Fire Suppression Supplemental Form

Location Code: DTHVTOT

Contact: Owner or Manager

Contact Address: 74 ORION STREET
Brunswick, ME 04011

Phone:

Email:

Property Evaluated: MRRA - HANGAR 4 (Assembly)
74 ORION STREET
Brunswick, ME 04011

Description: Fire Suppression Supplement (Foam Suppression System)

Work Order: SV2202090254/1

Company: Eastern Fire

Address: 170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210

Company Phone: 207-784-1507

Company Fax: 207-782-0566

Inspector: Roland Gendreau
not required

Date of Work: 2/17/2022

Deficiency Summary

There are no reported deficiencies for this submission

General Comments

These items are outside the regular scope of the required inspection and are not the result of an engineering review. This information is not intended to be all-inclusive but rather a list of items discovered as a by-product of the required inspection.

There are no general comments for this submission

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

Fire Suppression Supplemental Form

The work covered on this form is (select one): Semi-Annual
Date of Work 2/17/2022

Account Information		
Facility Name: MRRA - HANGAR 4	Property Type: Assembly	Location Code: DTHVTOT
Service Address: 74 ORION STREET, Brunswick, ME, 04011		
Owner: Owner or Manager		Owner's Phone:
Owner's Address: 74 ORION STREET, Brunswick, ME, 04011		

Legend					
AS - Abort Station	BATT - Batteries	CoD - Carbon Monoxide Detector		CM - Control Module	DA - Damper
DD - Duct Detector	DH - Door Holder	EL - Emergency/Exit Light	HD - Heat Detector	HORN - Horns	H/S - Horn-Strobes
LA - Low Air	MM - Monitor Module (Ansul, temp, CO, etc)		MR - Manual Release	Other	PR - Phase Reversal
PS - Pull Station	PWS - Power Supply	SC - Signal/Sounder Control	SD - Smoke Detector	SD-Ion - Ion Smoke Detector	
SD-Photo - Photo Smoke Detector		SPKR - Speakers	STROBE - Strobes	TS - Tamper Switch	WF - Waterflow

Type	Total	Tested	Not Tested	Passed	Failed
MM	9	9	0	9	0
Relay Module	21	21	0	21	0
WF	3	3	0	3	0

Type	Total	Tested	Not Tested	Passed	Failed
PS	4	4	0	4	0
TS	4	4	0	4	0

Zone: Initiating

Zone: Initiating						
Type	**Address**	**Location**	**Notes**	**Last Tested**	**Test Results**	**Comments**
MM	M01	Altronix trouble		2/17/2022	Pass	
MM	M02	Ansul system trouble		2/17/2022	Pass	
Relay Module	M45	Common trouble/facp		2/17/2022	Pass	
Relay Module	M51	Fire pump start		2/17/2022	Pass	

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

Zone: Initiating						
Type	**Address**	**Location**	**Notes**	**Last Tested**	**Test Results**	**Comments**
MM	M29	Fire pump trouble		2/17/2022	Pass	
TS	M15	Foam Tank		2/17/2022	Pass	
Relay Module	M54	Follow fire pump		2/17/2022	Pass	
Relay Module	M50	General alarm/ facp		2/17/2022	Pass	
Relay Module	M44	Hose reel / facp		2/17/2022	Pass	
PS	M26	Hose reel pull		2/17/2022	Pass	
PS	M11	M hangar		2/17/2022	Pass	
Relay Module	M33	M hangar bay 3/facp		2/17/2022	Pass	
MM	M18	M hangar uvir 1		2/17/2022	Pass	
MM	M19	M hangar uvir 2		2/17/2022	Pass	
Relay Module	M42	Middle monitor/ facp		2/17/2022	Pass	
PS	M10	North hangar		2/17/2022	Pass	
Relay Module	M31	North hangar bay 1/facp		2/17/2022	Pass	
Relay Module	M32	North hangar bay 2/facp		2/17/2022	Pass	
Relay Module	M30	North hangar Dr/facp		2/17/2022	Pass	
MM	M16	North hangar uvir 1		2/17/2022	Pass	
MM	M17	North hangar uvir 2		2/17/2022	Pass	
Relay Module	M41	North monitors/ facp		2/17/2022	Pass	
Relay Module	M55	Release form c. Follow fire pump		2/17/2022	Pass	
Relay Module	M52	Release form c to fire pump start		2/17/2022	Pass	
Relay Module	M68	Release m hangar monitor/ sol		2/17/2022	Pass	
Relay Module	M67	Release north hangar monitor/ sol		2/17/2022	Pass	
Relay Module	M69	Release South hangar monitor/ sol		2/17/2022	Pass	
TS	M14	Riser 1-2-3		2/17/2022	Pass	
WF	M13	Riser 1-2-3		2/17/2022	Pass	
TS	M23	Riser 4-5-m-n		2/17/2022	Pass	

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

Zone: Initiating						
Type	**Address**	**Location**	**Notes**	**Last Tested**	**Test Results**	**Comments**
WF	M22	Riser 4-5-m-n		2/17/2022	Pass	
PS	M12	South hangar		2/17/2022	Pass	
Relay Module	M34	South hangar bay 4/facp		2/17/2022	Pass	
Relay Module	M35	South hangar bay 5/ facp		2/17/2022	Pass	
MM	M20	South hangar uvir 1		2/17/2022	Pass	
MM	M21	South hangar uvir 2		2/17/2022	Pass	
Relay Module	M40	South hanger Dr/facp		2/17/2022	Pass	
Relay Module	M43	South monitor/ facp		2/17/2022	Pass	
WF	M25	South riser		2/17/2022	Pass	
Relay Module	M53	Supervisory output		2/17/2022	Pass	
TS	M24	Upper north tamper		2/17/2022	Pass	

Comments

Any deficiencies or other problems found with the devices must be explained using the comment specific for each device. Additional comments can be added here.

Please see the summary section at the top of the form for the comments.

Inspector's Information

Inspected By: Roland Gendreau

Inspector License: not required

I state that the information on this form is correct at the time and place of my inspection, and that all equipment tested at this time was left in operating condition upon completion of this inspection except as noted in the *Comments*.

Signature of Inspector

Date: 2/17/2022

Fire Suppression Inspection and Testing Report

Location Code: DTHVTOT

Contact: Owner or Manager

Contact Address: 74 ORION STREET
Brunswick, ME 04011

Phone:

Email:

Property Evaluated: MRRA - HANGAR 4 (Assembly)
74 ORION STREET
Brunswick, ME 04011

Description: Fire Suppression (Foam Suppression System)

Work Order: SV2202090254/1

Company: Eastern Fire

Address: 170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210

Company Phone: 207-784-1507

Company Fax: 207-782-0566

Inspector: Roland Gendreau
not required

Date of Work: 2/17/2022

Frequency: Semi-Annual

Tag: Na

Deficiency Summary

There are no reported deficiencies for this submission

General Comments

These items are outside the regular scope of the required inspection and are not the result of an engineering review. This information is not intended to be all-inclusive but rather a list of items discovered as a by-product of the required inspection.

There are no general comments for this submission

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

Fire Suppression Inspection and Testing Report

1. Property Information

Tag: Na
Inspection Frequency: Semi-Annual
Property Being Evaluated:
MRRA - HANGAR 4 (Assembly)
Owner:
Owner or Manager
Owner's Phone Number:
Property Address:
74 ORION STREET, Brunswick, ME, 04011
Assembly Description:
Fire Suppression (Foam Suppression System)

2. Owner's Section

Has the Owners section been answered on another inspection report that will be submitted with this inspection report? ☑ Yes ☐ No

3. Monitoring Information

Is there a monitoring entity? ☑ Yes ☐ No
Monitoring organization: Centralarm
Phone: 18006392066
Email: Na
Account number: 196a5018
Phone line 1: Na
Phone line 2: Na
Means of transmission: Radio
Entity to which alarms are retransmitted: Brunswick fd
Phone: Na

4. Notifications Made Prior To Testing

	Contact	Time
Monitoring organization:	Centralarm	7:30am
Building management:	All	7:30am

5. System Information - Panels / Power

5.1 Addressable Panels

Control Unit	Manufacturer: Ansul		Model Number: IQ301		Location: Hangar 4 Sprinkler Room			Software Revision: NA
SLC Loops	Max #: 1	# Utilized: 1	Addresses Available: NA		NAC Circuits	Max #: 4	# Utilized: 0	Style/Class: B
Primary Power	Voltage: 120 VAC	Amps: NA	Overcurrent Protection Type: Disconnect		Amps: NA	Disconnecting Means Location: Electrical Room		
Battery 1	Voltage: 12 VDC	Amps: 35 AH	Mfr Year: 2019	Load Test Battery 1	VDC: 12.57 VDC	Ah: 70%	Charger Voltage: 26.11 VDC	Result of Battery 1 & 2
Battery 2	Voltage: 12 VDC	Amps: 35 AH	Mfr Year: 2019	Load Test Battery 2	VDC: 12.59 VDC	Ah: 70%	Charger Voltage: 26.11 VDC	☑ Pass ☐ Fail ☐ Replaced
Secondary Power	Other Power Present? ☐ Yes ☑ No		Description:					

5.3 Additional Power Supplies

Are there additional power supplies? ☑ Yes ☐ No

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

Power Supplies								
Control Unit	Manufacturer: Altronix		Model Number: AL1024ULX		Location: Beside Foam Facp			Disconnecting Location: NA
Battery 1	Voltage: 12 VDC	Amps: 7 AH	Mfr Year: 2018	Load Test Battery 1	VDC: 12.40 VDC	Ah: 60%	Charger Voltage: 26.08 VDC	Result of Battery 1 & 2
Battery 2	Voltage: 12 VDC	Amps: 7 AH	Mfr Year: 2018	Load Test Battery 2	VDC: 12.40 VDC	Ah: 60%	Charger Voltage: 26.08 VDC	☑ Pass ☐ Fail ☐ Replaced

5.4 Suppression Cylinder Inspection
5.5 Additional Cylinder Info

What is the release type? ☐ Pneumatic ☑ Electric ☐ Other
Select the Electric release type. ☐ IVO ☐ GCA ☑ Solenoid ☐ SQUIB
What is the hazard reserve protection? ☐ Wet Sprinkler ☑ Dry Sprinkler ☐ PreAction ☐ Clean Agent ☐ Gas ☐ Other ☐ None

6. Testing Results

6.1 Control Unit and Related Equipment

Description	Visual Inspection	Functional Test	Results
Control unit	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Lamps / LEDs / LCDs	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Fuses	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Trouble signals	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Disconnect switches	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Ground-fault monitoring	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Supervision	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Annunciators	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Remote power panels	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Other	☐ Yes ☐ No	☐ Yes ☐ No	☐ Pass ☐ Fail ☐ N/A

6.2 Secondary Power

Description	Visual Inspection	Functional Test	Results
Battery condition	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Load voltage	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Discharge test	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Charger test	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Remote panel batteries	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A

6.3 Alarm and Supervisory Alarm Initiating Device

Complete supplementary device test form for all initiating devices.
a. Did all tested initiating devices pass? ☑ Yes ☐ No ☐ N/A

6.4 Notification Appliances

Include Notification Appliances Table on this Report? ☐ Yes ☑ No
Complete supplementary appliance test form for all notification appliances.

6.5 Interface Equipment

Include Interface Equipment on this Report? ☐ Yes ☑ No

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

6.6 Supervising Station Monitoring

Description	Yes/No	Time (sec)	Results
Alarm signal	☑ Yes ☐ No		☑ Pass ☐ Fail ☐ N/A
Alarm restoration	☑ Yes ☐ No		☑ Pass ☐ Fail ☐ N/A
Trouble signal	☑ Yes ☐ No		☑ Pass ☐ Fail ☐ N/A
Trouble restoration	☑ Yes ☐ No		☑ Pass ☐ Fail ☐ N/A
Supervisory signal	☑ Yes ☐ No		☑ Pass ☐ Fail ☐ N/A
Supervisory restoration	☑ Yes ☐ No		☑ Pass ☐ Fail ☐ N/A

6.7 Air Sampling Detection

Is there Air Sampling Detection? ☐ Yes ☑ No

6.8 Device Information

Devices				
Pull Station Manufacturer(s) Notifier	Type ☑ Keyed ☐ Hex Key ☐ Screw	Detector manufacturer(s) Notifier	Notification device manufacturer(s) System sensor	Color ☑ Red ☐ White

7. Notifications That Testing Is Complete

	Contact	Time
Monitoring organization:	Centralarm	NA
Building management:	All	NA

8. System Restored To Normal Operation

Date: 2/17/2022
Time: NA

9. Observations

These items are outside the regular scope of the required inspection and are not the result of an engineering review. This information is not intended to be all-inclusive but rather a list of items discovered as a by-product of the required inspection.

Please see the summary section at the top of the form for the comments.

10. Inspector Information:

Test Verification:
Inspected By: Roland Gendreau
Inspector Signature:
Inspector License: not required
Date of Work: 2/17/2022

Inspection Notes

HOME OFFICE
Auburn, Maine
207-784-1507

EASTERN FIRE
POWERED BY API Group

BRANCH OFFICE
Bangor, Maine
207-942-8014

SYSTEM OWNER RESPONSIBILITIES

RESPONSIBILITY TO BE INFORMED

1. At the end of this report is an excerpt from NFPA 25 – 2014 which defines the responsibilities of the property/system owner or their designated representative. PLEASE BE SURE THAT YOU READ THIS MATERIAL. Eastern Fire is not a designated representative. A designated representative is a party who has full access to, and control over, all aspects of a property including, but not limited to, all locked doors, fire alarm and security panels, fire alarm and security monitoring accounts, etc.
2. The property/system owner or designated representative should purchase a copy of the currently adopted edition of NFPA-25 from the NFPA. As of July 1, 2022 the State of Maine has adopted the 2014 edition of NFPA 25. The currently adopted version can be verified at the State of Maine Fire Marshal's website.

RESPONSIBILITY FOR MAINTENANCE BEFORE AND DURING COLD WEATHER

1. The property/system owner or designated representative must provide adequate heat in all areas of a building protected by a fire sprinkler system to prevent freezing of the water filled sprinkler pipes. Even dry sprinkler systems may have sections of piping intended to always be in properly heated areas, so those pipes may contain water that cannot be removed and will freeze.
2. The property/system owner or designated representative must maintain dry system low point drains before and during months (October through April) when temperatures are below freezing. Due to ever changing environmental conditions dry system low point drains can collect water at all times of the year and need to be checked frequently in the months prior to and during freezing weather seasons.
3. The property/system owner or designated representative are responsible for identifying to Eastern fire the location of all dry system low point drains. Any dry system low point drains that you have made Eastern Fire aware of will be drained 1 time during the year at the time of the annual trip test, which may take place anytime between April and October. The property/system owner or designated representative must also maintain the dry system low points as outlined in #2 above in order to prevent freezing.

RESPONSIBILITY FOR IDENTIFYING EQUIPMENT LOCATIONS

1. The property/system owner or designated representative is responsible for identifying to Eastern Fire the location of all sprinkler system components, including but not limited to those in the following list
    a. Wet, dry, antifreeze, preaction, deluge, etc. system risers
    b. Compressed air or nitrogen systems
    c. Sectional control valves
    d. Wet and dry low point drains

DRY SYSTEM LOW POINT MAINTENANCE SHOULD BE HAPPENING NOW

Wet Fire Sprinkler System Inspection Report

Location Code: DTHVTOT

Contact: Owner or Manager

Contact Address: 74 ORION STREET
Brunswick, ME 04011

Phone:

Email:

Property Evaluated: MRRA - HANGAR 4 (Assembly)
74 ORION STREET
Brunswick, ME 04011

Description: Wet (Valve room)

Work Order: SV2303301144/1

Company: Eastern Fire

Address: 170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210

Company Phone: 207-784-1507

Company Fax: 207-782-0566

Inspector: Scott Davis
Maine FS Inspector - 270

Date of Work: 4/26/2023

Frequency: Quarterly

Tag: NA

Deficiency Summary

Status: Open
a. Appears that the F.D.C. is in satisfactory condition, couplings free, caps or plugs in place and check valves tight?
5 year test is due
NFPA 25-2014 13.7.1
Firedepartmentconnectionsshall be inspected quarterly to verify the following: Couplings or swivels are not damaged and rotate smoothly; Plugs or caps are in place and undamaged; Fire department connections are visible and accessible; Identification signs are in place.

Status: Open
d. Has the five years hydrostatic test been performed on piping from the fire department connection to the fire department check valve
Unknown

General Comments

These items are outside the regular scope of the required inspection and are not the result of an engineering review. This information is not intended to be all-inclusive but rather a list of items discovered as a by-product of the required inspection.

There are no general comments for this submission

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

Wet Fire Sprinkler System Inspection Report

Tag: NA
Inspection Frequency: Quarterly
Property Being Evaluated:
MRRA - HANGAR 4 (Assembly)
Owner:
Owner or Manager
Owner's Phone Number:
Property Address:
74 ORION STREET, Brunswick, ME, 04011

1. General

A. **(To be filled out by the Owner or Owner's Representative)**

Has the Owners section been answered on another inspection report that will be submitted with this inspection report? ☑ Yes ☐ No

B. **(To be answered by the inspector)**

a. Is System in service upon arrival? ☑ Yes ☐ No

b. Was the alarm panel free of alarm and trouble signals upon arrival? (If no, please explain in comments) ☑ Yes ☐ No ☐ N/A

2. Control Valves

a. Do Control Valves appear to be free of damage/leaks? ☑ Yes ☐ No

b. Are all control valves sealed, secured, or supervised in the open position? ☑ Yes ☐ No

Control Valves:	No. of Valves:	Type:	Additional Info:	Easily Accessible?	Signs?	Valve in proper position?	Secured?	Supervision Operational?
System	1	PIV		☑ Yes ☐ No	☑ Yes ☐ No ☐ N/A	☑ Yes ☐ No	☑ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☑ N/A
System	8	OS&Y		☑ Yes ☐ No	☑ Yes ☐ No ☐ N/A	☑ Yes ☐ No	☑ Yes ☐ No ☐ N/A	☑ Yes ☐ No ☐ N/A

3. Water Supplies

a. Water Supply Source ☐ City ☐ Private

☐ Pressure Fire Pump & Tank ☑ Pressure Fire Pump & City ☐ Pressure Fire Pump & Pond

Main Drain	Main Drain Pipe Size	Static Pressure Before	Flow Pressure	Static Pressure After	Main Drain Valve Location	Time to Restore Pressure	Results
Valve room	2	1990	160	190	Riser	0	☑ Pass ☐ Fail ☐ N/A

4. Tanks, Pumps, Fire Dept. Connections

a. Appears that the F.D.C. is in satisfactory condition, couplings free, caps or plugs in place and check valves tight? ☐ Yes ☑ No ☐ N/A

b. Are fire department connections visible, accessible, and identification sign(s) in place? ☑ Yes ☐ No ☐ N/A

c. Do fire pumps, gravity, surface and pressure tanks appear to be in good external condition and properly maintained? ☑ Yes ☐ No ☐ N/A

d. Has the five years hydrostatic test been performed on piping from the fire department connection to the fire department check valve ☐ Yes ☑ No ☐ N/A

e. Date: Unknown

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

5. Wet Systems

System #	Make	Model	Size (inches)	Location/Description
Wet 1	Gem	F470	6	Valve room
Wet 2	Gem	F470	6	Valve room
Wet 3	Gem	F470	6	Valve room
Wet 4	Gem	F5201	6	Valve room
W5	Gem	F5201	6	Valve room
Wet 6	Gem	F5201	6	Valve room
Wet 7	Gem	F5201	6	Valve room
Wet 8	Gem	F5201	6	Valve room

a. Do Valve and Trim appear to be free of damage/leaks and in good condition? ☑ Yes ☐ No ☐ N/A
b. Have all control valves been fully operated and returned to their normal position? ☑ Yes ☐ No ☐ N/A
c. Is the Hydraulic Name Plate, if required, securely attached and legible? ☑ Yes ☐ No ☐ N/A

6. Alarms

a. Did the water motor gong operate during testing? ☐ Yes ☐ No ☑ N/A
b. Did the electric alarms operate during testing? ☑ Yes ☐ No ☐ N/A

System	Time
Wet 1	:30
Wet 2	:30
Wet 3	:30
Wet 4	:30
Wet 5	:30
Wet 6	:30
Wet 7	:30
Wet 8	:30

d. Did the supervisory alarms operate during testing? ☑ Yes ☐ No ☐ N/A
e. Was the alarm panel clear of alarm and trouble signals upon departure? (If no, please explain in comments) ☑ Yes ☐ No ☐ N/A

7. Systems, Sprinklers, and Piping (Inspected at the ground level)

a. Do all gauges appear to be in good condition and read within normal range? ☑ Yes ☐ No ☐ N/A

8. Observations

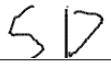
These items are outside the regular scope of the required inspection and are not the result of an engineering review. This information is not intended to be all-inclusive but rather a list of items discovered as a by-product of the required inspection.

Please see the summary section at the top of the form for the comments.

9. Adjustments or Corrections Made:

10. List Changes in the Occupancy Hazard or Fire Protection Equipment, as Advised by the Owner in Section 1A

11. Inspector Information:

Test Verification:
Inspected By: Scott Davis
Inspector Signature: 
Inspector License: Maine FS Inspector - 270
Date of Work: 4/26/2023

Inspection Notes

HOME OFFICE
Auburn, Maine
207-784-1507

BRANCH OFFICE
Bangor, Maine
207-942-8014

Below is an excerpt from NFPA 25 – 2014 which defines the responsibilities of the property owner or their designated representative. Eastern Fire is not a designated representative. A designated representative is a party who has full access to, and control over, all aspects of a property including, but not limited to, all locked doors, fire alarm and security panels, fire alarm and security monitoring accounts, etc.

It is recommended that the property owner or designated representative purchase a copy of the currently adopted edition of NFPA-25 from The NFPA. As of July 1, 2022 the State of Maine has adopted the 2014 edition of NFPA 25. The currently adopted version can be verified at the State of Maine Fire Marshal's website.

4.1 Responsibility of Property Owner or Designated Representative.

4.1.1 * Responsibility for Inspection, Testing, Maintenance, and Impairment.

The property owner or designated representative shall be responsible for properly maintaining a water-based fire protection system.

4.1.1.1 *

Inspection, testing, maintenance, and impairment procedures shall be implemented in accordance with those established in this document and in accordance with the manufacturer's instructions.

4.1.1.2

Inspection, testing, and maintenance shall be performed by qualified personnel.

4.1.1.3 *

Where the property owner or designated representative is not the occupant, the property owner or designated representative shall be permitted to delegate the authority for inspecting, testing, maintenance, and the managing of impairments of the fire protection system to a designated representative.

4.1.1.4

Where a designated representative has received the authority for inspecting, testing, maintenance, and the managing of impairments, the designated representative shall comply with the requirements identified for the property owner or designated representative throughout this standard.

4.1.2 * Freeze Protection.

The property owner or designated representative shall ensure that water-filled piping is maintained at a minimum temperature of 40°F (4°C) unless an approved antifreeze solution is utilized.

4.1.2.1

All areas of the building containing water-filled piping that does not have another means of freeze protection shall be maintained at a minimum temperature of 40°F (4°C).

4.1.2.2

Aboveground water-filled pipes that pass through open areas, cold rooms, passageways, or other areas exposed to temperatures below 40°F (4°C), protected against freezing by insulating coverings, frostproof casings, listed heat tracing systems, or other reliable means, shall be maintained at temperatures between 40°F (4°C) and 120°F (48.9°C).

4.1.2.3

Where other approved means of freeze protection for water-filled piping as described in 4.1.2.2 are utilized, they shall be inspected, tested, and maintained in accordance with this standard.

4.1.3 * Accessibility.

The property owner or designated representative shall provide ready accessibility to components of water-based fire protection systems that require inspection, testing, and maintenance.

4.1.4 Notification of System Shutdown or Testing.

The property owner or designated representative shall notify the authority having jurisdiction, the fire department, if required, and the alarm-receiving facility before testing or shutting down a system or its supply.

4.1.4.1

The notification of system shutdown or test shall include the purpose for the shutdown or test, the system or component involved, the estimated time of shutdown or test, and the expected duration of the shutdown or test.

4.1.4.2

The authority having jurisdiction, the fire department, and the alarm-receiving facility shall be notified when the system, supply, or component is returned to service or when the test is complete.

4.1.5 * Corrections and Repairs.

4.1.5.1 *

The property owner or designated representative shall correct or repair deficiencies or impairments that are found during the inspection, test, and maintenance required by this standard.

4.1.5.2

Corrections and repairs shall be performed by qualified maintenance personnel or a qualified contractor.

4.1.6 * Changes in Occupancy, Use, Process, or Materials.

The property owner or designated representative shall not make changes in the occupancy, the use or process, or the materials used or stored in the building without evaluation of the fire protection systems for their capability to protect the new occupancy, use, or materials.

4.1.6.1

The evaluation required by 4.1.6 shall not be considered part of the normal inspection, testing, and maintenance required by this standard.

4.1.6.2

The evaluation shall consider factors that include, but are not limited to, the following:

- (1) Occupancy changes such as converting office or production space into warehousing
- (2) Process or material changes such as metal stamping to molded plastics
- (3) Building revisions such as relocated walls, added mezzanines, and ceilings added below sprinklers
- (4) Removal of heating systems in spaces with piping subject to freezing

4.1.7 * Addressing Changes in Hazard.

4.1.7.1

Where changes in the occupancy, hazard, water supply, storage commodity, storage arrangement, building modification, or other condition that affects the installation criteria of the system are identified, the property owner or designated representative shall promptly take steps to evaluate the adequacy of the installed system in order to protect the building or hazard in question.

4.1.7.2

Where the evaluation reveals that the installed system is inadequate to protect the building or hazard in question, the property owner or designated representative shall make the required corrections.

4.1.7.3

Corrections shall be approved.

4.1.8 Valve Location.

The location of shutoff valves shall be identified at the system riser or other approved locations.

4.1.9 Information Sign.

4.1.9.1

A permanently marked metal or rigid plastic information sign shall be placed at the system control riser supplying an antifreeze loop, dry system, preaction system, or auxiliary system control valve.

4.1.9.2

Each sign shall be secured with a corrosion-resistant wire, chain, or other approved means and shall indicate at least the following information:

- (1) Location of the area served by the system
- (2) Location of auxiliary drains and low-point drains for dry pipe and preaction systems
- (3) The presence and location of antifreeze or other auxiliary systems
- (4) The presence and location(s) of heat tape

4.1.10 Impairments.

4.1.10.1

Where an impairment to a water-based fire protection system occurs or is identified during inspection, testing, or maintenance activities, the procedures outlined in Chapter 15 shall be followed, including the attachment of a tag to the impaired system.

4.1.10.2

Where a water-based fire protection system is returned to service following an impairment, the system shall be verified to be working properly by means of an appropriate inspection or test as described in the table “Summary of Component Replacement [Action] Requirements” in the applicable chapters of this document.

4.2 Manufacturer's Corrective Action.

Manufacturers shall be permitted to make modifications to their own listed product in the field with listed devices that restore the original performance as intended by the listing, where acceptable to the authority having jurisdiction.

4.3 Records.

4.3.1 *

Records shall be made for all inspections, tests, and maintenance of the system and its components and shall be made available to the authority having jurisdiction upon request.

4.3.1.1 *

Records shall be permitted to be stored and accessed electronically.

4.3.2

Records shall indicate the following:

- (1) The procedure/activity performed (e.g., inspection, test, or maintenance)
- (2) The organization that performed the activity
- (3) The required frequency of the activity
- (4) The results and date of the activity
- (5) The name and contact information of the qualified contractor or owner, including lead person for activity

4.3.3 *

Records shall be maintained by the property owner.

4.3.4

As-built system installation drawings, hydraulic calculations, original acceptance test records, and device manufacturer’s data sheets shall be retained for the life of the system.

4.3.5

Subsequent records shall be retained for a period of 1 year after the next inspection, test, or maintenance of that type required by the standard.

4.4 Water Supply Status.

During inspection, testing, and maintenance, water supplies, including fire pumps, shall remain in service unless under constant attendance by qualified personnel or unless impairment procedures in Chapter 15 are followed.

4.5 * Inspection.

System components shall be inspected at intervals specified in the appropriate chapters.

4.6 Testing.

4.6.1

All components and systems shall be tested to verify that they function as intended.

4.6.2

The frequency of tests shall be in accordance with this standard.

4.6.3

Fire protection system components shall be restored to full operational condition following testing, including reinstallation of plugs and caps for auxiliary drains and test valves.

4.6.4 *

Test results shall be compared with those of the original acceptance test (if available) and with the most recent test results.

4.6.5 *

When a component or subsystem is adjusted, repaired, reconditioned, or replaced, it shall be tested in accordance with the original acceptance test required for that subsystem or the requirements where specified by the standard.

4.6.6 * Automated Testing.

(Reserved)

4.7 * Performance-Based Programs.

As an alternative means of compliance and where approved by the authority having jurisdiction, components and systems shall be permitted to be inspected, tested, and maintained under a performance-based program.

4.8 * Maintenance.

Maintenance shall be performed to keep the system equipment operable or to make repairs.

4.9 Safety.

4.9.1 General.

Inspection, testing, and maintenance activities shall be conducted in accordance with applicable safety regulations.

4.9.2 Confined Spaces.

Legally required precautions shall be taken prior to entering confined spaces such as tanks, valve pits, or trenches.

4.9.3 Fall Protection.

Legally required equipment shall be worn or used to prevent injury from falls to personnel.

4.9.4 Hazards.

Precautions shall be taken to address any hazards, such as protection against drowning where working on the top of a filled embankment or a supported, rubberized fabric tank, or over open water or other liquids.

4.9.5 * Hazardous Materials.

4.9.5.1

Legally required equipment shall be used where working in an environment with hazardous materials present.

4.9.5.2

The property owner or designated representative shall advise anyone performing inspection, testing, and maintenance on any system under the scope of this document, with regard to hazardous materials stored on the premises.

4.9.6 * Electrical Safety.

Legally required precautions shall be taken when testing or maintaining electric controllers for motor-driven fire pumps.

Fire Suppression Supplemental Form

Location Code: DTHVTOT

Contact: Owner or Manager

Contact Address: 74 ORION STREET
Brunswick, ME 04011

Phone:

Email:

Property Evaluated: MRRA - HANGAR 4 (Assembly)
74 ORION STREET
Brunswick, ME 04011

Description: Fire Suppression Supplement (Foam Suppression System)

Work Order: SV2307030240/1

Company: Eastern Fire

Address: 170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210

Company Phone: 207-784-1507

Company Fax: 207-782-0566

Inspector: Alex Haggan
Not Required

Date of Work: 7/5/2023

Deficiency Summary

Status: Open
Deficiency for Device Type: FLAME, Address: M16, Location: N HANGER UV/IR 1.
Sensors powered down and not functioning

Status: Open
Deficiency for Device Type: FLAME, Address: M17, Location: N HANGER UV/IR 2.
Sensors powered down and not functioning

Status: Open
Deficiency for Device Type: FLAME, Address: M18, Location: M HANGER UV/IR 1.
Sensors powered down and not functioning

Status: Open
Deficiency for Device Type: FLAME, Address: M19, Location: M HANGER UV/IR 2.
Sensors powered down and not functioning

Status: Open
Deficiency for Device Type: FLAME, Address: M20, Location: S HANGER UV/IR 1.
Sensors powered down and not functioning

Status: Open
Deficiency for Device Type: FLAME, Address: M21, Location: S HANGER UV/IR 2.
Sensors powered down and not functioning

Status: Open
Deficiency for Device Type: PS, Address: M26-1, Location: HOSE REEL.
Cannot operate due to cage
Did not trigger foam

Status: Open
Deficiency for Device Type: PS, Address: M26-2, Location: HOSE REEL.
Cannot operate due to cage
Did not trigger foam

Status: Open
Deficiency for Device Type: PS, Address: M26-3, Location: HOSE REEL.
Did not trigger foam

Status: Open
Deficiency for Device Type: PS, Address: M26-4, Location: HOSE REEL.
Did not trigger foam

Status: Open
Deficiency for Device Type: PS, Address: M21-1, Location: NORTH HANGER BAY DOOR.
Did not activate foam

Status: Open
Deficiency for Device Type: PS, Address: M21-2, Location: NORTH HANGER BAY DOOR.
Did not activate foam

Status: Open
Deficiency for Device Type: PS, Address: M21-3, Location: NORTH HANGER BAY DOOR.
Did not activate foam

Status: Open
Deficiency for Device Type: PS, Address: M22-1, Location: NORTH HANGER BAY.
Did not activate foam

Status: Open
Deficiency for Device Type: PS, Address: M22-2, Location: NORTH HANGER BAY.
Did not activate foam

Status: Open
Deficiency for Device Type: PS, Address: M23-1, Location: MIDDLE HANGER BAY.
Did not activate foam

Status: Open
Deficiency for Device Type: PS, Address: M23-2, Location: MIDDLE HANGER BAY.
Did not activate foam

Status: Open
Deficiency for Device Type: PS, Address: M24-1, Location: SOUTH HANGER BAY.
Did not activate foam

Status: Open
Deficiency for Device Type: PS, Address: M24-2, Location: SOUTH HANGER BAY.
Did not activate foam

Status: Open
Deficiency for Device Type: PS, Address: M25-1, Location: SOUTH HANGER BAY DOORS.
Did not activate foam

Status: Open
Deficiency for Device Type: PS, Address: M25-2, Location: SOUTH HANGER BAY DOORS.
Did not activate foam

Status: Open
Deficiency for Device Type: PS, Address: M25-3, Location: SOUTH HANGER BAY DOORS.
Did not activate foam

General Comments

These items are outside the regular scope of the required inspection and are not the result of an engineering review. This information is not intended to be all-inclusive but rather a list of items discovered as a by-product of the required inspection.

There are no general comments for this submission

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

Fire Suppression Supplemental Form

The work covered on this form is (select one): Annual
Date of Work 7/5/2023

Account Information		
Facility Name: MRRA - HANGAR 4	Property Type: Assembly	Location Code: DTHVTOT
Service Address: 74 ORION STREET, Brunswick, ME, 04011		
Owner: Owner or Manager		Owner's Phone:
Owner's Address: 74 ORION STREET, Brunswick, ME, 04011		

Legend					
AS - Abort Station	BATT - Batteries	CoD - Carbon Monoxide Detector		CM - Control Module	DA - Damper
DD - Duct Detector	DH - Door Holder	EL - Emergency/Exit Light	HD - Heat Detector	HORN - Horns	H/S - Horn-Strobes
LA - Low Air	MM - Monitor Module (Ansul, temp, CO, etc)		MR - Manual Release	Other	PR - Phase Reversal
PS - Pull Station	PWS - Power Supply	SC - Signal/Sounder Control	SD - Smoke Detector	SD-Ion - Ion Smoke Detector	
SD-Photo - Photo Smoke Detector		SPKR - Speakers	STROBE - Strobes	TS - Tamper Switch	WF - Waterflow

Type	Total	Tested	Not Tested	Passed	Failed
FIRE PUMP	1	1	0	1	0
FLAME	6	6	0	0	6
PS	33	33	0	17	16
RELAY	19	6	13	6	0
SPARE	2	0	2	0	0
WF	4	4	0	4	0

Type	Total	Tested	Not Tested	Passed	Failed
FIRE PUMP RUNNING	4	2	2	2	0
MM	3	3	0	3	0
PWS	1	1	0	1	0
SD	1	1	0	1	0
TS	5	5	0	5	0

Zone: ANSUL INITIATING

Zone: ANSUL INITIATING						
Type	Address	Location	Notes	Last Tested	Test Results	Comments
PWS	M01	ALTRONIX PWR MONITOR		7/6/2023	Pass	
MM	M02	ANSUL PANEL MONITOR		7/6/2023	Pass	
WF	M13	FLOWS RISER 1/2/3		7/6/2023	Pass	

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

Zone: ANSUL INITIATING						
Type	**Address**	**Location**	**Notes**	**Last Tested**	**Test Results**	**Comments**
WF	M22	FLOWS RISER 4/5/M/N		7/6/2023	Pass	
PS	M26-1	HOSE REEL		7/6/2023	Fail	Cannot operate due to cage Did not trigger foam
PS	M26-2	HOSE REEL		7/6/2023	Fail	Cannot operate due to cage Did not trigger foam
PS	M26-3	HOSE REEL		7/6/2023	Fail	Did not trigger foam
PS	M26-4	HOSE REEL		7/6/2023	Fail	Did not trigger foam
PS	M11	M HANGER PULL		7/6/2023	Pass	
FLAME	M18	M HANGER UV/IR 1		7/6/2023	Fail	Sensors powered down and not functioning
FLAME	M19	M HANGER UV/IR 2		7/6/2023	Fail	Sensors powered down and not functioning
PS	M10	N HANGER PULL		7/6/2023	Pass	
FLAME	M16	N HANGER UV/IR 1		7/6/2023	Fail	Sensors powered down and not functioning
FLAME	M17	N HANGER UV/IR 2		7/6/2023	Fail	Sensors powered down and not functioning
PS	M12	S HANGER PULL		7/6/2023	Pass	
FLAME	M20	S HANGER UV/IR 1		7/6/2023	Fail	Sensors powered down and not functioning
FLAME	M21	S HANGER UV/IR 2		7/6/2023	Fail	Sensors powered down and not functioning
WF	M25	SOUTH RISER		7/6/2023	Pass	
TS	M14	TAMPER RISER 1/2/3		7/6/2023	Pass	
TS	M23	TAMPERS RISER 4/5/M/N		7/6/2023	Pass	
TS	M15	TANK TAMPERS		7/6/2023	Pass	
TS	M24	UPPER NORTH TAMPERS		7/6/2023	Pass	

Zone: ANSUL RELAYS

Zone: ANSUL RELAYS						
Type	**Address**	**Location**	**Notes**	**Last Tested**	**Test Results**	**Comments**
RELAY	M45	COMMON TROUBLE / FACP	To old King Fisher panel - not in service		N/A	
FIRE PUMP RUNNING	M51	FIRE PUMP 1 START		7/6/2023	Pass	
FIRE PUMP RUNNING	M52	FIRE PUMP 2 START		7/6/2023	Pass	
FIRE PUMP	M29	FIRE PUMP TROUBLE		7/6/2023	Pass	
FIRE PUMP RUNNING	M54	FOLLOW FIRE PUMP	Unknown trigger		N/A	
FIRE PUMP RUNNING	M55	FOLLOW FIRE PUMP	Unknown trigger		N/A	
RELAY	M50	GENERAL ALARM / FACP	To old King Fisher panel - not in service		N/A	
RELAY	M44	HOSE REELS / FACP	To old King Fisher panel - not in service		N/A	

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

Zone: ANSUL RELAYS						
Type	**Address**	**Location**	**Notes**	**Last Tested**	**Test Results**	**Comments**
RELAY	M33	M HANGER BAY 3 / FACP	To old King Fisher panel - not in service		N/A	
RELAY	M68	M HANGER MONITOR / SOLINOID		7/6/2023	Pass	
RELAY	M42	MIDDLE MONITORS / FACP	To old King Fisher panel - not in service		N/A	
RELAY	M31	N HANGER BAY 1/ FACP	To old King Fisher panel - not in service		N/A	
RELAY	M32	N HANGER BAY 2 / FACP	To old King Fisher panel - not in service		N/A	
RELAY	M30	N HANGER DR / FACP	To old King Fisher panel - not in service		N/A	
RELAY	M67	N HANGER MONITOR / SOLINOID		7/6/2023	Pass	
RELAY	M41	NORTH MONITORS / FACP	To old King Fisher panel - not in service		N/A	
RELAY	M34	S HANGER BAY 4 / FACP	To old King Fisher panel - not in service		N/A	
RELAY	M35	S HANGER BAY 5 / FACP	To old King Fisher panel - not in service		N/A	
RELAY	M40	S HANGER DR / FACP	To old King Fisher panel - not in service		N/A	
RELAY	M69	S HANGER MONITOR / SOLINOID		7/6/2023	Pass	
RELAY	M43	SOUTH MONITORS / FACP	To old King Fisher panel - not in service		N/A	
SPARE	M27	SPARE INPUT			N/A	
SPARE	M28	SPARE INPUT			N/A	
RELAY	M53	SUPERVISORY OUTPUT		7/6/2023	Pass	

Zone: NOTIFIER INITIATING

Zone: NOTIFIER INITIATING						
Type	**Address**	**Location**	**Notes**	**Last Tested**	**Test Results**	**Comments**
PS	M05	BOILER ROOM 102		7/6/2023	Pass	
PS	M06	BOILER ROOM 102		7/6/2023	Pass	
PS	M07	CORRIDOR 104		7/6/2023	Pass	
PS	M15	CORRIDOR 104		7/6/2023	Pass	
PS	M18	HANGER DOOR TO 105		7/6/2023	Pass	
PS	M19	HANGER NORTH CORNER EXIT		7/6/2023	Pass	
PS	M17	HANGER SOUTH CORNER EXIT		7/6/2023	Pass	
PS	M16	HANGER SOUTH EXIT		7/6/2023	Pass	
PS	M14	MAINTENANCE ROOM 114 PULL		7/6/2023	Pass	
PS	M92	M HANGER ANSUL PULL ACTIVATE		7/6/2023	Pass	
PS	M23-1	MIDDLE HANGER BAY		7/6/2023	Fail	Did not activate foam

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

Zone: NOTIFIER INITIATING						
Type	**Address**	**Location**	**Notes**	**Last Tested**	**Test Results**	**Comments**
PS	M23-2	MIDDLE HANGER BAY		7/6/2023	Fail	Did not activate foam
PS	M22-1	NORTH HANGER BAY		7/6/2023	Fail	Did not activate foam
PS	M22-2	NORTH HANGER BAY		7/6/2023	Fail	Did not activate foam
PS	M21-1	NORTH HANGER BAY DOOR		7/6/2023	Fail	Did not activate foam
PS	M21-2	NORTH HANGER BAY DOOR		7/6/2023	Fail	Did not activate foam
PS	M21-3	NORTH HANGER BAY DOOR		7/6/2023	Fail	Did not activate foam
PS	M93	S HANGER ANSUL PULL ACTIVATE		7/6/2023	Pass	
SD	D01	SMOKE ABOVE PANEL		7/6/2023	Pass	
PS	M24-1	SOUTH HANGER BAY		7/6/2023	Fail	Did not activate foam
PS	M24-2	SOUTH HANGER BAY		7/6/2023	Fail	Did not activate foam
PS	M25-1	SOUTH HANGER BAY DOORS		7/6/2023	Fail	Did not activate foam
PS	M25-2	SOUTH HANGER BAY DOORS		7/6/2023	Fail	Did not activate foam
PS	M25-3	SOUTH HANGER BAY DOORS		7/6/2023	Fail	Did not activate foam
PS	M04	SPRINKLER ROOM 103		7/6/2023	Pass	
WF	M13	SPRINKLER ROOM FEED		7/6/2023	Pass	
TS	M12	SPRINKLER ROOM TAMPER		7/6/2023	Pass	
PS	M08	VESTIBULE 108		7/6/2023	Pass	
PS	M09	VESTIBULE 109		7/6/2023	Pass	

Zone: NOTIFIER RELAYS

Zone: NOTIFIER RELAYS						
Type	**Address**	**Location**	**Notes**	**Last Tested**	**Test Results**	**Comments**
MM	M03	FOAM PANEL ALARM		7/6/2023	Pass	
RELAY	M91	N HANGER ANSUL ACTIVATE		7/6/2023	Pass	
RELAY	M01	SILENT KNIGHT ALARM TRIP		7/6/2023	Pass	
MM	M02	TRIP FROM SILENT KNIGHT		7/6/2023	Pass	

Comments

Any deficiencies or other problems found with the devices must be explained using the comment specific for each device. Additional comments can be added here.

Please see the summary section at the top of the form for the comments.

Inspector's Information

Inspected By: Alex Haggan

Inspector License: Not Required

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

I state that the information on this form is correct at the time and place of my inspection, and that all equipment tested at this time was left in operating condition upon completion of this inspection except as noted in the *Comments*.

Signature of Inspector 

Date 7/6/2023

Fire Suppression Inspection and Testing Report

Location Code: DTHVTOT

Contact: Owner or Manager

Contact Address: 74 ORION STREET
Brunswick, ME 04011

Phone:

Email:

Property Evaluated: MRRA - HANGAR 4 (Assembly)
74 ORION STREET
Brunswick, ME 04011

Description: Fire Suppression (Foam Suppression System)

Work Order: SV2307030240/1

Company: Eastern Fire

Address: 170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210

Company Phone: 207-784-1507

Company Fax: 207-782-0566

Inspector: Alex Haggan
Not Required

Date of Work: 7/5/2023

Frequency: Annual

Tag: N/A

Deficiency Summary

Status: Open
a. Did all tested initiating devices pass?
All pull stations did not trigger foam release
M22-2 & M22-1 - could not open covers due to cage

Status: Open
b. Are door sweeps & door frame weather stripping installed?
Some doors have no bottom weather stripping installed

Status: Open
c. Are door stripping and sweeps free of any light penetrations?
Some doors have no bottom weather stripping installed

General Comments

These items are outside the regular scope of the required inspection and are not the result of an engineering review. This information is not intended to be all-inclusive but rather a list of items discovered as a by-product of the required inspection.

There are no general comments for this submission

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

Fire Suppression Inspection and Testing Report

1. Property Information

Tag	N/A
Inspection Frequency:	Annual

Property Being Evaluated:
MRRA - HANGAR 4 (Assembly)
Owner:
Owner or Manager
Owner's Phone Number:
Property Address:
74 ORION STREET, Brunswick, ME, 04011
Assembly Description:
Fire Suppression (Foam Suppression System)

2. Owner's Section

Has the Owners section been answered on another inspection report that will be submitted with this inspection report? ☑ Yes ☐ No

3. Monitoring Information

Is there a monitoring entity?	☑ Yes ☐ No
Monitoring organization:	Centralarm
Phone:	18006392066
Email:	N/A
Account number:	196A5018
Phone line 1:	N/A
Phone line 2:	N/A
Means of transmission:	AES Radio VIA FACP
Entity to which alarms are retransmitted:	Brunswick Fire Dispatch
Phone:	(207)721-4301

4. Notifications Made Prior To Testing

	Contact	Time
Monitoring organization:	Centralarm	10:00 AM
Building management:	MRRA	10:00 AM

5. System Information - Panels / Power

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

5.1 Addressable Panels								
Control Unit	Manufacturer: Ansul		Model Number: IQ301		Location: Hangar 4 Sprinkler Room			Software Revision: NA
SLC Loops	Max #: 1	# Utilized: 1	Addresses Available: N/A		NAC Circuits	Max #: 4	# Utilized: 0	Style/Class: B
Primary Power	Voltage: 120 VAC	Amps: N/A	Overcurrent Protection Type: Circuit Breaker		Amps: N/A	Disconnecting Means Location: Electrical Room		
Battery 1	Voltage: 12 VDC	Amps: 35 Ah	Mfr Year: 2018	Load Test Battery 1	VDC: 13.05 VDC	Ah: 90%	Charger Voltage: 26.78 VDC	Result of Battery 1 & 2
Battery 2	Voltage: 12 VDC	Amps: 35 Ah	Mfr Year: 2018	Load Test Battery 2	VDC: 13.08 VDC	Ah: 90%	Charger Voltage: 26.78 VDC	☑ Pass ☐ Fail ☐ Replaced
Secondary Power	Other Power Present? ☐ Yes ☑ No		Description:					

Control Unit	Manufacturer: Notifier		Model Number: NFW2-100		Location: Hangar 4 Sprinkler Room			Software Revision: N/A
SLC Loops	Max #: 1	# Utilized: 1	Addresses Available: N/A		NAC Circuits	Max #: 4	# Utilized: 4	Style/Class: A
Primary Power	Voltage: 120 VAC	Amps: N/A	Overcurrent Protection Type: Circuit Breaker		Amps: N/A	Disconnecting Means Location: Electrical Room		
Battery 1	Voltage: 12 VDC	Amps: 12 Ah	Mfr Year: 2018	Load Test Battery 1	VDC: 13.12 VDC	Ah: 100%	Charger Voltage: 27.27 VDC	Result of Battery 1 & 2
Battery 2	Voltage: 12 VDC	Amps: 12 Ah	Mfr Year: 2018	Load Test Battery 2	VDC: 13.18 VDC	Ah: 100%	Charger Voltage: 27.27 VDC	☑ Pass ☐ Fail ☐ Replaced
Secondary Power	Other Power Present? ☐ Yes ☑ No		Description:					

5.3 Additional Power Supplies

Are there additional power supplies? ☑ Yes ☐ No

Power Supplies								
Control Unit	Manufacturer: Altronix		Model Number: AL1024ULX		Location: Beside Foam Releasing Panel			Disconnecting Location: N/A
Battery 1	Voltage: 12 VDC	Amps: 7 AH	Mfr Year: 2018	Load Test Battery 1	VDC: 13.08 VDC	Ah: 100%	Charger Voltage: 27.45 VDC	Result of Battery 1 & 2
Battery 2	Voltage: 12 VDC	Amps: 7 AH	Mfr Year: 2018	Load Test Battery 2	VDC: 13.02 VDC	Ah: 100%	Charger Voltage: 27.45 VDC	☑ Pass ☐ Fail ☐ Replaced

5.4 Suppression Cylinder Inspection
5.5 Additional Cylinder Info

What is the release type? ☐ Pneumatic ☑ Electric ☐ Other

Select the Electric release type. ☐ IVO ☐ GCA ☑ Solenoid ☐ SQUIB

What is the hazard reserve protection? ☐ Wet Sprinkler ☐ Dry Sprinkler ☐ PreAction ☐ Clean Agent ☐ Gas ☑ Other ☐ None

Describe hazard reserve protection. AFFF Foam

6. Testing Results

6.1 Control Unit and Related Equipment

Description	Visual Inspection	Functional Test	Results
Control unit	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Lamps / LEDs / LCDs	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Fuses	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Trouble signals	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Disconnect switches	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Ground-fault monitoring	☑ Yes ☐ No	☐ Yes ☑ No	☐ Pass ☐ Fail ☑ N/A
Supervision	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Annunciators	☐ Yes ☑ No	☐ Yes ☑ No	☐ Pass ☐ Fail ☑ N/A
Remote power panels	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Other	☐ Yes ☐ No	☐ Yes ☐ No	☐ Pass ☐ Fail ☐ N/A

6.2 Secondary Power

Description	Visual Inspection	Functional Test	Results
Battery condition	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Load voltage	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Discharge test	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Charger test	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A
Remote panel batteries	☑ Yes ☐ No	☑ Yes ☐ No	☑ Pass ☐ Fail ☐ N/A

6.3 Alarm and Supervisory Alarm Initiating Device

Complete supplementary device test form for all initiating devices.

a. Did all tested initiating devices pass? ☐ Yes ☑ No ☐ N/A

6.4 Notification Appliances

Include Notification Appliances Table on this Report? ☑ Yes ☐ No

Notification Appliances

Appliance Type	Notification Function	# Installed	# Tested	Test Results
Bell(s)		0	0	☐ Pass ☐ Fail ☑ N/A
Horn(s)		0	0	☐ Pass ☐ Fail ☑ N/A
Horn/Strobe(s)	Pre Discharge/Discharge	23	23	☑ Pass ☐ Fail ☐ N/A
Mini Horn(s)		0	0	☐ Pass ☐ Fail ☑ N/A
Speaker(s)		0	0	☐ Pass ☐ Fail ☑ N/A
Speaker/Strobe(s)		0	0	☐ Pass ☐ Fail ☑ N/A
Strobe(s)		0	0	☐ Pass ☐ Fail ☑ N/A

6.5 Interface Equipment

Include Interface Equipment on this Report? ☐ Yes ☑ No

6.6 Supervising Station Monitoring

Description	Yes/No	Time (sec)	Results
Alarm signal	☐ Yes ☐ No		☐ Pass ☐ Fail ☑ N/A
Alarm restoration	☐ Yes ☐ No		☐ Pass ☐ Fail ☑ N/A
Trouble signal	☐ Yes ☐ No		☐ Pass ☐ Fail ☑ N/A
Trouble restoration	☐ Yes ☐ No		☐ Pass ☐ Fail ☑ N/A
Supervisory signal	☐ Yes ☐ No		☐ Pass ☐ Fail ☑ N/A
Supervisory restoration	☐ Yes ☐ No		☐ Pass ☐ Fail ☑ N/A

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

6.7 Air Sampling Detection

Is there Air Sampling Detection? ☐ Yes ☑ No

6.8 Device Information

Devices				
Pull Station Manufacturer(s) Notifier	Type ☐ Keyed ☐ Hex Key ☑ Screw	Detector manufacturer(s) Notifier	Notification device manufacturer(s) System sensor	Color ☑ Red ☐ White

7. Notifications That Testing Is Complete

	Contact	Time
Monitoring organization:	Centralarm	4:00 PM
Building management:	MRRA	4:00 PM

8. System Restored To Normal Operation

Date: 7/5/2023
Time: 4:00 PM

9. Observations

These items are outside the regular scope of the required inspection and are not the result of an engineering review. This information is not intended to be all-inclusive but rather a list of items discovered as a by-product of the required inspection.

Please see the summary section at the top of the form for the comments.

10. Inspector Information:

Test Verification:
Inspected By: Alex Haggan
Inspector Signature: 
Inspector License: Not Required
Date of Work: 7/5/2023

Inspection Notes

Recommend combining the 2 releasing panels into 1

Room Integrity

a. Is integrity of the hazard space visually acceptable? ☑ Yes ☐ No ☐ N/A
b. Are door sweeps & door frame weather stripping installed? ☐ Yes ☑ No ☐ N/A
c. Are door stripping and sweeps free of any light penetrations? ☐ Yes ☑ No ☐ N/A
d. Are doors self-closing? ☑ Yes ☐ No ☐ N/A
e. Did doors closures operate properly? ☐ Yes ☐ No ☑ N/A
f. Are wall and ceiling penetrations properly sealed? ☑ Yes ☐ No ☐ N/A

Safety Requirements: CO2 Systems

a. Signage: Is proper signage installed? ☐ Yes ☐ No ☑ N/A
b. Is a Pneumatic Delay Timer & Pneumatic Pre-Discharge Alarm installed? ☐ Yes ☐ No ☑ N/A
c. Are lock-out valves available? ☐ Yes ☐ No ☑ N/A
d. Is a Solenoid disconnect switch or releasing circuit disconnect available at the control panel? ☐ Yes ☐ No ☑ N/A
e. Are visual and audible devices located at the entrance to each occupiable space protected by a CO2 system & at the entrance to each space where CO2 could migrate? ☐ Yes ☐ No ☑ N/A
f. Are provisions available to prohibit entry of unprotected personnel to the protected spaces. If yes, what type? ☐ Yes ☐ No ☑ N/A
If Yes, what type? ☐ Distinctive Odorizer ☐ Automatic alarms activated by CO2 or O2 detect ors ☐ Establishment & enforcement of confined space entry procedures for such areas.

Safety Requirements: Clean Agent Systems

a. Signage: Is proper signage installed? ☐ Yes ☐ No ☑ N/A
b. Is a Solenoid Disconnect Switch or Releasing Circuit Disconnect available at the control panel? ☐ Yes ☐ No ☑ N/A

HOME OFFICE
Auburn, Maine
207-784-1507

EASTERN FIRE
POWERED BY API Group

BRANCH OFFICE
Bangor, Maine
207-942-8014

SYSTEM OWNER RESPONSIBILITIES

RESPONSIBILITY TO BE INFORMED

1. At the end of this report is an excerpt from NFPA 25 – 2014 which defines the responsibilities of the property/system owner or their designated representative. PLEASE BE SURE THAT YOU READ THIS MATERIAL. Eastern Fire is not a designated representative. A designated representative is a party who has full access to, and control over, all aspects of a property including, but not limited to, all locked doors, fire alarm and security panels, fire alarm and security monitoring accounts, etc.
2. The property/system owner or designated representative should purchase a copy of the currently adopted edition of NFPA-25 from the NFPA. As of July 1, 2022 the State of Maine has adopted the 2014 edition of NFPA 25. The currently adopted version can be verified at the State of Maine Fire Marshal's website.

RESPONSIBILITY FOR MAINTENANCE BEFORE AND DURING COLD WEATHER

1. The property/system owner or designated representative must provide adequate heat in all areas of a building protected by a fire sprinkler system to prevent freezing of the water filled sprinkler pipes. Even dry sprinkler systems may have sections of piping intended to always be in properly heated areas, so those pipes may contain water that cannot be removed and will freeze.
2. The property/system owner or designated representative must maintain dry system low point drains before and during months (October through April) when temperatures are below freezing. Due to ever changing environmental conditions dry system low point drains can collect water at all times of the year and need to be checked frequently in the months prior to and during freezing weather seasons.
3. The property/system owner or designated representative are responsible for identifying to Eastern fire the location of all dry system low point drains. Any dry system low point drains that you have made Eastern Fire aware of will be drained 1 time during the year at the time of the annual trip test, which may take place anytime between April and October. The property/system owner or designated representative must also maintain the dry system low points as outlined in #2 above in order to prevent freezing.

RESPONSIBILITY FOR IDENTIFYING EQUIPMENT LOCATIONS

1. The property/system owner or designated representative is responsible for identifying to Eastern Fire the location of all sprinkler system components, including but not limited to those in the following list
    a. Wet, dry, antifreeze, preaction, deluge, etc. system risers
    b. Compressed air or nitrogen systems
    c. Sectional control valves
    d. Wet and dry low point drains

Wet Fire Sprinkler System Inspection Report

Location Code: DTHVTOT

Contact: Owner or Manager

Contact Address: 74 ORION STREET
Brunswick, ME 04011

Phone:

Email:

Property Evaluated: MRRA - HANGAR 4 (Assembly)
74 ORION STREET
Brunswick, ME 04011

Description: Wet (Valve room)

Work Order: SV2409261439/1

Company: Eastern Fire

Address: 170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210

Company Phone: 207-784-1507

Company Fax: 207-782-0566

Inspector: Barry Prescott
ME State Inspector

Date of Work: 11/22/2024

Frequency: Semi-Annual

Tag: NA

Deficiency Summary

Status: Open
Control Valves: System, No. of Valves: 5, Type: OS&Y
Additional Info:
Easily Accessible: Yes.
Signs?: Yes.
Valve in proper position?: Yes.
Secured?: Yes.
Supervision Operational?: No. Hangar bay 5 wet system OS&Y control valve tamper switch does not operate and should be replaced.

NFPA 25-2014 13.3.2.1.2
Controlvalvesupervisory alarm devices shall be inspected quarterly to verify that they are free of physical damage.

Status: Open
d. Did the supervisory alarms operate during testing?
The Bay 5 OS&Y tamper switch is not working and should be replaced.
NFPA 25-2014 13.3.2.1.2
Controlvalvesupervisory alarm devices shall be inspected quarterly to verify that they are free of physical damage.

Status: Open
a. Do all gauges appear to be in good condition and read within normal range?
Gauges are due for replacement.
NFPA 25-2014 13.2.7.1
Gauges shall be inspected monthly to verify that they are in good condition and that normal pressure is being maintained.

Status: Open
b. Has there been an internal inspection of the piping within the last 5 years?
Systems have not been internally inspected, but were partially flushed in 2024.
NFPA 25-2014 14.2.1.1
An assessment of the internal condition of piping shall be condicted shall be conducted at a minimum of every 5 years or in accordance with 14.2.1.2 for the purpose of inspecting for the presence of foreign organic or inorganic material. 14.2.1.2 Where an assessment frequency has been established by an approved risk analysis, the assessment shall be performed at a frequency determined by the approved risk analysis.

General Comments

These items are outside the regular scope of the required inspection and are not the result of an engineering review. This information is not intended to be all-inclusive but rather a list of items discovered as a by-product of the required inspection.

The fire alarm system has multiple trouble conditions due to the foam deluge systems being shut off. Bay 4 and 5 control valve tamper signals are on the same zone as the shut off deluge valves and therefore don't not indicate the wet control valve position. The deluge valve alarm and tamper switches should be divorced from the Bay 4 & 5 zone so that the wet valves are properly supervised.

Eastern Fire
170 Kittyhawk Ave., P.O. Box 1390
Auburn, ME 04210
Phone: 207-784-1507

Wet Fire Sprinkler System Inspection Report

Tag: NA
Inspection Frequency: Semi-Annual
Property Being Evaluated:
MRRA - HANGAR 4 (Assembly)
Owner:
Owner or Manager
Owner's Phone Number:
Property Address:
74 ORION STREET, Brunswick, ME, 04011

1. General

A. **(To be filled out by the Owner or Owner's Representative)**
Has the Owners section been answered on another inspection report that will be submitted with this inspection report? ☑ Yes ☐ No ☐ Owner not Available

2. Control Valves

a. Do Control Valves appear to be free of damage/leaks? ☑ Yes ☐ No

Control Valves:	No. of Valves:	Type:	Additional Info:	Easily Accessible?	Signs?	Valve in proper position?	Secured?	Supervision Operational?
System	1	PIV		☑ Yes ☐ No	☑ Yes ☐ No ☐ N/A	☑ Yes ☐ No	☑ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☑ N/A
System	5	OS&Y		☑ Yes ☐ No	☑ Yes ☐ No ☐ N/A	☑ Yes ☐ No	☑ Yes ☐ No ☐ N/A	☐ Yes ☑ No ☐ N/A

3. Water Supplies

a. Water Supply Source ☐ City ☐ Private
☑ Pressure Fire Pump & Tank ☐ Pressure Fire Pump & City ☐ Pressure Fire Pump & Pond

Main Drain	Main Drain Pipe Size	Static Pressure Before	Flow Pressure	Static Pressure After	Main Drain Valve Location	Time to Restore Pressure	Results
Bay 5	2	185	175	185	At riser	1	☑ Pass ☐ Fail ☐ N/A
Bay 4	2	185	175	185	At riser	1	☑ Pass ☐ Fail ☐ N/A
Bay 3	2	185	175	185	At riser	1	☑ Pass ☐ Fail ☐ N/A
Bay 2	2	185	175	185	At riser	1	☑ Pass ☐ Fail ☐ N/A
Bay 1	2	185	175	185	At riser	1	☑ Pass ☐ Fail ☐ N/A

4. Tanks, Pumps, Fire Dept. Connections

a. Appears that the F.D.C. is in satisfactory condition, couplings free, caps or plugs in place and check valves tight? ☐ Yes ☐ No ☑ N/A
b. Are fire department connections visible, accessible, and identification sign(s) in place? ☐ Yes ☐ No ☑ N/A
c. Do fire pumps, gravity, surface and pressure tanks appear to be in good external condition and properly maintained? ☑ Yes ☐ No ☐ N/A
d. Has the five years hydrostatic test been performed on piping from the fire department connection to the fire department check valve ☐ Yes ☐ No ☑ N/A
e. Date: NA

5. Wet Systems

System #	Make	Model	Size (inches)	Location/Description
Bay 5	Gem	F5201	6	Valve room
Bay 4	Gem	F5201	6	Valve room
Bay 3	Gem	F5201	6	Valve room
Bay 2	Gem	F5201	6	Valve room
Bay 1	Gem	F5201	6	Valve room

a. Do Valve and Trim appear to be free of damage/leaks and in good condition? ☑ Yes ☐ No ☐ N/A
b. Have all control valves been fully operated and returned to their normal position? ☑ Yes ☐ No ☐ N/A

c. Is the Hydraulic Name Plate, if required, securely attached and legible? ☑ Yes ☐ No ☐ N/A

6. Alarms

a. Did the water motor gong operate during testing? ☐ Yes ☐ No ☑ N/A

b. Did the electric alarms operate during testing? ☑ Yes ☐ No ☐ N/A

System	Time
Bay 5	55
Bay 4	58
Bay 3	58
Bay 2	58
Bay 1	53

d. Did the supervisory alarms operate during testing? ☐ Yes ☑ No ☐ N/A

e. Was the alarm panel clear of alarm and trouble signals upon departure? (If no, please explain in comments) ☐ Yes ☑ No ☐ N/A

7. Systems, Sprinklers, and Piping (Inspected at the ground level)

a. Do all gauges appear to be in good condition and read within normal range? ☐ Yes ☑ No ☐ N/A

b. Has there been an internal inspection of the piping within the last 5 years? ☐ Yes ☑ No ☐ N/A

c. Date last checked (Checking is recommended at least every 5 years) Unknown

Not applicable

p. Does the hose valve(s) on the sprinkler system appear to be in satisfactory condition? ☐ Yes ☐ No ☑ N/A

8. Observations

These items are outside the regular scope of the required inspection and are not the result of an engineering review. This information is not intended to be all-inclusive but rather a list of items discovered as a by-product of the required inspection.

Please see the summary section at the top of the form for the comments.

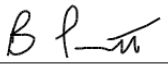
9. Adjustments or Corrections Made:

10. List Changes in the Occupancy Hazard or Fire Protection Equipment, as Advised by the Owner in Section 1A

11. Inspector Information:

Test Verification:

Inspected By Barry Prescott

Inspector Signature 

Inspector License: ME State Inspector

Date of Work 11/22/2024

Inspection Notes

HOME OFFICE
Auburn, Maine
207-784-1507

BRANCH OFFICE
Bangor, Maine
207-942-8014

Below is an excerpt from NFPA 25 – 2014 which defines the responsibilities of the property owner or their designated representative. Eastern Fire is not a designated representative. A designated representative is a party who has full access to, and control over, all aspects of a property including, but not limited to, all locked doors, fire alarm and security panels, fire alarm and security monitoring accounts, etc.

It is recommended that the property owner or designated representative purchase a copy of the currently adopted edition of NFPA-25 from The NFPA. As of July 1, 2022 the State of Maine has adopted the 2014 edition of NFPA 25. The currently adopted version can be verified at the State of Maine Fire Marshal's website.

4.1 Responsibility of Property Owner or Designated Representative.

4.1.1 * Responsibility for Inspection, Testing, Maintenance, and Impairment.

The property owner or designated representative shall be responsible for properly maintaining a water-based fire protection system.

4.1.1.1 *

Inspection, testing, maintenance, and impairment procedures shall be implemented in accordance with those established in this document and in accordance with the manufacturer's instructions.

4.1.1.2

Inspection, testing, and maintenance shall be performed by qualified personnel.

4.1.1.3 *

Where the property owner or designated representative is not the occupant, the property owner or designated representative shall be permitted to delegate the authority for inspecting, testing, maintenance, and the managing of impairments of the fire protection system to a designated representative.

4.1.1.4

Where a designated representative has received the authority for inspecting, testing, maintenance, and the managing of impairments, the designated representative shall comply with the requirements identified for the property owner or designated representative throughout this standard.

4.1.2 * Freeze Protection.

The property owner or designated representative shall ensure that water-filled piping is maintained at a minimum temperature of 40°F (4°C) unless an approved antifreeze solution is utilized.

4.1.2.1

All areas of the building containing water-filled piping that does not have another means of freeze protection shall be maintained at a minimum temperature of 40°F (4°C).

4.1.2.2

Aboveground water-filled pipes that pass through open areas, cold rooms, passageways, or other areas exposed to temperatures below 40°F (4°C), protected against freezing by insulating coverings, frostproof casings, listed heat tracing systems, or other reliable means, shall be maintained at temperatures between 40°F (4°C) and 120°F (48.9°C).

4.1.2.3

Where other approved means of freeze protection for water-filled piping as described in 4.1.2.2 are utilized, they shall be inspected, tested, and maintained in accordance with this standard.

4.1.3 * Accessibility.

The property owner or designated representative shall provide ready accessibility to components of water-based fire protection systems that require inspection, testing, and maintenance.

4.1.4 Notification of System Shutdown or Testing.

The property owner or designated representative shall notify the authority having jurisdiction, the fire department, if required, and the alarm-receiving facility before testing or shutting down a system or its supply.

4.1.4.1

The notification of system shutdown or test shall include the purpose for the shutdown or test, the system or component involved, the estimated time of shutdown or test, and the expected duration of the shutdown or test.

4.1.4.2

The authority having jurisdiction, the fire department, and the alarm-receiving facility shall be notified when the system, supply, or component is returned to service or when the test is complete.

4.1.5 * Corrections and Repairs.

4.1.5.1 *

The property owner or designated representative shall correct or repair deficiencies or impairments that are found during the inspection, test, and maintenance required by this standard.

4.1.5.2

Corrections and repairs shall be performed by qualified maintenance personnel or a qualified contractor.

4.1.6 * Changes in Occupancy, Use, Process, or Materials.

The property owner or designated representative shall not make changes in the occupancy, the use or process, or the materials used or stored in the building without evaluation of the fire protection systems for their capability to protect the new occupancy, use, or materials.

4.1.6.1

The evaluation required by 4.1.6 shall not be considered part of the normal inspection, testing, and maintenance required by this standard.

4.1.6.2

The evaluation shall consider factors that include, but are not limited to, the following:

- (1) Occupancy changes such as converting office or production space into warehousing
- (2) Process or material changes such as metal stamping to molded plastics
- (3) Building revisions such as relocated walls, added mezzanines, and ceilings added below sprinklers
- (4) Removal of heating systems in spaces with piping subject to freezing

4.1.7 * Addressing Changes in Hazard.

4.1.7.1

Where changes in the occupancy, hazard, water supply, storage commodity, storage arrangement, building modification, or other condition that affects the installation criteria of the system are identified, the property owner or designated representative shall promptly take steps to evaluate the adequacy of the installed system in order to protect the building or hazard in question.

4.1.7.2

Where the evaluation reveals that the installed system is inadequate to protect the building or hazard in question, the property owner or designated representative shall make the required corrections.

4.1.7.3

Corrections shall be approved.

4.1.8 Valve Location.

The location of shutoff valves shall be identified at the system riser or other approved locations.

4.1.9 Information Sign.

4.1.9.1

A permanently marked metal or rigid plastic information sign shall be placed at the system control riser supplying an antifreeze loop, dry system, preaction system, or auxiliary system control valve.

4.1.9.2

Each sign shall be secured with a corrosion-resistant wire, chain, or other approved means and shall indicate at least the following information:

- (1) Location of the area served by the system
- (2) Location of auxiliary drains and low-point drains for dry pipe and preaction systems
- (3) The presence and location of antifreeze or other auxiliary systems
- (4) The presence and location(s) of heat tape

4.1.10 Impairments.

4.1.10.1

Where an impairment to a water-based fire protection system occurs or is identified during inspection, testing, or maintenance activities, the procedures outlined in Chapter 15 shall be followed, including the attachment of a tag to the impaired system.

4.1.10.2

Where a water-based fire protection system is returned to service following an impairment, the system shall be verified to be working properly by means of an appropriate inspection or test as described in the table “Summary of Component Replacement [Action] Requirements” in the applicable chapters of this document.

4.2 Manufacturer's Corrective Action.

Manufacturers shall be permitted to make modifications to their own listed product in the field with listed devices that restore the original performance as intended by the listing, where acceptable to the authority having jurisdiction.

4.3 Records.

4.3.1 *

Records shall be made for all inspections, tests, and maintenance of the system and its components and shall be made available to the authority having jurisdiction upon request.

4.3.1.1 *

Records shall be permitted to be stored and accessed electronically.

4.3.2

Records shall indicate the following:

- (1) The procedure/activity performed (e.g., inspection, test, or maintenance)
- (2) The organization that performed the activity
- (3) The required frequency of the activity
- (4) The results and date of the activity
- (5) The name and contact information of the qualified contractor or owner, including lead person for activity

4.3.3 *

Records shall be maintained by the property owner.

4.3.4

As-built system installation drawings, hydraulic calculations, original acceptance test records, and device manufacturer’s data sheets shall be retained for the life of the system.

4.3.5

Subsequent records shall be retained for a period of 1 year after the next inspection, test, or maintenance of that type required by the standard.

4.4 Water Supply Status.

During inspection, testing, and maintenance, water supplies, including fire pumps, shall remain in service unless under constant attendance by qualified personnel or unless impairment procedures in Chapter 15 are followed.

4.5 * Inspection.

System components shall be inspected at intervals specified in the appropriate chapters.

4.6 Testing.

4.6.1

All components and systems shall be tested to verify that they function as intended.

4.6.2

The frequency of tests shall be in accordance with this standard.

4.6.3

Fire protection system components shall be restored to full operational condition following testing, including reinstallation of plugs and caps for auxiliary drains and test valves.

4.6.4 *

Test results shall be compared with those of the original acceptance test (if available) and with the most recent test results.

4.6.5 *

When a component or subsystem is adjusted, repaired, reconditioned, or replaced, it shall be tested in accordance with the original acceptance test required for that subsystem or the requirements where specified by the standard.

4.6.6 * Automated Testing.

(Reserved)

4.7 * Performance-Based Programs.

As an alternative means of compliance and where approved by the authority having jurisdiction, components and systems shall be permitted to be inspected, tested, and maintained under a performance-based program.

4.8 * Maintenance.

Maintenance shall be performed to keep the system equipment operable or to make repairs.

4.9 Safety.

4.9.1 General.

Inspection, testing, and maintenance activities shall be conducted in accordance with applicable safety regulations.

4.9.2 Confined Spaces.

Legally required precautions shall be taken prior to entering confined spaces such as tanks, valve pits, or trenches.

4.9.3 Fall Protection.

Legally required equipment shall be worn or used to prevent injury from falls to personnel.

4.9.4 Hazards.

Precautions shall be taken to address any hazards, such as protection against drowning where working on the top of a filled embankment or a supported, rubberized fabric tank, or over open water or other liquids.

4.9.5 * Hazardous Materials.

4.9.5.1

Legally required equipment shall be used where working in an environment with hazardous materials present.

4.9.5.2

The property owner or designated representative shall advise anyone performing inspection, testing, and maintenance on any system under the scope of this document, with regard to hazardous materials stored on the premises.

4.9.6 * Electrical Safety.

Legally required precautions shall be taken when testing or maintaining electric controllers for motor-driven fire pumps.

Vanessa Bailey

From: Eric Perkins <ericp@mrra.us>
Sent: Friday, March 20, 2020 8:57 AM
To: Steve Levesque
Cc: Jeffrey Jordan
Subject: RE: BXM Hangar 4 fire suppression controls upgrade/repairs

Happy Friday!!

So it looks like the FAA is not going to pay for the repairs in H4. I would strongly recommend we move forward with option 1, cost for this is 24k.

I have gone through the latest financial statement, under professional services line item 50451e we have a surplus of 30k, this line item is for business attraction for the air airport. In the current state of travel and mass gatherings, Jeff feels this money would not be used for any conferences that you would be attending. To that, this would be a good place to pull money to get the foam system in h4 back on line.

There are less expensive options to get the foam system back online, however we will not know if in fact all of the potential wiring issues have been addressed and run the risk of another accidental discharge, next time we will fill the hangar with foam.

Eric Perkins
Property Manager
Midcoast Regional Redevelopment Authority

Suite 200
15 Terminal Road
Brunswick, Maine 04011

E-mail: ericp@mrra.us
Phone: (207) 798-6512
Webpage: www.mrra.us

Thank you for contacting MRRA. Please take our brief ten question Customer Satisfaction Survey.
https://www.surveymonkey.com/s/MRRA_customer_satisfaction

From: Steve Levesque <stevel@mrra.us>
Sent: Tuesday, March 17, 2020 3:32 PM
To: Guy Rouelle <guy.rouelle@rouelleaviation.com>; Sheppard, Suzanne L. <ssheppard@hoyletanner.com>; Peter Eichleay <peichleay@gmail.com>
Cc: Marty McMahon <martym@mrra.us>; Jim Nall <jnall@flightlevelaviation.com>; Eric Perkins <ericp@mrra.us>; 391128 BXM Hangar 4 <391128BXMHangar4@hoyletanner.onmicrosoft.com>
Subject: RE: BXM Hangar 4 fire suppression controls upgrade/repairs

Great thanks Guy

Steve Levesque
Executive Director

Midcoast Regional Redevelopment Authority
"Growing Maine's Innovation Economy"
Work: (207) 798-6512
Cell: (207) 841-9955
www.MRRA.US

From: Guy Rouelle <guy.rouelle@rouelleaviation.com>
Sent: Tuesday, March 17, 2020 3:14 PM
To: Sheppard, Suzanne L. <ssheppard@hoyletanner.com>; Peter Eichleay <peichleay@gmail.com>
Cc: Marty McMahon <martym@mrra.us>; Jim Nall <jnall@flightlevelaviation.com>; Steve Levesque <stevel@mrra.us>; Eric Perkins <ericp@mrra.us>; 391128 BXM Hangar 4 <391128BXMHangar4@hoyletanner.onmicrosoft.com>
Subject: Re: BXM Hangar 4 fire suppression controls upgrade/repairs

Suzy, I have a few ideas. Jim Nall is going to reach out to you and set a call in the morning so that we can formulate a recommendation for Mr. Levesque.

Guy Rouelle
CEO
Rouelle Aviation Group
POB 1536
Montpelier, VT. 05601
877.765.7286 (o) 802.917.5598 (c)

From: Sheppard, Suzanne L. <ssheppard@hoyletanner.com>
Sent: Tuesday, March 17, 2020 3:01 PM
To: Guy Rouelle; Peter Eichleay
Cc: Marty McMahon (martym@mrra.us); Jim Nall; Steve Levesque; Eric Perkins; 391128 BXM Hangar 4
Subject: RE: BXM Hangar 4 fire suppression controls upgrade/repairs

There are two attachments. The first one dated 1-2-2020 is the improvement proposal. This one we have tried to justify as a conversion project. Total was $24,000.
The 2nd attachment, dated 12-3-19 gave a couple more options. The 2 options for repairs are $7,500 or $12,000.

Suzy Sheppard

From: Guy Rouelle <guy.rouelle@rouelleaviation.com>
Sent: Tuesday, March 17, 2020 2:47 PM
To: Sheppard, Suzanne L. <ssheppard@hoyletanner.com>; Peter Eichleay <peichleay@gmail.com>
Cc: Marty McMahon (martym@mrra.us) <martym@mrra.us>; Jim Nall <jnall@flightlevelaviation.com>; Steve Levesque <stevel@mrra.us>; Eric Perkins <ericp@mrra.us>
Subject: Re: BXM Hangar 4 fire suppression controls upgrade/repairs

Suzy, I was on the call and your summary is a good account. How much money are we talking?

Guy Rouelle
CEO
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From: Sheppard, Suzanne L. <ssheppard@hoyletanner.com>
Sent: Tuesday, March 17, 2020 1:53 PM
To: Peter Eichleay
Cc: Marty McMahon (martym@mrra.us); Guy Rouelle; Jim Nall; Steve Levesque; Eric Perkins
Subject: FW: BXM Hangar 4 fire suppression controls upgrade/repairs

I just got off a call with FAA and DOT that included Barry, Sean and Ralph. We discussed the fire suppression controls at Hangar 4. I included Marty on this email because he knows the issue better than anyone.

Here are the issues at hand:

- The foam system was installed and working but was turned off and the electrical controls faulted. The foam system is currently inoperable.
- The fault in the system happened after the contract with the prime contractor was closed out.
- We have been going back and forth with FAA about funding this and intended to contract directly with Eastern Fire. The email below from FAA states that contracting directly with EF would only work if we were to apply for a new grant. On the phone conversation that we just had we were told that FAA cannot issue a new MAP grant for this work.
- FAA has implied upgrading the system would be eligible (MAP conversion project) if it were funded in the existing AIP grant and contracted with the prime contractor. Penobscot has previously indicated that they are not interested in a new contract for the work. They are only allowed to mark up a sub by 5% and it would not be worth their time.
- EF provided a few options for repairs/upgrades. The repairs are not MAP eligible because FAA views that as maintenance, not a conversion project.
- Tim LeSiege asked if these repairs could be paid for now and reimbursed by entitlement in a later year. FAA wasn't clear on if this could be considered eligible for entitlement funds but did say that it would be difficult to justify that this is needed over airfield safety/maintenance projects. It's considered a revenue generating project and has low priority. If you were to wait for another round of MAP then you'd have to wait to do the work because with discretionary funding you cannot do construction ahead of the grant.

I've tried to find every angle I can to get this paid for but I don't have any more ideas. I did ask if it could be added to the T-hangar project and was told that can't be done. They said that there was a lot more flexibility in the past with MAP projects that just doesn't exist anymore.

I feel that going back to FAA on this is going to be very difficult at this point, but if you can think of something that I haven't please let me know.

Suzy Sheppard

From: Hammer, Barry (FAA) <Barry.Hammer@faa.gov>
Sent: Wednesday, March 11, 2020 6:58 AM
To: Sheppard, Suzanne L. <ssheppard@hoyletanner.com>
Cc: LeSiege, Tim <tim.lesiege@maine.gov>; 391128 BXM Hangar 4 <391128BXMHangar4@hoyletanner.onmicrosoft.com>; Peter Eichleay <peichleay@gmail.com>; Guy Rouelle <guy.rouelle@rouelleaviation.com>; Jim Nall <jnall@flightlevelaviation.com>
Subject: RE: BXM Hangar 4 fire suppression controls upgrade/repairs

Suzy,
If you want to put it with 031-2018 you should procure the work as a change order with the prime contractor. If you want to move forward with a separate procurement, you probably should incorporate the work into a new grant, but that would need to be worked out with Ralph.

The simplified acquisition threshold is currently at $250K, so you could follow these procedures provided they conform to MRRA's own procurement rules. I would caution you however, that the simplified acquisition process does not allow you to sole-source the work. You still need to solicit quotes from a number of potential vendors/contractors. Sole-source approval is a separate provision with its own requirements (AIP Handbook, Paragraph U-18); I do not think that Eastern Fire's installation of the system is enough to justify approval of a sole source procurement. If you solicit multiple vendors and you are they end up being the only respondent then perhaps we'd entertain a sole source procurement, but you'd need to be able to document your efforts.

Let me know if you have any questions.

Regards,
Barry

From: Sheppard, Suzanne L. <ssheppard@hoyletanner.com>
Sent: Tuesday, March 10, 2020 1:49 PM
To: Hammer, Barry (FAA) <Barry.Hammer@faa.gov>
Cc: LeSiege, Tim <tim.lesiege@maine.gov>; 391128 BXM Hangar 4 <391128BXMHangar4@hoyletanner.onmicrosoft.com>; Peter Eichleay <peichleay@gmail.com>; Guy Rouelle <guy.rouelle@rouelleaviation.com>; Jim Nall <jnall@flightlevelaviation.com>
Subject: RE: BXM Hangar 4 fire suppression controls upgrade/repairs

Hi Barry,
Have you had a chance to consider the email below? The airport is anxious to get this resolved.
Thanks,

Suzy Sheppard

From: Sheppard, Suzanne L.
Sent: Thursday, February 27, 2020 5:45 PM
To: Hammer, Barry (FAA) <Barry.Hammer@faa.gov>
Cc: LeSiege, Tim <tim.lesiege@maine.gov>; 391128 BXM Hangar 4 <391128BXMHangar4@hoyletanner.onmicrosoft.com>; Marty McMahon (martym@mrra.us) <martym@mrra.us>; Peter Eichleay <peter@flightlevelaviation.com>
Subject: RE: BXM Hangar 4 fire suppression controls upgrade/repairs

Barry,
The work is required because right now it is inoperable. I guess you could say that means it isn't meeting code. It failed because the conduit that was installed by the Navy failed and was inadequate. Couldn't this qualify as a conversion project?

Below is a description of the need for this 'conversion'. It shorted out because the system is vulnerable. If MRRA simply does a repair, this could happen again and then the system that we just installed would be inoperable once again. I feel like this was just bad timing. If this situation had been known prior to the project being scoped it would have been included.

The existing fire suppression controls are based primarily on zones. A zoned style system utilizes one pair of conductors across multiple devices and senses an alarm condition via a "short circuit" condition. These style systems are antiquated and are vulnerable due to the fact that an alarm condition can be triggered by a connected device operating correctly (shorting the two conductors when activated) or a conditional fault on the wires themselves. In this case the exposed wiring in the damaged conduit was either exposed to water/moisture or the jackets of the wires were chafed and touched together. Either are likely to recur without at a minimum repairing the conduit and running new cable as

outlined in option #1. Our suggested path forward is to replace the existing foam controller and peripheral devices with a new addressable releasing panel and all field devices connected to the fire
fighting foam system. This modern technology will utilize existing wiring and communicate digitally to all field devices, eliminating these susceptible zones. This technology allows each individual device (manual pull stations, sprinkler switch etc… to report independently and faults across wiring will report as such instead of potential alarms that can occur across zones. Included in this option would be repair of the damaged conduit and consolidation of conductors. The new digital communication only requires a pair of conductors and would allow the removal of much of the zone wiring. All designated foam releasing stations would also be connected to this panel. It was observed that during the last modification some foam releasing stations were left on the foam controller and some were connected to the building fire alarm system. If option #3 is elected all devices associated with the foam system shall be incorporated into the new controller for ease of future service and maintenance.

Suzy Sheppard

From: Hammer, Barry (FAA) <Barry.Hammer@faa.gov>
Sent: Wednesday, February 26, 2020 9:05 AM
To: Sheppard, Suzanne L. <ssheppard@hoyletanner.com>
Cc: LeSiege, Tim <tim.lesiege@maine.gov>; 391128 BXM Hangar 4 <391128BXMHangar4@hoyletanner.onmicrosoft.com>
Subject: RE: BXM Hangar 4 fire suppression controls upgrade/repairs

Suzy,
The 031-1018 grant was intended to fund the costs necessary to bring the system up to code requirements. Is this work *required* to bring the system up to code requirements?

If yes, then only the work necessary to bring it up to code requirements is eligible. Anything beyond, such as effort to upgrade the system just because there's a new version of software/hardware, is not going to be funded with AIP.

Please let me know what your assessment regarding the necessity to meet code is.

Regards,
Barry

From: Sheppard, Suzanne L. <ssheppard@hoyletanner.com>
Sent: Monday, February 24, 2020 4:01 PM
To: Hammer, Barry (FAA) <Barry.Hammer@faa.gov>
Cc: LeSiege, Tim <tim.lesiege@maine.gov>; 391128 BXM Hangar 4 <391128BXMHangar4@hoyletanner.onmicrosoft.com>
Subject: BXM Hangar 4 fire suppression controls upgrade/repairs

Barry/Tim,
BXM would like to go ahead with the upgrades and repairs to the fire suppression control system. I have attached the proposal for the work. The quote is $24,000. We would like Eastern Fire to do the work because they installed the system. What do I need to do to make sure that this work is eligible for FAA and MaineDOT funding. We have performed an engineering review and found it fair and reasonable.
I read the AIP handbook and referenced the rules for simplified acquisition. Would the following apply to this situation?

c. Equipment acquisition and construction where there is not adequate competition (one bidder, sole source, design/build, small purchase, construction manager-at-risk, etc.)	Cost Analysis	**(1)** Engineer's estimate. **(2)** A statement signed by the sponsor that the cost analysis was performed that includes the sponsor's recommendation that the FAA accept the statement and analysis as evidence of cost reasonableness. **(3)** Bid tabulation (one bidder), proposal (sole source, design/build, construction manager-at-risk), or winning quote (small purchase). **(4)** Copy of the signed contract (or full set of quotes for small purchase) only if requested by the ADO. **(5)** Any other support documentation requested by the ADO.

This work would be applied to AIP 031-2018.

Thank you,
Suzy

Suzanne Sheppard, PE
Associate
Project Manager, Aviation
Licensed in: NH, ME, and VT
Hoyle, Tanner & Associates, Inc.

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Town of Brunswick, Maine

Incorporated 1739
Brunswick Fire Department

"Working Today for a Safer Tomorrow"

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JAMES MILLSON, DEPUTY CHIEF
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December 16, 2024

Steve Levesque
Midcoast Regional Redevelopment Authority
15 Terminal Road
Brunswick, ME 04011

RE: Plan of corrective action complete

The Brunswick Fire Department Office of Fire Prevention has received completed fire alarm inspection and testing reports for MRRA Hangars 4, 5, & 6. Eastern Fire completed the inspection and testing process on December 6, and the reports were submitted to the Fire Department for review on December 13 and 16, 2024.

Completion of the annual fire alarm inspection and testing meets the requirements of the notice of violation issued on September 19, 2024.

The inspection and testing report did identify system deficiencies that require attention. MRRA and Eastern Fire have communicated a plan to repair these deficiencies when the parts are available. The Fire Department will need to conduct an inspection of the system once all repairs have been completed.

Contact the Brunswick Fire Department, Fire Prevention Division for any questions or clarification.

Respectfully,

Joshua Shean
Deputy Chief,
Fire Prevention Division

CC: Julia Henze, Brunswick Town Manager