrical components are in service:
- select an option -	- select an option -
Trim valves are in the correct (open or closed) position:	Valve seat is not leaking:
- select an option -	- select an option -
Inspections: Quarterly	
Gauges – normal air or nitrogen pressure maintained when supervised at a constantly attended location:	psi:
- select an option -	
Gauge on system side of dry valve reads proper ratio of air or nitrogen when supervised at a	psi:
constantly attended location:	pu.
- select an option -	
Gauge on quick-opening device reads the same as system side dry valve gauge when	psi:
supervised at a constantly attended location:	
- select an option -	
Gauge on supply side of valve reads normal:	psi:
- select an option -	
Waterflow alarm and supervisory devices are free of damage:	
- select an option -	
Fire Department Connections:	
Visible and accessible:	Coupling/swivels operate correctly:
- select an option -	- select an option -
Plugs/caps are in place: - select an option -	Gaskets are not damaged: - select an option -
Identification signs are in place:	Check valve is not leaking:
- select an option -	- select an option -
Automatic drain valve in place and operating correctly:	Clapper operates correctly:
- select an option -	- select an option -
Interior is clear of obstructions (unless locked):	Visible piping supplying the fire department connection is undamaged:
- select an option -	- select an option -
Pressure-Reducing Valve:	
In the open position and not leaking:	Maintaining downstream pressure:
- select an option -	- select an option -
In good condition, with handwheel installed and unbroken:	
- select an option -	
Control Valves (Electronically Supervised):	
In the correct (open or closed) position:	Electronically supervised:
- select an option -	- select an option -
Accessible:	Post Indicator Valves (PIVs) are provided with correct wrenches:
- select an option -	- select an option -
Free from damage or leaks:	Proper signage:
- select an option -	- select an option -
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Inspections: Annual	
Hydraulic design information sign is securely attached to riser and legible:	
- select an option -	
Sprinklers (visible):	
No damage or leaks:	Free of corrosion, foreign material, or paint:
- select an option -	- select an option -
process of the second s	transfer to the second of the

Installed in proper orientation:	Fluid in glass bulbs:					
- select an option -	- select an option -					
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Spare sprinklers — proper number and type, including installation wrench: - select an option –	Loading – sprinklers are free of dust: - select an option –					
No paint or coating other than that applied by the manufacturer:	Escutcheons/cover plates are present and installed correctly:					
- select an option -	- select an option -					
Minimum clearance between sprinklers and storage:						
- select an option -						
Hangers/Seismic Bracing:						
Not damaged or loose:						
- select an option -						
Pipes and Fittings:						
In good condition and no external corrosion:	No leaks or mechanical damage:					
- select an option -	- select an option -					
Correct alignment and no external loads:						
- select an option -						
Fire Department Connections:						
Interior of connection with locked plugs or caps is free of obstructions:						
- select an option -						
Preaction/Deluge Valve:						
Interior inspection following trip test:	Detection device condition inspection:					
- select an option -	- select an option -					
Building:						
Prior to onset of freezing weather, all openings are closed and water-filled pipe is not exposed to freezing weather.	eazing temperatures					
- select an option -	temperatures.					
,	Laurteman alaum in fran af whysical damages					
Heat trace is per manufacturer's instructions: - select an option - - select an option - - select an option -						
ocitot un option	Select un option					
Inspections: Five Years						
Obstruction inspection — no foreign or obstructing material is found:	Check valve – internal moves freely and in good	condition:				
- select an option -						
nternal inspection of preaction/deluge valve strainers, filters, restricted orifices, and diaphragm chambers:						
- select an option -	attibers.					
Internal inspection of valves that can be reset without removal of faceplate:	Internal inspection of backflow:					
- select an option -	- select an option -					
Test: Quarterly						
	Detection system low air pressure supervisory de	doo:				
Alarm devices — water motor gong: - select an option –	- select an option -					
Main drain test, if the sole supply is through a backflow preventer or pressure-reducing valve: - select an option -	Static psi:	Residual psi:				
- select an option -						
Do results differ by more than 10% from previous test?	Priming water – test level:					
- select an option -	– select an option –					
Low air alarm – test per manufacturer's instructions:						
- select an option -						
Master Pressure-Regulating Device:						
Partial flow test performed to exercise valve:						
- select an option -						
Test: Semiannual						
Valve supervisory switch(es) function:	Alarm devices — inspector's test or bypass opene	d and observed waterflow:				
- select an option -	- select an option -					

Test: Annual

Valve supervisory switch(es) function:			Low temperature alarm (if installed) at the beginning of heating season:			
- select an option -			- select an option -			
All control valves operated through full range of m	otion and return	ned to normal position:	Pressure reducing valve partial flow test:			
– select an option –			- select an option -			
Automatic air maintenance device functional:			Valve status test performed:			
- select an option -			- select an option -			
Backflow preventer — forward flow test at a minim	um flau rata af	the avetem demand:				
- select an option -	uni now rate or	the system demand.				
Main Drain Test:			5 1: 1''' 1 11 11 11 11 11 11 11 11 11 11 11			
Static psi:	Residual psi:		Do results differ by more than 10% from previous test?			
			- select an option -			
Full Flow Trip Test (Deluge Valve):						
System						
System #		Unobstructed discharge from all	nozzles: Pressure reading at deluge valve (psi):			
		- select -				
Compare if pressure readings to hydraulic design	n/water supply					
meets requirements:		Manual release functions correct	tly:	Valve status test performed:		
- select -		- select -		- select -		
Air maintenance device functions correctly (if pro	ovided):	Pressure reading at most remote	e nozzle or sprinkler:	psi:		
- select -		- select -				
System #	Preaction valve — trip test with partially open control valve: — select —		Water pressure (psi):			
Air pressure (psi):		Tripping air pressure (psi):		Trip time (sec):		
	FF 3 - F		Frankling (1997)			
Water delivery time (min):	Results compared to previous results:		Preaction system tested for air leakage:			
		- select -		- select -		
Test: Five Years:						
Gauges tested or replaced:			Sprinkler pressure-reducing val	ve – flow test and comparable to previous results:		
- select an option -			- select an option -			
Fire Department Connections:						
Piping from fire department connection to fire dep	artment connect	tion check valve has been hydrost	tatically tested at 150 psi (10 ba	r) for at least 2 hours:		
- select an option -						
Routine Maintenance						
Sprinklers/pilot sprinklers tested or replaced per ap	propriate testin	g schedule:	OS&Y — stems lubricated annually:			
– select an option –			- select an option -			
Leaks causing drops in supervisory air pressure or	electrical malfu	nctions causing alarms	Interior of valve cleaned after trip test and internal inspection:			
fixed:			- select an option -			
- select an option -						
Operate axillary drains after system operation and	before freezing	conditions:				
- select an option -						
Comments:						
			Date:			

Contractor Name: License/Certification No.:			tion No.:	Contractor Add	Contractor Address:					

This fo	orm covers	a 6-month period.								
Year:	Year: System:									
]
Locati	Location:									
]
General 1. If valves are sealed, note "yes" in this block. If any are not sealed, reseal and note "resealed" in this block. 2. Gauges for dry, preaction, and deluge systems must be inspected for normal air and water pressures. 3–6. Record pressure readings in psi (bar). A loss of more than 10% should be investigated. 7. Record any notes about the system that the inspector believes to be significant. Place a number in the box and corresponding note in space provided below.										
Date	Inspector	Valves Sealed (1)	Gauges (2)	Alarm Valve OK (3)	Dry Pipe Air Pres. (4)	Dry Pipe Water Pres. (4)	Preaction Air Pres. (5)	Preaction Water Pres. (5)	Deluge Water Pres. (6)	Notes (7)

Notes:					

Inspection performed in accordance with NFPA 25 Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems, 2020 edition.