

HIGH TECH FIRE PROTECTION

PO Box 156 • Minot, ME 04258-0156

Phone: (207)998-2551 • Fax: (207)998-4187



NFPA Letter of Compliance

Date: January 20, 2016

To: Bayhill Associates

From: Richard Smith

Re: Sprinkler System Compliance Letter

High Tech Fire Protection has installed a new NFPA 13 sprinkler system for (660-662 Congress Street) located in Portland, ME. This system is in accordance with contract # 081814-2.

High Tech Fire Protection hereby guarantees the design, materials and workmanship to meet the requirements necessary for an approved NFPA #13 Automatic Fire Sprinkler System per State and local authority.

A handwritten signature in black ink, appearing to read "Richard Smith". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Sincerely,
Richard Smith
High Tech Fire Protection
207-998-2551
RSmith@htfp.me

*Specializing in Commercial and Residential Fire Sprinkler Systems
Design • Installation • Inspection • Service*



Contractor's Material and Test Certificate for Aboveground Piping

PROCEDURE

Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected and system left in service before contractor's personnel finally leave the job. A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners, and contractors. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances.

PROPERTY NAME **660-662 Congress Street** DATE **12/11/15**

PROPERTY ADDRESS **660-662 Congress Street Portland, ME**

PLANS	ACCEPTED BY State of Maine Fire Marshal's Office	
	ADDRESS 45 Commerce Drive Suite 1	Augusta, ME 04330
	Installation conforms to accepted plans <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Equipment used is approved If no, explain deviations. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

INSTRUCTIONS	Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment? If no, explain? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Has copies of the following been left on the premises? 1. System components instructions <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Care and maintenance instructions <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 3. NFPA 25 (Owners Manual) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

LOCATION OF SYSTEM Supplies buildings **BASEMENT & FIRST FLOOR (NFPA 13 WET ZONE #1)**

SPRINKLERS	MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE/K-FACTOR	QUANTITY	TEMPERATURE RATING
		GLOBE	GL5606 CONC. PEND	2015	K 5.6	33
	GLOBE	GL5615 UPRIGHT	2015	K 5.6	10	155'
	GLOBE	GL5634 DRY CON PD.	2015	K 5.6	3	155'
	GLOBE	GL5626 HORIZ. SW.	2015	K 5.6	1	200'

PIPING & FITTINGS Type of pipe **BLACK IRON**
Type of fittings **BLACK IRON**

ALARM VALVE OR FLOW INDICT.	Alarm Device			Maximum time to operate through test connection.	
	Type	Make	Model	Minutes	Seconds
	WAYNE	System sensor	WFD 25		30

DRY PIPE OPERATION TEST	Dry valve			Q.O.D.					
	Make	Model	Serial no.	Make	Model	Serial no.			
	Time to trip through test connection ¹		Water pressure	Air pressure	Trip point air pressure	Time water reached test outlet ¹		Alarm operated properly	
	Minutes	Seconds	Psi	Psi	Psi	Minutes	Seconds	Yes	No
	Without Q.O.D.								
With Q.O.D.									

DELUGE & PREACTION VALVES	Operation <input type="checkbox"/> Pneumatic <input type="checkbox"/> Electric <input type="checkbox"/> Hydraulic	
	Piping supervised <input type="checkbox"/> Yes <input type="checkbox"/> No	
	Does valve operate from the manual trip, remote, or both control stations? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	Is there an accessible facility in each circuit for testing? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, explain.	
	Make	Model
	Yes	No

PRESSURE REDUCING VALVES	Location and floor	Make & Model	Setting	Static Pressure		Residual Pressure (flowing)		Flow rate
				Inlet (psi)	outlet (psi)	Inlet (psi)	outlet (psi)	Flow (gpm)

¹ Measured from time inspector's test connection is opened.

TEST DESCRIPTION
 Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi (13.6 bar) for 2 hours or 50 psi (3.4 bar) above static pressure in excess of 150 psi (10.2 bar) for 2 hours. Differential dry-pipe valve clappers shall be left open during the test to prevent damage. All aboveground piping leakage shall be stopped.
 Pneumatic: Establish 40 psi (2.7 bar) air pressure and measure drop, which shall not exceed 1 1/2 psi (0.1 bar) in 24 hours. Test pressure tanks at normal water level and air pressure and measure air pressure drop, which shall not exceed 1 1/2 psi (0.1 bar) in 24 hours.

All piping hydrostatically tested at 200 psi (13.8 bar) for 2 hours
 Dry piping pneumatically tested Yes No
 Equipment operates properly Yes No
 If no, state reason
No Dry

Do you certify as the sprinkler contractor that additives and corrosive chemicals, sodium silicate or derivatives of sodium silicate, brine, or other corrosive chemicals were not used for testing systems of stopping leaks? Yes No

TEST	Drain test	Reading of gauge located near water supply test connection: <u>60</u> psi (<u> </u> bar).	Residual pressure with valve in test connection open wide: <u>53</u> psi (<u> </u> bar).
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Underground mains and lead in connections to system riser flushed before connection made to sprinkler piping?

Verified by copy of the U Form No. B5B flushed by installer of underground sprinkler piping? Yes No
 Yes No
 Other Explain
By others

If power-driven fasteners are used in concrete, has representative sample testing be satisfactorily completed? Yes No
 If no, explain
None used

BLANK TESTING GASKETS	Number used <u>0</u>	Locations <u> </u>	Number removed <u>0</u>
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Welding piping Yes No

If Yes...

Do you certify as the sprinkler contractor that welding procedures comply with the requirements of at least AWS B2.1? Yes No

Do you certify that the welding was performed by welders qualified in compliance with the requirements of at least AWS B2.1? Yes No

Do you certify that the welding was carried out in compliance with a documented quality control procedure to ensure that all discs are retrieved, that openings in piping are smooth, that slag and other welding residue are removed, and that the internal diameters of piping are not penetrated? Yes No

CUTOUTS (DISCS) Do you certify that you have a control feature to ensure that all cutouts (discs) are retrieved? Yes No

HYDRAULIC DATA NAMEPLATE	Nameplate provided <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, explain
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REMARKS Date left in service with all control valves open 12/11/15

SIGNATURES Name of sprinkler contractor High Tech Fire Protection

Test witnessed by

For property owner (signed)	<i>[Signature]</i>	Title <u>Owner</u>	Date <u>12/11/15</u>
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For sprinkler contractor (signed)	<i>[Signature]</i>	Title <u>Fitter</u>	Date <u>12/11/15</u>
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Additional Explanations and notes

SPRINKLERS

Contractor's Material and Test Certificate for Aboveground Piping

PROCEDURE

Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected and system left in service before contractor's personnel finally leave the job. A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners, and contractors. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances.

PROPERTY NAME **660-662 Congress Street** DATE **12/11/15**

PROPERTY ADDRESS **660-662 Congress Street Portland, ME**

ACCEPTED BY **State of Maine Fire Marshal's Office**
 PLANS ADDRESS **45 Commerce Drive Suite 1 Augusta, ME 04330**
 Installation conforms to accepted plans Yes No
 Equipment used is approved If no, explain deviations. Yes No

INSTRUCTIONS Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment? If no, explain? Yes No
 Has copies of the following been left on the premises?
 1. System components instructions Yes No
 2. Care and maintenance instructions Yes No
 3. NFPA 25 (Owners Manual) Yes No

LOCATION OF SYSTEM Supplies buildings **2ND & 3RD FLOOR (NFPA 13 WET ZONE #2)**

SPRINKLERS	MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE/K-FACTOR	QUANTITY	TEMPERATURE RATING
		GLOBE	GL5606 CONC. PEND	2015	K 5.6	4
	VIKING	VK474 RES PEND.	2015	K 5.8	25	155'
	VIKING	VK460 RES HSW.	2015	K 5.8	11	155'
	GLOBE	GL5626 HORIZ. SW.	2015	K 5.6	1	200'

PIPING & FITTINGS Type of pipe **BLACK IRON / CPVC**
 Type of fittings **BLACK IRON / CPVC**

ALARM VALVE OR FLOW INDICT. Alarm Device
 Type **Vayne** Make **System Sensor** Model **WFD 30**
 Maximum time to operate through test connection.
 Minutes **30** Seconds **30**

DRY PIPE OPERATION TEST

Dry valve			Q.O.D.					
Make	Model	Serial no.	Make	Model	Serial no.			
Sierra	Sierra							
Time to trip through test connection ¹		Water pressure	Air pressure	Trip point air pressure	Time water reached test outlet ¹	Alarm operated properly		
Minutes	Seconds	Psi	Psi	Psi	Minutes	Seconds	Yes	No
Without Q.O.D.								
With Q.O.D.								

DELUGE & PREACTION VALVES Operation Pneumatic Electric Hydraulic
 Piping supervised Yes No
 Does valve operate from the manual trip, remote, or both control stations? Yes No
 Is there an accessible facility in each circuit for testing? Yes No If no, explain.

Make	Model	Does each circuit operate supervision loss alarm?		Does each circuit operate valve release?		Maximum time of operate release	
		Yes	No	Yes	No	Minutes	Seconds

PRESSURE REDUCING VALVES

Location and floor	Make & Model	Setting	Static Pressure		Residual Pressure (flowing)		Flow rate
			Inlet (psi)	outlet (psi)	Inlet (psi)	outlet (psi)	Flow (gpm)

¹ Measured from time inspector's test connection is opened.

TEST DESCRIPTION
 Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi (13.6 bar) for 2 hours or 50 psi (3.4 bar) above static pressure in excess of 150 psi (10.2 bar) for 2 hours. Differential dry-pipe valve clappers shall be left open during the test to prevent damage. All aboveground piping leakage shall be stopped.
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Drain test	Reading of gauge located near water supply test connection: <u>60</u> psi (___ bar).	Residual pressure with valve in test connection open wide: <u>55</u> psi (___ bar).
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Underground mains and lead in connections to system riser flushed before connection made to sprinkler piping?

Verified by copy of the U Form No. 85B flushed by installer of underground sprinkler piping? Yes No
 Yes No
 Other Explain
By others

If power-driven fasteners are used in concrete, has representative sample testing be satisfactorily completed? Yes No
 If no, explain
None used

BLANK TESTING GASKETS	Number used <u>0</u>	Locations <u>—</u>	Number removed <u>0</u>
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Welding piping Yes No

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HYDRAULIC DATA NAMEPLATE	Nameplate provided <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, explain
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REMARKS Date left in service with all control valves open 12/11/15

SIGNATURES Name of sprinkler contractor High Tech Fire Protection

Test witnessed by

For property owner (signed)	<u>[Signature]</u>	Title <u>Owner</u>	Date <u>12/11/15</u>
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For sprinkler contractor (signed)	<u>[Signature]</u>	Title <u>Fitter</u>	Date <u>12/11/15</u>
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Additional Explanations and notes

SPRINKLERS

Fire Dept