

Report of Inspection/Test

Annual Sprinkler

June 11, 2020

Property

USPS - Scarborough

79 Postal Service Way
Scarborough, ME 04074

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: 200000019882

Print Date: 7/26/2020

Water Based 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

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

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 ?		

Sprinklers

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.	NA	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?		

Dry Pipe Valve Inspection 4" Dry - Header #3 without QOD North Sprinkler Bank - Zone 16

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?
NA	Quick opening devices passed test?	NA	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?	NA	Air leaks in dry pipe system resulting in air pressure loss more than 10 psi/week repaired?
Yes	Dry pipe systems being maintained in dry condition?	Yes	Interior of dry pipe, preaction and deluge valves cleaned?
Yes	Has a full flow trip test been performed for the dry pipe valve as required every 3 years?		

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DEAN & ALLYN**FIRE PROTECTION • SPECIALTIES**

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Flow Test

System	Connection Flowed	Outlet Size	Pressure (psi)			Results comparable to prior test
			Static	Resid	Static	
East Sprinkler Bank - Zone #7						
6" Wet	Main drain	2	80	NF	80	Yes
No main drain test possible on zone 5 through 8 because of bark mulch and water flowing back into the building.						
East Sprinkler Bank - Zone #8						
6" Wet	Main drain	2	80	NF	90	Yes
No main drain test possible on zone 5 through 8 because of bark mulch and water flowing back into the building..						
Outside Valve Room - Zone #3						
4" Wet	Main drain	2	85	80	85	Yes
Outside Valve Room - Zone #4						
4" Wet	Main drain	2	85	80	85	Yes
Outside Valve Room - Break Canopy - Zone 20						
2-1/2" Dry - Header #2 - Break Canopy	Main Drain	2	85	80	85	Yes
Old PAV1 Header - Zone 17						
2-1/2" Dry - Entry Canopy	Main Drain	1-1/4	80	75	80	Yes
PAV2 - Old Computer Mail Forwarding Area						
3" Flooding valve	Main drain	1-1/2	85	80	85	Yes

Report of Inspection/Test**Annual Sprinkler****June 11, 2020****Property:** USPS - Scarborough**DEAN & ALLYN****FIRE PROTECTION • SPECIALTIES****Inspection Ref:** 200000019882*Inspector's Test Valve*

System/Location	Alarm Reported	Time to Alarm	Smooth Bore Orifice	Signage	Easily Accessible
North Sprinkler Bank - Zone 1					
4" Wet - Header #3	Yes	<60	Yes	Yes	Yes
North Sprinkler Bank - Zone 15					
4" Wet - Header #3 Northwest Mezz	Yes	<60	Yes	Yes	Yes
North Sprinkler Bank - Zone 2					
6" Wet - Header #3	Yes	<60	Yes	Yes	Yes
North Sprinkler Bank - Zone 16					
4" Dry - Header #3	Yes	26	Yes	Yes	Yes
West Sprinkler Bank - Zone 12					
6" Wet - Header #4	Yes	<60	Yes	Yes	Yes
West Sprinkler Bank - Zone #13					
6" Wet - Header #4	Yes	<60	Yes	Yes	Yes
West Sprinkler Bank - DPV1 West Canopy - Zone 19					
4" Dry - Header #4	Yes	29	Yes	Yes	Yes
South Sprinkler Bank - Zone #9					
6" Wet - Header #5	Yes	<60	Yes	Yes	Yes
South Sprinkler Bank - Zone #10					
6" Wet - Header #5	Yes	<60	Yes	Yes	Yes
South Sprinkler Bank - Zone #11					
6" Wet - Header #5	Yes	<60	Yes	Yes	Yes
South Sprinkler Bank - Zone #14					
6" Wet - Header #5	Yes	<60	Yes	Yes	Yes
South Sprinkler Bank - DPV2 South Canopy - Zone 18					
4" Dry - Header #5	Yes	25	Yes	Yes	Yes
East Sprinkler Bank - Zone #6					
6" Wet - Header #1	Yes	<60	Yes	Yes	Yes
East Sprinkler Bank - Zone #7					
6" Wet - Header #1	Yes	<60	Yes	Yes	Yes
East Sprinkler Bank - Zone #8					
6" Wet - Header #1	Yes	<60	Yes	Yes	Yes
Outside Valve Room - Zone #3					
4" Wet - Header #2	Yes	<60	Yes	Yes	Yes
Outside Valve Room - Zone #4					
4" Wet - Header #2	Yes	<60	Yes	Yes	Yes
Old PAV1 Header - Zone 17					
2-1/2" Dry - Entry Canopy	Yes	5	Yes	Yes	Yes

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Report of Inspection/Test**Annual Sprinkler****June 11, 2020****Property:** USPS - Scarborough**DEAN & ALLYN****FIRE PROTECTION • SPECIALTIES****Inspection Ref:** 200000019882*Inspector's Test Valve*

System/Location	Alarm Reported	Time to Alarm	Smooth Bore Orifice	Signage	Easily Accessible
East Sprinkler Bank - Zone #5					
6" Wet - Header #1	Yes	<60	Yes	Yes	Yes
PAV2 - Old Computer Mail Forwarding Area					
3" Flooding valve	Yes	8	Yes	Yes	Yes
Outside Valve Room - Break Canopy - Zone 20					
2-1/2" Dry - Header #2 - Break Canopy	Yes		Yes	Yes	Yes

Auxiliary Drains

System / Location	Drain	Aux Drain Drained ?	Water Flow Observed ?
North Sprinkler Bank - Zone 16			
Machine Shop	Drum Drip	Yes	
West Sprinkler Bank - DPV1 West Canopy - Zone 19			
Doors 2&3	Drum Drip	Yes	
exit door 107	Drum Drip	Yes	
office 1079	Drum Drip	Yes	
South Sprinkler Bank - DPV2 South Canopy - Zone 1:			
Doors #33	Drum Drip	No	
1" low point drain is plugged with debris and could not be drained even after considerable debris was removed from the drum drip indicating that this system and possibly all dry systems need to be flushed.			
Door #68	Drum Drip	Yes	
Door #79	Drum Drip	Yes	
Outside Valve Room - Break Canopy - Zone 20			
ITC	Valve-Plug	Yes	
Old PAV1 Header - Zone 17			
2-1/2" Dry - Entry Canopy	Valve-Plug	Yes	
PAV2 - Old Computer Mail Forwarding Area			
3" Flooding valve	Valve-Plug	Yes	

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Valve Inspection List

Location	Valve Type	Size	Secured	Inspection				Maint.			Test	
				Leakage	Open	Accessible	Signs	Exercised	# of Turns	Lubricated	Tamper	Alarm
<i>North Sprinkler Bank - Zone 1</i>												
4" Wet - Header #3	OS&Y	4"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>North Sprinkler Bank - Zone 15</i>												
4" Wet - Header #3 Northwest Mezz	OS&Y	4"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>North Sprinkler Bank - Zone 2</i>												
6" Wet - Header #3	OS&Y	6"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>West Sprinkler Bank - Zone #13</i>												
6" Wet - Header #4	OS&Y	6"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>South Sprinkler Bank - Zone #9</i>												
6" Wet - Header #5	OS&Y	6"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>South Sprinkler Bank - Zone #10</i>												
6" Wet - Header #5	OS&Y	6"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>South Sprinkler Bank - Zone #14</i>												
6" Wet - Header #5	OS&Y	6"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>North Sprinkler Bank - Zone 16</i>												
4" Dry - Header #3	OS&Y	4"	Supervised	Ok	Ok	Ok	Ok	Ok	10	Ok	Ok	Ok
<i>South Sprinkler Bank - DPV2 South Canopy - Zone 18</i>												
4" Dry - Header #5	OS&Y	4"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>West Sprinkler Bank - Zone 12</i>												
6" Wet - Header #4	OS&Y	6"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>East Sprinkler Bank - Zone #6</i>												
6" Wet - Header #1	OS&Y	6"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>West Sprinkler Bank - DPV1 West Canopy</i>												
4" Dry - Header #4	OS&Y	4"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>East Sprinkler Bank - Zone #7</i>												
6" Wet - Header #1	OS&Y	6"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>East Sprinkler Bank - Zone #8</i>												
6" Wet - Header #1	OS&Y	6"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>Outside Valve Room - Zone #3</i>												
4" Wet - Header #2	OS&Y	4"	Supervised	Ok	Ok	Ok	Ok	Ok	12	Ok	Ok	Ok
<i>Outside Valve Room - Zone #4</i>												

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Valve Inspection List

Location	Valve Type	Size	Secured	Inspection				Maint.			Test	
				Leakage	Open	Accessible	Signs	Exercised	# of Turns	Lubricated	Tamper	Alarm
<i>Outside Valve Room - Zone #4</i>												
4" Wet - Header #2	OS&Y	4"	Supervised	Ok	Ok	Ok	Ok	Ok	10	Ok	Ok	Ok
<i>South Sprinkler Bank - Zone #11</i>												
6" Wet - Header #5	OS&Y	6"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>Outside Valve Room - Break Canopy - Zone 20</i>												
2-1/2" Dry - Header #2 - Break Canopy	OS&Y	2-1/2"	Supervised	Ok	Ok	Ok	Ok	Ok	10	Ok	Ok	Ok
<i>Old PAV1 Header - Zone 17</i>												
2-1/2" Dry - Entry Canopy	OS&Y	2-1/2"	Supervised	Ok	Ok	Ok	Ok	Ok	10	Ok	Ok	Ok
<i>East Sprinkler Bank - Zone #5</i>												
6" Wet - Header #1	OS&Y	6"	Supervised	Ok	Ok	Ok	Ok	Ok	14	Ok	Ok	Ok
<i>PAV2 - Old Computer Mail Forwarding Area</i>												
3" Flooding valve	OS&Y	3"	Supervised	Ok	Ok	Ok	Ok	Ok		Ok	Ok	Ok
3" Flooding valve	OS&Y	3"	Supervised	Ok	Ok	Ok	Ok	Ok		Ok	Ok	Ok

Ok - Passes Inspection S - Serviced on site X - Requires Service NA - Not Applicable

Dry Valve Trip Test - North Sprinkler Bank - Zone 16

Dry Valve	Size: 4"	Year:	Q. O. D.	No QOD	Year:	
Make	Model	Serial no.	Make	Model	Serial no.	
Tyco	DPV-1					
	Time to Trip thru test pipe	Water Pressure	Air Pressure	Trip point air pressure	Time water reached test outlet	Alarm Operated
No Q.O.D.	26 sec	80 ^{psi}	36 ^{psi}	13 ^{psi}	- sec	Yes

Comparable to previous tests ? Yes

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Dry Valve	Size: 2-1/2"	Year: 06/30/15	Q. O. D.	No QOD	Year:	
Make	Model	Serial no.	Make	Model	Serial no.	
Tyco						
	Time to Trip thru test pipe	Water Pressure	Air Pressure	Trip point air pressure	Time water reached test outlet	Alarm Operated
No Q.O.D.	5 sec	80 ^{psi}	32 ^{psi}	14 ^{psi}	- sec	Yes

Comparable to previous tests ? Yes

Dry Valve Trip Test - Outside Valve Room - Break Canopy - Zone 20

Dry Valve	Size: 2-1/2"	Year: 2015	Q. O. D.	No QOD	Year:	
Make	Model	Serial no.	Make	Model	Serial no.	
Tyco	DPV-1					
	Time to Trip thru test pipe	Water Pressure	Air Pressure	Trip point air pressure	Time water reached test outlet	Alarm Operated
No Q.O.D.	8 sec	85 ^{psi}	33 ^{psi}	14 ^{psi}	- sec	Yes

Comparable to previous tests ? Yes

Dry Valve Trip Test - South Sprinkler Bank - DPV2 South Canopy - Zone 18

Dry Valve	Size: 4"	Year:	Q. O. D.	No QOD	Year:	
Make	Model	Serial no.	Make	Model	Serial no.	
Tyco	DPV-1					
	Time to Trip thru test pipe	Water Pressure	Air Pressure	Trip point air pressure	Time water reached test outlet	Alarm Operated
No Q.O.D.	25 sec	80 ^{psi}	40 ^{psi}	14 ^{psi}	- sec	Yes

Comparable to previous tests ? Yes

Dry Valve Trip Test - West Sprinkler Bank - DPV1 West Canopy - Zone 19

Dry Valve	Size:	Year: 2006	Q. O. D.	No QOD	Year:	
Make	Model	Serial no.	Make	Model	Serial no.	
Tyco	DPV-1					
	Time to Trip thru test pipe	Water Pressure	Air Pressure	Trip point air pressure	Time water reached test outlet	Alarm Operated
No Q.O.D.	29 sec	80 ^{psi}	37 ^{psi}	14 ^{psi}	- sec	Yes

Comparable to previous tests ? Yes

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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.

Dry System Aux Drain 4" Dry - Header #5 - Doors #33 South Sprinkler Bank - DPV2 South Canopy - Zone 18

No Aux Drain drained ?

1" low point drain is plugged with debris and could not be drained even after considerable debris was removed from the drum drip indicating that this system and possibly all dry systems need to be flushed.

Flow Test 6" Wet East Sprinkler Bank - Zone #5

NF Residual pressure (psi)

No main drain test possible on zone 5 through 8 because of bark mulch and water flowing back into the building.

NFPA-25-2002 12.2.6 A main drain test shall be conducted annually at each water-based fire protection system riser to determine whether there has been a change in the condition of the water supply piping and control valves.

Flow Test 6" Wet East Sprinkler Bank - Zone #6

NF Residual pressure (psi)

No main drain test possible on zone 5 through 8 because of bark mulch and water flowing back into the building.

NFPA-25-2002 12.2.6 A main drain test shall be conducted annually at each water-based fire protection system riser to determine whether there has been a change in the condition of the water supply piping and control valves.

Flow Test 6" Wet East Sprinkler Bank - Zone #7

NF Residual pressure (psi)

No main drain test possible on zone 5 through 8 because of bark mulch and water flowing back into the building.

NFPA-25-2002 12.2.6 A main drain test shall be conducted annually at each water-based fire protection system riser to determine whether there has been a change in the condition of the water supply piping and control valves.

Flow Test 6" Wet East Sprinkler Bank - Zone #8

NF Residual pressure (psi)

No main drain test possible on zone 5 through 8 because of bark mulch and water flowing back into the building..

NFPA-25-2002 12.2.6 A main drain test shall be conducted annually at each water-based fire protection system riser to determine whether there has been a change in the condition of the water supply piping and control valves.

Inspector's Suggestions

In addition to the problems noted in this report the inspector suggests the following system changes/improvements, however, these suggestions are not the result of an engineering survey.

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No main drain test possible on zones 5 through 8 because of bark mulch and water flowing back into the building.

Air compressor for front canopy dry system is quite noisy and may fail soon.

Hose locks have been removed from the fire department storz connections. This could lead to a hose coming unattached during a fire situation.

The 1" low point drain at door 33 plugged with debris and could not be drained even after considerable debris was removed from the drum drip indicating that this system and possibly all dry systems need to be flushed.

Due for 3rd year full flow trip test in 2020.
3rd and 5th years last performed 10/18/2017