

Report of Inspection / Test

Quarterly Sprinkler Inspection



2023-11-22

Property

Bethel Middle School
600 Whittlesey Drive
Bethel CT 06801
Print Date: 2024-01-03

Conducted by: Connor Rieve
FRP.0041524-F1

Rieve Fire Protection
16 Francis J Clarke Circle
Bethel CT 06801
203-790-5060
eric@rievefire.com

Report of Inspection / Test General Questions

OWNER SECTION

Has the AHJ, Dispatch and/or the Alarm Company been notified before inspection?	N/A	Has the AHJ, Dispatch and/or the Alarm Company been notified after the inspection?	N/A
Are the control valves in correct open or closed position at end of inspection?	Pass	Are trim valves in correct open or closed position(if applicable) at end of inspection?	Pass

FIRE DEPARTMENT CONNECTION

Is the FDC easily accessible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Are the FDC swivels and couplings not damaged?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Are the FDC caps and plugs in place and undamaged?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Are the FDC gaskets in place?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the FDC check valve free of leaks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Is the FDC identification sign(s) in place?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Has the interior of the FDC been inspected for obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Is the visible piping supplying the FDC undamaged?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the clapper in place and properly operating?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Is the automatic drain valve in place and properly operating?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

VALVE AREA

Are the gauges on system operable and in good working condition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Are the gauges on system showing normal water supply pressure?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Are all control and trim valves free from damage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		

BACKFLOW PREVENTERS

Is relief port on RPZ device not discharging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
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ALARMS

Are alarms and supervisory devices not damaged?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Water motor gong free from physical damage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
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Water motor gong piping free from leaks?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	Is there no leakage in the retarding chamber or drains?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
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Did the water motor gong activate properly?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA		
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MAINTENANCE

If conditions were found that required flushing, was flushing of the system conducted?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA		
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Report of Inspection / Test for System - Building Wet System with 4 sectional systems

Wet System

Is the alarm valve free from physical damage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Is the trim in correct (open or closed) position?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is Wet System in service?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		

Report of Inspection / Test for Asset - Auditorium Class 2 Standpipe

TESTING

Has master PRV passed partial flow test?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
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MAINTENANCE

If applicable on dry standpipes, have low points drained before freezing weather?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
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HOSE VALVES - Auditorium Class 2 Standpipe

Location	Has PRV	Size	Good Condition	PSI	Exercised	Notes
Stage Left	No					
Stage Right	No					
Rear auditorium left	No					
Rear auditorium right	No					

Report of Inspection / Test for Asset - Electric Fire Pump

Fire Pump Information

Demand(s) of Fire protection systems supplied by pump:	683gpm @ 61psi
Pump Manufacturer	Aurora pumps
Shop/Serial Number	90-65753
Model	481BF
Rated GPM	500

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Rated Pressure	50
Rated 150 Pressure	32.9
Rated RPM	3560
Suction	City
Driver, (electric or diesel engine)	Electric
Engine Manufacturer	U.S. Electric Motors
Engine Shop/Serial Number	E825A/T08T170R050F
Engine Model	D DP
Rated Horsepower	20
Rated Speed	3490
Rated Voltage	480
Rated Amps	48.8
Phase Cycles	3
Service Factor	1.15
Controller Manufacturer	Firetrol
Controller Shop/Serial Number	FTA750-AB20B-TS
Controller Model	Limited Service controller
Jockey Pump Manufacturer	Grundfos
Jockey Pump Model	A96082123P11809004
Jockey Pump Serial Number	0004
Jockey Controller Manufacturer	Aurora Pump
Transfer Switch Manufacturer	Firetrol
Transfer Switch Model	Fire pump automatic transfer switch
Transfer Switch Serial Number	FTA975-BD100B

OWNER SECTION

Is the fire pump in service?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Is the Jockey Pump in service?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
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INSPECTION

Pump house/room proper temperature?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Ventilating louvers free to operate?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Are suction, discharge and bypass valves open?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Is Piping free from leaks?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Suction and system pressure gauges normal?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Suction reservoir, if provided, full?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
Wet pit suction screens are clean and in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Waterflow test valves in closed position?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Controller indicating power on?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	Isolation switch closed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Pump in correct phase?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Oil level in motor sight glass in correct range?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA

TESTING

Electric pump started automatically?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Electric motor driven pump ran for 10 min?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Packing gland showing slight discharge? (Adjust if necessary)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Packing boxes, bearing and pump casing free from overheating?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
For automatic stop controllers, record time pump runs after starting:	N/A	Are all above times and pressures and results acceptable?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
No alarm indicators or other visible abnormalities observed during no-flow test?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Circulation relief valve flowing water?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Automatic Transfer Switch

Connection made to alternate source?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	Transfer switch indicating normal situation?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
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MAIN DRAIN FLOW TESTS

System	Initial Static	Residual	Static	Seconds to Return to Initial Static	Are results comparable to previous test?
Building Wet System with 4 sectional systems	114	90	114	minimal	Yes

INSPECTORS TEST CONNECTION

System	Location	Description	Time to Alarm (seconds)	Reported?	Smooth Orifice	Easily Accessible	Signs?	Pass?
Building Wet System with 4 sectional systems	Fire sprinkler room	1st Floor North Wet System		N/A	N/A	Yes	Yes	N/A
Building Wet System with 4 sectional systems	Fire sprinkler room	2nd Floor South Wet System		N/A	N/A	Yes	Yes	N/A
Building Wet System with 4 sectional systems	Fire sprinkler room	1st Floor South Wet System		N/A	N/A	Yes	Yes	N/A
Building Wet System with 4 sectional systems	Fire sprinkler room	Auditorium system test and drain		N/A	N/A	Yes	Yes	N/A

VALVES

System	Description	Location	Valve Type	Size	Secured	Open	Easily Accessible	Signs	Exercised	Stems Lubricated	Flow Pass	Tamper Pass
	Backflow isolation 1	Fire sprinkler room	OS&Y	8 "	Monitored	Yes	Yes	Yes	N/A	N/A	N/A	N/A
Building Wet System with 4 sectional systems	1st floor south isolation	Fire sprinkler room	Butterfly	3 "	Monitored	Yes	Yes	Yes	N/A	N/A	N/A	N/A
Building Wet System with 4 sectional systems	2nd floor south	Fire sprinkler room	Butterfly	3 "	Monitored	Yes	Yes	Yes	N/A	N/A	N/A	N/A
	Backflow isolation 2	Fire sprinkler room	OS&Y	6 "	Monitored	Yes	Yes	Yes	N/A	N/A	N/A	N/A
	Fire pump suction	Fire sprinkler room	OS&Y	6 "	Monitored	Yes	Yes	Yes	N/A	N/A	N/A	N/A
Building Wet System with 4 sectional systems	1st floor north isolation	Fire sprinkler room	Butterfly	4 "	Monitored	Yes	Yes	Yes	N/A	N/A	N/A	N/A
	Fire pump discharge	Fire sprinkler room	Butterfly	6 "	Monitored	Yes	Yes	Yes	N/A	N/A	N/A	N/A

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VALVES

System	Description	Location	Valve \nType	Size	Secured	Open	Easily\nAcces sible	Signs	Exercised	Stems\nLub ricated	Flow Pass	Tam per Pass
Building Wet System with 4 sectional systems	Auditorium standpipe system isolation	Fire sprinkler room	Butterfly	4 "	Monitored	Yes	Yes	Yes	N/A	N/A	N/A	N/A
	Pump bypass isolation 1	Fire sprinkler room	Butterfly	6 "	Monitored	Yes	Yes	Yes	N/A	N/A	N/A	N/A
	Pump bypass isolation 2	Fire sprinkler room	Butterfly	6 "	Monitored	Yes	Yes	Yes	N/A	N/A	N/A	N/A
	Jockey pump suction	Fire sprinkler room	OS&Y	1 "	Not Secured	Yes	Yes	Yes	N/A	N/A	N/A	N/A
	Jockey pump discharge	Fire sprinkler room	OS&Y	1 "	Not Secured	Yes	Yes	Yes	N/A	N/A	N/A	N/A
	Pump test header normally closed	Fire sprinkler room	Butterfly	4 "	Monitored	Yes	Yes	Yes	N/A	N/A	N/A	N/A

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Deficiencies - General Questions

None

Deficiencies - General Wet System Questions

None

Deficiencies - Building Wet System with 4 sectional systems

None

Deficiencies - Auditorium Class 2 Standpipe

None

Deficiencies - Hose Valves - Auditorium Class 2 Standpipe

None

Deficiencies - Electric Fire Pump

Deficiency #1

Is Piping free from leaks?: No

Status: Non Critical

Notes: Parking gland drain line is actively dripping recommend replacing with pct piping

Deficiency #2

Controller indicating power on?: No

Status: Critical

Notes: Power indicator light is not working

Deficiency #3

Connection made to alternate source?: No

Status: Critical

Notes: Generator is out of service

Deficiencies - Inspectors Test Connection

None

Deficiencies - Valves

None