

46

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EASTERN FIRE

FIRE PROTECTION CONTRACTORS AND ENGINEERS

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WARRANTY & COMPLIANCE LETTER

May 5, 2020


Landry French Construction
160 Pleasant Hill Road
Scarborough, Maine 04047

Re: ImmuCell - Portland, Maine

To Whom It May Concern,

This letter certifies that the renovations made to exciting NFPA 13 Wet Sprinkler System at **175 Industrial Way Portland, Maine** has been designed and installed in accordance with state and local codes.

Eastern Fire warranties that the fire sprinkler modifications are free from defects in materials and workmanship for a period of one year beginning on **May 8, 2020**.

Signed: 
Paul A. Tardif - VP/Div. Mgr.

Date: 5/11/20

CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR **A**BOVEGROUND PIPING

FD
6/29

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 contractor. 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: Immuell TI DATE: 2/14/20

PROPERTY ADDRESS: 175 Industrial Way, Portland, Me.

PLANS

ACCEPTED BY APPROVING AUTHORITY(S) NAMES: State Fire Marshall's office

ADDRESS: Augusta, Me.

INSTALLATION CONFORMS TO ACCEPTED PLANS YES NO

EQUIPMENT USED IS APPROVED YES NO

IF NO, EXPLAIN DEVIATIONS

INSTRUCTIONS

HAS PERSON IN CHARGE OF FIRE EQUIPMENT BEEN INSTRUCTED AS TO LOCATION OF CONTROL VALVES AND CARE AND MAINTENANCE OF THIS NEW EQUIPMENT YES NO

IF NO, EXPLAIN

HAVE COPIES OF APPROPRIATE INSTRUCTIONS AND CARE AND MAINTENANCE CHARTS AND NFPA 13A BEEN LEFT ON PREMISES YES NO

IF NO, EXPLAIN

LOCATION OF SYSTEM

SUPPLIES BLDGS. Existing Bldg. New hols only

SPRINKLERS

MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE SIZE	QUANTITY	TEMPERATURE RATING
Reliable Products	FIERSG	2020	1/2"	104	200°

PIPE AND FITTINGS

PIPE CONFORMS TO NFPA 13 STANDARD YES NO

FITTINGS CONFORM TO NFPA 13 STANDARD YES NO

IF NO, EXPLAIN

ALARM VALVE OR FLOW INDICATOR

ALARM DEVICE			MAXIMUM TIME TO OPERATE THROUGH TEST PIPE		
TYPE	MAKE	MODEL	MIN.	SEC.	
Water Flow Sw.	Potter	VSR-F	-	40	

DRY PIPE OPERATING TEST

	DRY VALVE			O.O.D.					
	MAKE	MODEL	SERIAL NO.	MAKE	MODEL	SERIAL NO.			
	TIME TO TRIP THRU TEST PIPE		WATER PRESSURE	AIR PRESSURE	TRIP POINT AIR PRESSURE	TIME WATER REACHED TEST OUTLET		ALARM OPERATED PROPERLY	
	MIN.	SEC.	PSI	PSI	PSI	MIN.	SEC.	YES	NO
Without O.O.D.									
With O.O.D.									

IF NO, EXPLAIN

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		DETECTING MEDIA SUPERVISED <input type="checkbox"/> YES <input type="checkbox"/> NO				
	DOES VALVE OPERATE FROM THE MANUAL TRIP AND/OR REMOTE 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	DOES EACH CIRCUIT OPERATE SUPERVISION LOSS ALARM		DOES EACH CIRCUIT OPERATE VALVE RELEASE		MAXIMUM TIME TO OPERATE RELEASE	
		YES	NO	YES	NO	MIN.	SEC.

TEST DESCRIPTION
HYDROSTATIC: Hydrostatic tests shall be made at not less than 200 psi (13.6 bars) for two hours or 50 psi (3.4 bars) above static pressure in excess of 150 psi (10.2 bars) for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
FLUSHING: Flow the required rate until water is clear as indicated by no collection of foreign material in burlap bags at outlets such as hydrants and blow-offs. Flush at flows not less than 400 GPM (1514 L/min) for 4-inch pipe, 600 GPM (2271 L/min) for 5-inch pipe, 750 GPM (2839 L/min) for 6-inch pipe, 1000 GPM (3785 L/min) for 8-inch pipe, 1500 GPM (5678 L/min) for 10-inch pipe and 2000 GPM (7570 L/min) for 12-inch pipe. When supply cannot produce stipulated flow rates, obtain maximum available.
PNEUMATIC: Establish 40 psi (2.7 bars) air pressure and measure drop which shall not exceed 1-1/2 psi (0.1 bars) 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 bars) in 24 hours.

TESTS	ALL PIPING HYDROSTATICALLY TESTED AT <u>200</u> PSI FOR <u>2</u> HRS. IF NO, STATE REASON	
	DRY PIPING PNEUMATICALLY TESTED <input type="checkbox"/> YES <input type="checkbox"/> NO	
	EQUIPMENT OPERATES PROPERLY <input type="checkbox"/> YES <input type="checkbox"/> NO	
DRAIN TEST	READING OF GAGE LOCATED NEAR WATER SUPPLY TEST PIPE: STATIC PRESSURE: <u>81</u> PSI	RESIDUAL PRESSURE WITH VALVE IN TEST PIPE OPEN WIDE <u>75</u> PSI <u>-2"</u>
Underground mains and lead in connections to system risers flushed before connection made to sprinkler piping.		
VERIFIED BY COPY OF THE U FORM NO. 85B <input type="checkbox"/> YES <input type="checkbox"/> NO		OTHER EXPLAIN <u>Exist. Underground</u>
FLUSHED BY INSTALLER OF UNDERGROUND SPRINKLER PIPING <input type="checkbox"/> YES <input type="checkbox"/> NO		

BLANK TESTING GASKETS	NUMBER USED	LOCATIONS	NUMBER REMOVED
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WELDING	WELDED PIPING <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
	IF YES ...	
	DO YOU CERTIFY AS THE SPRINKLER CONTRACTOR THAT WELDING PROCEDURES COMPLY WITH THE REQUIREMENTS OF AT LEAST AWS D10.9, LEVEL AR-3 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
	DO YOU CERTIFY THAT THE WELDING WAS PERFORMED BY WELDERS QUALIFIED IN COMPLIANCE WITH THE REQUIREMENTS OF AT LEAST AWS D10.9, LEVEL AR-3 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
DO YOU CERTIFY THAT WELDING WAS CARRIED OUT IN COMPLIANCE WITH A DOCUMENTED QUALITY CONTROL PROCEDURE TO INSURE 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 <input checked="" type="checkbox"/> YES <input type="checkbox"/> 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: 5/12/20

SIGNATURES	NAME OF SPRINKLER CONTRACTOR <u>Eastern Fire</u>		
	TESTS WITNESSED BY		
	FOR PROPERTY OWNER (SIGNED) <u>Markie Baillargeon</u>	TITLE <u>Just. LFC BOC</u>	DATE <u>02.14.20</u>
FOR SPRINKLER CONTRACTOR (SIGNED) <u>[Signature]</u>	TITLE <u>Foreman</u>	DATE <u>2/14/20</u>	

ADDITIONAL EXPLANATION AND NOTES