

Denali Fire Protection Inc.

78 Roller Rink Road Oxford, Me 04270

Phone (207) 539-4226 – Fax (207) 539-8544

November 17, 2008

**Dear Clint Gendreau,
Re: Portland Jetport Parking Garage**

This letter is to inform you that the Standpipe system at the above referenced project has been installed in compliance with NFPA 14 2007 edition. The standpipe system has been designed, installed, tested and meets all requirements for the NFPA 14 standard for installation of Standpipes and Hose systems.

Thank you for your time, take care

Sincerely,


Curtis Dow
President

CONTRACTOR'S MATERIAL & 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 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: Portland Jetport DATE: 11/13/08

PROPERTY ADDRESS: 1001 Westbrook St Portland Maine

PLANS

ACCEPTED BY APPROVING AUTHORITY(S) NAMES: STATE FIRE MARSHALS

ADDRESS: AUGUSTA MAINE 04333

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 NEPA 13A BEEN LEFT ON PREMISES YES NO

IF NO, EXPLAIN

OWNER TO PURCHASE COPY OF NFPA 25 2007 EDITION

LOCATION OF SYSTEM

SUPPLIES BLDGS. PHASE 1 OF PARKING GARAGE

SPRINKLERS

MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE SIZE	QUANTITY	TEMPERATURE RATING

PIPE AND FITTINGS

PIPE CONFORMS TO NFPA 14 STANDARD YES NO

FITTINGS CONFORM TO NFPA 14 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.

DRY PIPE OPERATING TEST

	DRY VALVE			O.O.D.			ALARM OPERATED PROPERLY	
	MAKE	MODEL	SERIAL NO.	MAKE	MODEL	SERIAL NO.	YES	NO
	<u>Victalis</u>	<u>S768</u>	<u>DN150 08104</u>					
	TIME TO TRIP THRU TEST PIPE		WATER PRESSURE	AIR PRESSURE	TRIP POINT AIR PRESSURE	TIME WATER REACHED TEST OUTLET		
	MIN.	SEC.	PSI	PSI	PSI	MIN.	SEC.	
Without Q.O.D.		<u>13</u>	<u>80</u>	<u>15</u>	<u>5</u>		<u>20</u>	<input checked="" type="checkbox"/>
With Q.O.D.								

IF NO, EXPLAIN

(OVER)

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	
			YES	NO	YES	NO
					MAXIMUM TIME TO OPERATE RELEASE	
					MIN	SEC
TEST DESCRIPTION	<p>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.</p> <p>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.</p> <p>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.</p>					
TESTS	ALL PIPING HYDROSTATICALLY TESTED AT <u>40</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>80</u> PSI		RESIDUAL PRESSURE WITH VALVE IN TEST PIPE OPEN WIDE <u>75</u> PSI		
	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		
	FLUSHED BY INSTALLER OF UNDERGROUND SPRINKLER PIPING <input type="checkbox"/> YES <input type="checkbox"/> NO			<u>EXISTING UNDERGROUND</u>		
BLANK TESTING GASKETS	NUMBER USED	LOCATIONS				NUMBER REMOVED
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			
REMARKS	DATE LEFT IN SERVICE WITH ALL CONTROL VALVES OPEN: <u>11-13-08</u>					
SIGNATURES	NAME OF SPRINKLER CONTRACTOR					
	<u>DENALI FIRE PROTECTION, INC.</u>					
	TESTS WITNESSED BY					
	FOR PROPERTY OWNER (SIGNED)		TITLE		DATE	
<u>[Signature]</u>		<u>RESIDENT ENGINEER</u>		<u>11/13/08</u>		
FOR SPRINKLER CONTRACTOR (SIGNED)		TITLE		DATE		
<u>[Signature]</u>		<u>Fitter</u>		<u>11-13-08</u>		

ADDITIONAL EXPLANATION AND NOTES