

# Report of Inspection/Test

Annual Sprinkler

10/05/2018

**Property**

Portland Fire Museum

157 Spring Street  
Portland, ME 04101

**DEAN & ALLYN, INC.**

**FIRE PROTECTION • SPECIAL HAZARD**

116 LEWISTON ROAD, GRAY, ME 04039-7524  
207-657-5646 • 1-888-775-5646

**Conducted by:** Barry Prescott #135

**Inspection Ref:** 200000015362

**Print Date:** 2/4/2019

*Equipment Summary*

Description	Site	Inspected		Unable to Inspect		Serviced Repaired		Failed	
	Qty	Qty	%	Qty	%	Qty	%	Qty	%
<b>Sprinkler Flow Test</b>									
Main drain	1	1	100.0%	0	0.0%	0	0.0%	0	0.0%
<b>Sprinkler Valve</b>									
Aux Drain	1	1	100.0%	0	0.0%	0	0.0%	0	0.0%
Butterfly	1	1	100.0%	0	0.0%	0	0.0%	0	0.0%
OS&Y	1	1	100.0%	0	0.0%	0	0.0%	0	0.0%
Praction	1	1	100.0%	0	0.0%	0	0.0%	0	0.0%

**Water Based System Inspection Praction System(Inspection)**

Yes	Gauges on wet pipe system in good condition and showing normal water supply pressure?	Yes	Alarm devices free from physical damage and operating properly?
Yes	Hydraulic nameplate, if provided, securely attached to riser and legible?	Yes	Valve supervisory switches indicate movement?

**Fire Department Connection Praction System(Inspection)**

Yes	Visible and accessible?	Yes	Couplings and swivels not damaged and rotate smoothly?
Yes	Plugs or caps in place and undamaged?	Yes	Gaskets in place and in good condition?
Yes	Identification sign(s) in place?	Yes	Check valve is not leaking?
Yes	Automatic drain valve in place and operating properly?	NA	Interior free of obstructions (if caps are not in place) ?
NA	Valve clapper operational over its full range (if caps are not in place) ?		

**Pipe Praction System(Inspection)**

Yes	In good condition ?	Yes	Free of mechanical damage and not leaking ?
Yes	No external corrosion ?	Yes	Properly aligned ?
Yes	No external loads ?	Yes	Visible pipe hangers and seismic braces not damaged or loose ?
No	Was an obstruction investigation conducted and the system flushed ?		

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## Sprinklers Preaction System(Inspection)

Yes	Sprinkler wrench with spare sprinklers?	Yes	Proper number and type of spare sprinklers?
Yes	Free of corrosion?	Yes	Free of obstructions to spray patterns?
Yes	Free of foreign materials including paint?	Yes	Free of physical damage?
Yes	Are all sprinklers in service dated 1920 or later?	Yes	Fast Response sprinklers in service for less than 20 years? If "no" test sample now and every 10 years.
Yes	Standard sprinklers less than 50 years old ? If no test sample now and every 10 years.	Yes	If sprinklers have been replaced, were they proper replacements?
NA	Sprinklers and spray nozzles protecting commercial cooking equipment and ventilating systems replaced except for bulb-type which show no signs of grease buildup?		

## Preaction Valve Preaction System(Valve)

Yes	Enclosures around dry-pipe, preaction or deluge valves maintaining a minimum of 40 deg F?	Yes	Gauges on dry, preaction and deluge systems in good condition and showing normal air and water pressure ?
Yes	Free from physical damage ?	Yes	Trim valves in appropriate (open or closed) position ?
Yes	No leakage from intermediate chamber ?	Yes	Interior of dry pipe, preaction and deluge valves passed internal inspection (required every 5th year if resettable without opening) ?
Yes	Priming water level correct ?	Yes	Low air pressure signal passed test ?
Yes	Quick opening devices passed test ?	Yes	Low temperature alarms in dry pipe, preaction and deluge valve enclosures passed test ?
Yes	Automatic air maintenance devices on dry pipe and preaction systems passed test ?	Yes	Interior of dry pipe, preaction and deluge valves cleaned ?

## Preaction Valve Trip Test Preaction System(Valve)

Tripped in 2 seconds with 1 smoke detector.

Yes	Water discharge from all nozzles unimpeded ?		Pressure reading at hydraulically most remote nozzle
	Residual pressure at the valve	Yes	Comparable to previous tests ?
Yes	Was flow observed ?	Yes	Manual activation devices passed test ?
Yes	Automatic air pressure maintenance devices passed test ?		

## Flow Test

System	Connection Flowed	Outlet Size	Pressure (psi)			Results comparable to prior test
			Static	Resid	Static	
Preaction System						
4" Viking F-1 Preaction System	Main drain	2	60	60	60	Yes

## Inspector's Test Valve

System/Location	Alarm Reported	Time to Alarm	Smooth Bore Orifice	Signage	Easily Accessible
Preaction System					
	Yes		Yes	Yes	Yes

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## Auxiliary Drains

System / Location	Drain	Aux Drain Drained ?	Water Flow Observed ?
Preaction System			
5 Locations	Valve-Plug	Yes	No

## Valve Inspection List

Location	Valve Type	Size	Secured	Inspection				Maint.			Test	
				Leakage	Open	Accessible	Signs	Exercised	# of Turns	Lubricated	Tamper	Alarm

## Preaction System

Before Backflow	OS&Y	6"	None	Ok	Ok	Ok	Ok	Ok		Ok	Ok	Ok
<b>Not supervised.</b>												
System Control	Butterfly	4"	None	Ok	Ok	Ok	Ok	Ok		Ok	Ok	Ok
<b>Not supervised.</b>												
Ok - Passes Inspection S - Serviced on site X - Requires Service NA - Not Applicable												

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### Deficiency / Recommendations Summary

These items were deficient and do not meet the requirements of the applicable code at the time of the inspection. Items marked *Recommendation* are not required by the applicable code but are opportunities to improve the Life Safety of the property.

#### Control Valve Before Backflow OS&Y 6" Praction System Before Backflow

Valve OS&Y Before Backflow

**None** Secured ?

Not supervised.

NFPA-25-2002 12.3.2.2(1) *The valve inspection shall verify that the valves are in the following condition: (a) In the normal open or closed position*

#### Control Valve System Control Butterfly 4" Praction System System Control

Valve Butterfly System Control

**None** Secured ?

Not supervised.

NFPA-25-2002 12.3.2.2(1) *The valve inspection shall verify that the valves are in the following condition: (a) In the normal open or closed position*

#### Inspector's Recommendations Praction System

Recommendations

The inspector recommends the following system changes/improvements, however, these suggestions are not the result of an engineering survey.

Many areas have no detection devices and a fire in these areas would not activate the system.

Low air pressure alarm is not currently wired to anything.

No velocity drip is installed on the system.

Release solenoid wiring does not appear to be supervised at the solenoid.