City of Portland
Inspections Division

CERTIFICATE OF OCCUPANCY DOCUMENTS PREPARED FOR

Portland International Jetport Expansion

September 12, 2011

Turner

PWM
Portland International Jetport

Contents:

1. Special Inspection

Letters

Structural Statement of Special Inspections

Project:	PWM Jetport Terminal Enhancement 1001 Westbrook Street Portland, Maine 04102
Permit Applicant:	Turner Construction Company Two Seaport Lane, 2nd Floor Boston, Massachusetts 02210
Owner:	Portland International Jetport 1001 Westbrook Street Portland, Maine 04102

This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a Schedule of Special Inspection services applicable to this project as well as the name of the Structural Special Inspection Coordinator (SSIC) and the identity of other approved agencies to be retained for conducting these inspections and tests.

The Structural Special Inspection Coordinator (SSIC) shall keep records of all Structural inspections and shall furnish inspection reports to the Building Code Official (BCO) and the Structural Registered Design Professional in Responsible Charge (SRDP). Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Structural Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted to the BCO prior to issuance of a Certificate of Use and Occupancy.

The Special Inspection program does not relieve the contractor of the responsibility to comply with the Contract Documents. Job site safety and means and methods of construction are solely the responsibility of the Contractor.

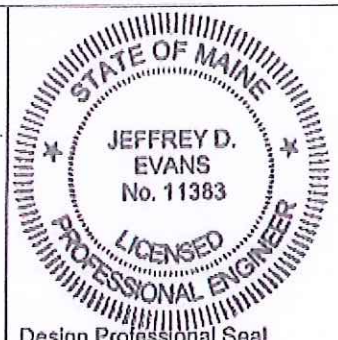
Prepared by:

Jeffrey D. Evans, PE

Structural Registered Design Professional In Responsible Charge

9.8.11

Signature



Design Professional Seal

Owner's Authorization:

Signature Date

Building Code Official's Acceptance:

Signature Date

Permit # -

AMEC Earth & Environmental
343 Gorham Road
South Portland, ME 04106
Phone: (207) 761-1770

Structural Statement of Special Inspections (Continued)

List of Inspection and Testing Agents

Agent	Firm	Contact Information
1. Structural Special Inspections Coordinator (SSIC)	AMEC Earth and Environmental	343 Gorham Road South Portland, ME 04106 Tel: 207-761-1770 Fax: 207-774-1246
2. Special Inspector (SI 1)	AMEC Earth and Environmental	343 Gorham Road South Portland, ME 04106 Tel: 207-761-1770 Fax: 207-774-1246
3. Special Inspector (SI 2)		
4. Testing Agency (TA 1)	R.W. Gillespie & Associates, Inc.	66 Industrial Park Road, Suite 4 Saco, Maine 04072 Tel: 207-286-8008 Fax: 207-286-2882
5. Testing Agency (TA 2)	HALEY & ALDRICH	75 Washington Avenue, Suite 203 Portland, ME 04101 Tel: 207.482.4626 Fax: 207.482.4676
6. Testing Agency (TA 3)		
7. Other (O1)		

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Structural Schedule of Special Inspections

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided to the Special Inspector for their records. *NOTE VERIFICATION THAT QUALIFIED INDIVIDUALS ARE AVAILABLE TO PERFORM STIPULATED TESTING AND/OR INSPECTION SHOULD BE PROVIDED PRIOR TO SUBMITTING STATEMENT. AGENT QUALIFICATIONS IN SCHEDULE ARE SUGGESTIONS ONLY; FINAL QUALIFICATIONS ARE SUBJECT TO THE DISCRETION OF THE REGISTERED DESIGN PROFESSIONAL PREPARING THE SCHEDULE.*

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge or Special Inspector of Record deems it appropriate that the individual performing a stipulated test or inspection have a specific certification, license or experience as indicated below, such requirement shall be listed below and shall be clearly identified within the schedule under the Agent Qualification Designation.

PE/SE	Structural Engineer – a licensed SE or PE specializing in the design of building structures
PE/GE	Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
EIT	Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

Experienced Testing Technician

ETT	Experienced Testing Technician – An Experienced Testing Technician with a minimum 5 years experience with the stipulated test or inspection

American Concrete Institute (ACI) Certification

ACI-CFTT	Concrete Field Testing Technician – Grade 1
ACI-CCI	Concrete Construction Inspector
ACI-LTT	Laboratory Testing Technician – Grade 1&2
ACI-STT	Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI	Certified Welding Inspector
AWS/AISC-SSI	Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT	Non-Destructive Testing Technician – Level II or III.

International Code Council (ICC) Certification

ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Prestressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT	Concrete Technician – Levels I, II, III & IV
NICET-ST	Soils Technician - Levels I, II, III & IV
NICET-GET	Geotechnical Engineering Technician - Levels I, II, III & IV

Other

Structural Schedule of Special Inspections

SOILS & FOUNDATION CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.7, 1704.8, 1704.9	Y/N	FREQUENCY: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Verify existing soil conditions, fill placement and load bearing requirements						
a. Prior to placement of prepared fill, determine that the site has been prepared in accordance with the approved soils report.	Y	P	IBC 1704.7.1	TA 2	PE/GE, EIT or ETT	Y
b. During placement and compaction of fill material, verify material being used and maximum lift thickness comply with the approved soils report.	Y	C	IBC 1704.7.2	TA 2	PE/GE, EIT or ETT	Y
c. Test in-place dry density of compacted fill complies with the approved soils report.	Y	p	IBC 1704.7.2	TA 1	PE/GE, EIT or ETT	Y

Structural Schedule of Special Inspections
CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.4	Y/N	FREQUENCY: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Inspection of reinforcing steel and placement	Y	P	ACI 318: 3.5, 7.1-7.7	SI 1	PE/SE or EIT	Y
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased	N	C	IBC 1912.5	N/A	PE/SE or EIT	Y
4. Verifying use of required design mix	Y	P	ACI 318: Ch 4, 5.2-5.4	SI 1	PE/SE or EIT	Y
5. At time fresh concrete is sampled to fabricate specimens for strength test, perform slump and air content test and temperature	Y	C	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	TA 1	ACI-CFTT or ACI-STT	Y
6. Inspection of concrete placement for proper application techniques	Y	P	ACI 318: 5.9, 5.10	SI 1	PE/SE or EIT	Y
7. Inspection for maintenance of specified curing temperature and techniques	Y	P	ACI 318: 5.11-5.13	SI 1	PE/SE or EIT	Y

Structural Schedule of Special Inspections

MASONRY CONSTRUCTION – LEVEL 1 (NON-ESSENTIAL FACILITY)

VERIFICATION AND INSPECTION IBC Section 1704.5	Y/N	FREQUENCY: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. As masonry construction begins, the following shall be verified to ensure compliance:						
a. Proportions of site-prepared mortar.	Y	P	ACI530.1, 2.6A	SI 1	PE/SE or EIT	Y
b. Construction of mortar joints.	Y	P	ACI530.1, 3.3B	SI 1	PE/SE or EIT	Y
c. Location of reinforcement and connectors.	Y	P	ACI530.1, 3.4, 3.6A	SI 1	PE/SE or EIT	Y
2. The inspection program shall verify:						
a. Size and location of structural elements.	Y	P	ACI530.1, 3.3G	SI 1	PE/SE or EIT	Y
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	Y	P	ACI530, 1.2.2(e), 2.1.4, 3.1.6	SI 1	PE/SE or EIT	Y
c. Specified size, grade and type of reinforcement.	Y	P	ACI530, 1.12, ACI530.1, 2.4, 3.4	SI 1	PE/SE or EIT	Y
d. Protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	Y	P	IBC 2104.3, 2104.4; ACI530.1, 1.8C, 1.8D	SI 1	PE/SE or EIT	Y
3. Prior to grouting, the following shall be verified to ensure compliance:						
a. Grout space is clean.	Y	P	ACI530.1, 3.2D	SI 1	PE/SE or EIT	Y
b. Placement of reinforcement and connectors and prestressing tendons and anchorages.	Y	P	ACI530, 1.12, ACI530.1, 3.4	SI 1	PE/SE or EIT	Y
c. Proportions of site-prepared grout	N	P	ACI530.1, 2.6B	N/A	PE/SE or EIT	N/A
d. Construction of mortar joints.	N	P	ACI530.1, 3.3B	N/A	PE/SE or EIT	N/A
4. Grout placement shall be verified to ensure compliance with code and construction document provisions.	Y	C	ACI530.1, 3.5	SI 1	PE/SE or EIT	Y
5. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	N	C	IBC 2105.2.2, 2105.3; ACI530.1, I.4	N/A	PE/SE or EIT	N/A
6. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	Y	P	ACI530.1, 1.5	SI 1	PE/SE or EIT	Y

Structural Schedule of Special Inspections - STEEL CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.3	Y/N	FREQUENCY: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Material verification of high-strength bolts, nuts and washers:						
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	Applicable ASTM material specifications; AISC 335, Section A3.4; AISC LRFD, Section A3.3	SI 1	PE/SE or EIT	Y
b. Manufacturer's certificate of compliance required.	Y	S		SI 1	PE/SE or EIT	Y
2. Inspection of high-strength bolting						
a. Bearing-type connections.	Y	P	AISC LRFD Section M2.5 IBC Sect 1704.3.3	TA 1	AWS/AISC-SSI	Y
b. Slip-critical connections.	N	C or P (method dependent)		N/A	AWS/AISC-SSI	N/A
3. Material verification of structural steel:						
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	ASTM A 6 or ASTM A 568	SI 1	PE/SE or EIT	Y
b. Manufacturers' certified mill test reports.	Y	S	ASTM A 6 or ASTM A 568	SI 1	PE/SE or EIT	Y
4. Material verification of weld filler materials:						
a. Identification markings to conform to AWS specification in the approved construction documents.	Y	P	AISC, ASD, Section A3.6; AISC LRFD, Section A3.5	SI 1	PE/SE or EIT	Y
b. Manufacturer's certificate of compliance required.	Y	S		SI 1	PE/SE or EIT	Y
5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.	Y	S	AWS D1.1	SI 1	PE/SE or EIT	Y
6. Inspection of welding (IBC 1704.3.1): a. Structural steel:						
1) Complete and partial penetration groove welds.	Y	C	AWS D1.1	TA 1	AWS-CWI	Y
2) Multipass fillet welds.	Y	C		TA 1	AWS-CWI	Y
3) Single-pass fillet welds> 5/16"	Y	C		TA 1	AWS-CWI	Y
4) Single-pass fillet welds< 5/16"	Y	P		TA 1	AWS-CWI	Y
5) Floor and deck welds.	Y	P	AWS D1.3	TA 1	AWS-CWI	Y
7. Inspection of steel frame joint details for compliance (IBC Sect 1704.3.2) with approved construction documents:						
a. Details such as bracing and stiffening.	Y	P		SI 1	PE/SE or EIT	Y
b. Member locations.	Y	P		SI 1	PE/SE or EIT	Y
c. Application of joint details at each connection.	Y	P		SI 1	PE/SE or EIT	Y

Structural Schedule of Special Inspection Services

FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

VERIFICATION AND INSPECTION IBC Section 1704.2	Y/N	FREQUENCY: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. -OR- 2. AISC Certification	Y	P & S S	Fabricator shall submit one of the two qualifications	SI 1	PE/SE or EIT	Y
3. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents.	Y	S	IBC 1704.2.2	SI 1	PE/SE or EIT	Y

Structural Schedule of Special Inspection Services

FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL GLUED LAMINATED TIMBER

VERIFICATION AND INSPECTION	Y/N	FREQUENCY: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Licensing of manufacturers. Manufacturer shall submit an AITC qualification compliance license to the building code official. AITC Licenses qualified laminators whose personnel procedures and facilities have complied with the requirements of ANSI/AITC A190.1.	.Y	S	Fabricator shall submit qualifications	SI 1	PE/SE or EIT	Y
2. Material verification of Structural Glued Laminated Timber beam materials per AITC						
a. Identification markings to conform to AITC 117 and standards specified in the approved construction documents.	Y	S	AITC 117	SI 1	PE/SE or EIT	Y
b. Verification that appearance grade conforms to standards specified in the approved construction documents and meets AITC 110 requirement.	Y	S	AITC 110	SI 1	PE/SE or EIT	Y
3. Inspection of structural glued laminated timber beams and decking for compliance with approved construction documents						
a. Size and location of structural elements	Y	P		SI 1	PE/SE or EIT	Y
b. Type, size and location of anchors/connections including other details of anchorage/connection of timber to structural members or other construction.	Y	P		SI 1	PE/SE or EIT	Y
c. Protection of members during shipping and field handling	Y	P	AITC 111	SI 1	PE/SE or EIT	Y

Structural Schedule of Special Inspections - WOOD CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.6	Y/N	FREQUENCY: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Inspection of high-load diaphragms at roof						
a. Verify wood structural panel sheathing for grade and thickness	Y	P	IBC 1704.6	SI 1	PE/SE or EIT	Y
b. Verify the nominal size of framing members at adjoining panel edges	Y	P	IBC 1704.6	SI 1	PE/SE or EIT	Y
c. Verify the nail diameter and length	Y	P	IBC 1704.6	SI 1	PE/SE or EIT	Y
d. Verify the number of fastener lines	Y	P	IBC 1704.6	SI 1	PE/SE or EIT	Y
e. Verify the spacing between fasteners in each line and at edge margins	Y	P	IBC 1704.6	SI 1	PE/SE or EIT	Y
f. Continuous special inspection during field gluing operations of elements	N	C	IBC 1702.3	N/A	PE/SE or EIT	N/A

Quality Assurance Plan – Seismic and Wind

QUALITY ASSURANCE FOR SEISMIC RESISTANCE CHECK LIST [IBC 1705]

Seismic Design Category	B

REQUIRED	NOT REQUIRED	NOT APPLICABLE	QUALITY ASSURANCE PLAN REQUIREMENTS (A Quality Assurance Plan is required where indicated below)
☐	☒	☐	In Seismic Design Categories A and B
☐	☐	☒	In Seismic Design Category C or greater

QUALITY ASSURANCE FOR WIND RESISTANCE CHECK LIST [IBC 1706]

Wind Exposure Category	C

REQUIRED	NOT REQUIRED	NOT APPLICABLE	QUALITY ASSURANCE PLAN REQUIREMENTS (A Quality Assurance Plan is required where indicated below)
☐	☐	☒	In wind exposure Categories A and B, where the 3-second-gust basic wind speed is 120 miles per hour (mph) (52.8 *m/sec)* or greater.
☐	☒	☐	In wind exposure Categories C and D, where the 3-second-gust basic wind speed is 110 mph (49 *m/sec)* or greater.

Prepared by:	
Signature	Date

Building Code Official's Acceptance:	
Signature	Date

Final Report of Special Inspections

Project: *PWM Jetport Terminal Enhancement*
Location: *1001 Westbrook Street*
Owner: *PWM Jetport*
Owner's Address: *1001 Westbrook Street, Portland, ME 04102*

Architect of Record: *William D. Hooper* (name) — *Gensler Architecture, Design & Planning Worldwide* (firm)

To the best of my information, knowledge and belief, the Special Inspections required for this project, and itemized in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved.

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,
Structural Registered Design Professional In Responsible Charge

Jeffrey D. Evans, PE
(Type or print name)

AMEC Earth & Environmental
(Firm Name)

Signature

9.8.11
Date

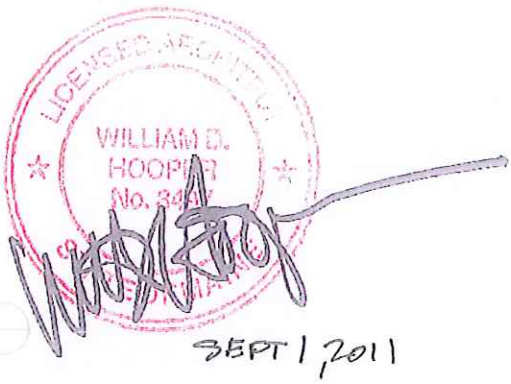
Licensed Professional Seal

AMEC Earth & Environmental
343 Gorham Road
South Portland, ME 04106
Phone: (207) 761-1770

CONSTRUCTION OBSERVATION REPORT

To the City of Portland Maine, Planning and Development Dept, Inspections Division:

I represent that I the Architect of Record, or a qualified representative of Gensler observed the construction work associated with **Portland International Jetport Terminal Enhancement, 1001 Westbrook Street, Portland, Maine** on intervals appropriate to the stage of construction, and that to the best of my knowledge, information and belief the work has been done in conformance with the permit and plans approved by the City of Portland Planning and Development Department and with the provisions of the International Building Code and all other pertinent laws and ordinances.



William D. Hooper, AIA — **3497**
ARCHITECT — MAINE. REG. NO.

Gensler
Company

2020 K Street NW Suite 200
Washington, DC 20006
Address

(202)721-5339
Telephone

September 1, 2011
Date

Construction Observation Dates:

I, or a qualified representative of Gensler under my supervision, made site observations at an interval consistent with the level of construction necessary from April 1, 2010 to August 31, 2011

CONSTRUCTION OBSERVATION REPORT

To the City of Portland Maine, Planning and Development Dept, Inspections Division:

I represent that I as the Electrical Engineer of Record, or a qualified representative of AMEC Earth & Environmental, Inc. observed the construction work associated with **Portland International Jetport Terminal Enhancement, 1001 Westbrook Street, Portland, Maine** on intervals appropriate to the stage of construction, and that to the best of my knowledge, information and belief the work has been done in conformance with the permit and plans approved by the City of Portland Planning and Development Department and with the provisions of the International Building Code and all other pertinent laws and ordinances.

Charles D. Ryan — **3869**
Engineer — MAINE. REG. NO.

AMEC Earth & Environmental, Inc.
Company

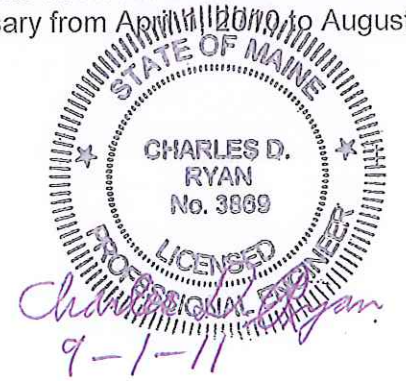
343 Gorham Road
South Portland, Maine 04106
Address

(207) 761-1770
Telephone

September 1, 2011
Date

Construction Observation Dates:

I, or a qualified representative of AMEC Earth & Environmental, Inc. under my supervision, made site observation at an interval consistent with the level of construction necessary from April 1, 2010 to August 31, 2011

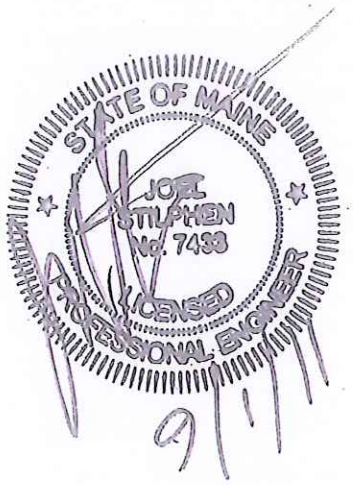


Charles D. Ryan
9-1-11

CONSTRUCTION OBSERVATION REPORT

To the City of Portland Maine, Planning and Development Dept, Inspections Division:

I represent that I as the Plumbing Engineer of Record, or a qualified representative of AMEC Earth & Environmental, Inc. observed the construction work associated with **Portland International Jetport Terminal Enhancement, 1001 Westbrook Street, Portland, Maine** on intervals appropriate to the stage of construction, and that to the best of my knowledge, information and belief the work has been done in conformance with the permit and plans approved by the City of Portland Planning and Development Department and with the provisions of the International Building Code and all other pertinent laws and ordinances.



Joel Stilphen — PLUMBING ENGINEER

7433 — MAINE. REG. NO.

AMEC Earth & Environmental, Inc.
Company

343 Gorham Road
South Portland, Maine 04106
Address

(207) 761-1770
Telephone

September 1, 2011
Date

Construction Observation Dates:

I, or a qualified representative of AMEC Earth & Environmental, Inc. under my supervision, made site observation at an interval consistent with the level of construction necessary from April 1, 2010 to August 31, 2011

CONSTRUCTION OBSERVATION REPORT

To the City of Portland Maine, Planning and Development Dept, Inspections Division:

I represent that I as the HVAC Engineer of Record, or a qualified representative of AMEC Earth & Environmental, Inc. observed the construction work associated with **Portland International Jetport Terminal Enhancement, 1001 Westbrook Street, Portland, Maine** on intervals appropriate to the stage of construction, and that to the best of my knowledge, information and belief the work has been done in conformance with the permit and plans approved by the City of Portland Planning and Development Department and with the provisions of the International Building Code and all other pertinent laws and ordinances.

Robert H. Brown — **4602**
HVAC ENGINEER — MAINE. REG. NO.

AMEC Earth & Environmental, Inc.
Company

343 Gorham Road
South Portland, Maine 04106
Address

(207) 761-1770
Telephone

September 1, 2011
Date

Construction Observation Dates:

I, or a qualified representative of AMEC Earth & Environmental, Inc. under my supervision, made site observation at an interval consistent with the level of construction necessary from April 1, 2010 to August 31, 2011

CONSTRUCTION OBSERVATION REPORT

To the City of Portland Maine, Planning and Development Dept, Inspections Division:

I represent that I the Engineer of Record for the sprinkler system, or a qualified representative of Fire Risk Management, Inc. observed the construction work associated with Portland International Jetport Terminal Enhancement, 1001 Westbrook Street, Portland, Maine on intervals appropriate to the stage of construction, and that to the best of my knowledge, information and belief the work has been completed in conformance the provisions of the International Building Code and all other pertinent City of Portland laws and ordinances.

Sean K. Duffy, P.E. — 11852
PROFESSIONAL ENGINEER — MAINE. REG. NO.

Fire Risk Management, Inc.
Company

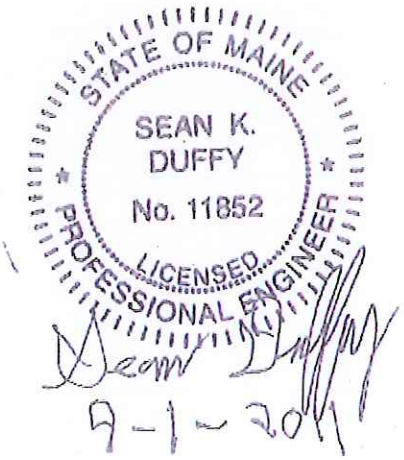
1 Front Street, Second Floor
Bath, ME 04530
Address

(207) 442-7200
Telephone

September 1, 2011
Date

Construction Observation Dates:

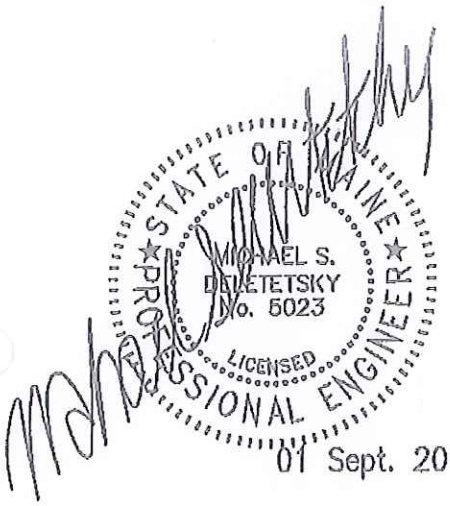
I, or a qualified representative of Fire Risk Management, Inc. under my supervision, made site observation at an interval consistent with the level of construction necessary from April 1, 2010 to August 31, 2011



CONSTRUCTION OBSERVATION REPORT

To the City of Portland Maine, Planning and Development Dept, Inspections Division:

I represent that I as the Civil Engineer of Record, or a qualified representative of AMEC Earth & Environmental, Inc. observed the construction work associated with **Portland International Jetport Terminal Enhancement, 1001 Westbrook Street, Portland, Maine** on intervals appropriate to the stage of construction, and that to the best of my knowledge, information and belief the work has been done in conformance with the permit and plans approved by the City of Portland Planning and Development Department and with the provisions of the International Building Code and all other pertinent laws and ordinances.



Michael S. Deletetsky — **5032**
CIVIL ENGINEER — MAINE. REG. NO.

AMEC Earth & Environmental, Inc.
Company

343 Gorham Road
South Portland, Maine 04106
Address

(207) 761-1770
Telephone

September 1, 2011
Date

Construction Observation Dates:

I, or a qualified representative of AMEC Earth & Environmental, Inc. under my supervision, made site observation at an interval consistent with the level of construction necessary from April 1, 2010 to August 31, 2011

R. W. Gillespie & Associates, Inc.
Geotechnical Engineering • Geohydrology • Materials Testing Services

31 August 2011

Cuyler Feagles, AIA
City of Portland, Portland International Jetport
1001 Westbrook Street
Portland, Maine 04102

Subject: Summary Report of Special Inspections
Terminal Enhancement, Portland International Jetport
Portland, Maine
RWG&A Project No. 557-14

Dear Mr. Feagles:

As requested, a summary report of special inspections has been prepared for your use. Subsequent paragraphs in this letter, which also serves as part of the report, present a general scope of services outline, items of clarification with respect to certain services, and references to appendices containing the report and test results.

Our scope of services included the following tasks for the Terminal Enhancement project:

Soils Testing: Our construction technology staff conducted in-place density tests of backfill placed against foundations, above utilities and subbase and base course materials placed to support roadways using nuclear methods in accordance with ASTM D6938. The RWG&A materials testing laboratory provided support services in the form of gradation and moisture-density relationship testing. Soil lab test results can be found in Appendix G. Results were provided verbally to Gorham Sand & Gravel or Turner Construction Company and summarized on a weekly basis. Copies were sent to the concerned parties as directed by you.

Concrete Testing: Testing of portland cement concrete included field and laboratory testing. Field tests included slump, entrained air content, unit weight and temperature. Four specimens were typically cast for compressive strength testing in the laboratory. Parameters observed to be outside specification limits were reported to on-site representatives from AMEC and Turner Construction Company. Compressive strength was typically determined in the laboratory at 7 (1 cyl.) and 28 days (2 cyl.). A fourth cylinder was held for testing at 56 days, if needed. Reports were sent within a day or two of the laboratory test and included all field data; see Appendix B.

Floor Flatness Testing: Floor flatness testing was performed by RWG&A's subconsultant F-Number Testing of New Ipswich, New Hampshire. Floor flatness testing was performed in accordance with ASTM 1155-96 and ACI 117 using the Dipstick Auto Read Profiler. Test results were verbally reported to Turner Construction Company's onsite representative and a formal written report was issued soon after; see Appendix C.

Structural Steel: Visual inspections were performed by an RWG&A Certified Welding Inspector (CWI), and all non-destructive testing was performed by an ANSI Level II NDT inspector. These services were in accordance with the project specifications and AWS D1.1-2006 "Structural Welding Code - Steel". Bolted connections were inspected in accordance with the project specifications and AISC-ASD 9th ed. part 5; see Appendix D. On occasion, when RWG&A's CWI inspector was not available, our subconsultant UTS of Massachusetts performed inspections.

Fireproofing: An RWG&A senior construction technologist made thickness measurements at prescribed intervals, and obtained samples for unit weight testing of spray-applied fire resistant material. Adhesion/cohesion strength was also checked in the field. Test results were forwarded as soon as lab tests were complete.

Curtain Wall Testing: RWG&A's subconsultant Architectural Testing, Inc. (ATI) of Chelmsford, Massachusetts perform water penetration and spray nozzle tests at selected locations of the curtain walls at the subject project. Tests were performed in accordance with AAMA 501.2-03, AAMA 503-92, ASTM E 1105-00. Curtain wall testing was witnessed by representatives from Turner Construction Company, AMEC, Gensler, and RWG&A. Formal written reports were issued soon after field tests were complete; see Appendix F.

Bituminous Pavement Testing: During paving operations, an RWG&A construction technologist observed laydown thicknesses, measured mix temperatures, and obtained samples for theoretical maximum density (TMD) testing. Following compaction of the mix, in-place densities were obtained using a pavement quality indicator (PQI) for comparison to the TMD. In-place density of the pavement was verified by determining the density of 6-inch cut cores. Test results were forwarded soon after lab testing was complete; see Appendices A and G.

RWG&A was also requested to perform materials testing services for the Johnson Road/Turnpike Connector/Turnpike Northbound Ramp Improvements project. It is RWG&A's understanding that these improvements were part of the Jetport Terminal Expansion project. Services include in-place density testing of embankment fill and roadway subbase/base course material along with bituminous pavement testing. Test results can be found in Appendix H.

Test results and associate reports were reviewed during the construction process and were sent to the City of Portland and other project team members on a regular basis. The attached appendices include pertinent information including:

- Appendix A - In-Place Density of Soils and Bituminous Pavement
- Appendix B - Concrete
- Appendix C - Floor Flatness
- Appendix D - Structural Steel
- Appendix E - Fireproofing
- Appendix F - Curtain Walls
- Appendix G - Lab Test Results - Soils and Bituminous Pavement
- Appendix H - Johnson Road/Turnpike Connector/Turnpike Northbound Ramp Improvements, In-Place Density and Lab Test Results

During construction, occasional in-place density of soils were below the required density, but were re-compacted the same day to meet specifications. Another item of note is that two out of eighteen floor slabs tested for floor flatness varied slightly from the required FF value of 40. Slab #2 had a value of 33.73 and Slab #12 had a value of 39.38. It is our understanding that there were no exceptions taken to the variances. A final item of note is that the subbase gravel used for the Johnson Road/Turnpike Connector/Turnpike Northbound Ramp Improvements project was slightly out of specification on the #200 sieve. The requirement is 0 to 7 percent on the #200 sieve and the result was 7.4 percent. The civil designer from AMEC was informed of the result and exception was not taken to the use of the material.

Other than the noted items, our review of the results and daily reports indicate the work for which RWG&A had observed and tested were completed in general accordance with the projects plans and specifications.

If you have any questions or we may be of further assistance please contact us.

Very truly yours,
R. W. GILLESPIE & ASSOCIATES, INC.

Matthew T. Grady, P.E.
Manager, Material Testing Services

Charles R. Nickerson, P.E.
CEO/President

STATE OF MAINE
CHARLES R. NICKERSON
No. 5104
LICENSED PROFESSIONAL ENGINEER
31 Aug. '11

MTG/CRN:md

G:\PROJECTS\0500\0557\557-014\Reports\2011-08-31 Summary Report of Special Inspections 0557-014.wpd

2. Elevator/Escalator

Certificates

STATE OF MAINE
DEPARTMENT OF PROFESSIONAL
AND FINANCIAL REGULATION
OFFICE OF LICENSING & REGISTRATION
BOARD OF ELEVATOR AND TRAMWAY SAFETY
35 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0035

Paul R. LePage
Governor

INTERIM ELEVATOR CERTIFICATE

Anne L. Head
Director

Name of Owner: City of Portland		Registration # EL-36984
Physical Location: Portland Jetport (GEN #4)		
Capacity:5000 lbs	Speed: 100 fpm	Type: Passenger
Issue Date: 9/7/11	Expiration Date: 11/7/11	

The initial acceptance inspection has been completed on your elevator. The elevator may be operated for 60 days (note Expiration Date above). Place this certificate in the Certificate holder. When the permanent Certificate of Operation arrives, replace this certificate with the Certificate of Operation.

Board Clerk: Vickey Gray
To report an accident involving this elevator, call: 1-888-580-5754
To speak with Board Staff regarding this elevator, call: 207/624-8672

Revised: 8/07

STATE OF MAINE
DEPARTMENT OF PROFESSIONAL
AND FINANCIAL REGULATION
OFFICE OF LICENSING & REGISTRATION
BOARD OF ELEVATOR AND TRAMWAY SAFETY
35 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0035

Paul R. LePage
Governor

Anne L. Head
Director

INTERIM ELEVATOR CERTIFICATE

Name of Owner: City of Portland		Registration # EL-36985
Physical Location: Portland Jetport (GEN #5)		
Capacity:5000 lbs	Speed: 100 fpm	Type: Passenger
Issue Date: 9/7/11	Expiration Date: 11/7/11	

The initial acceptance inspection has been completed on your elevator. The elevator may be operated for 60 days (note Expiration Date above). Place this certificate in the Certificate holder. When the permanent Certificate of Operation arrives, replace this certificate with the Certificate of Operation.

Board Clerk: Vickey Gray
To report an accident involving this elevator, call: 1-888-580-5754
To speak with Board Staff regarding this elevator, call: 207/624-8672

Revised: 8/07

STATE OF MAINE
DEPARTMENT OF PROFESSIONAL
AND FINANCIAL REGULATION
OFFICE OF LICENSING & REGISTRATION
BOARD OF ELEVATOR AND TRAMWAY SAFETY
35 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0035

Paul R. LePage
Governor

INTERIM ELEVATOR CERTIFICATE

Anne L. Head
Director

Name of Owner: City of Portland		Registration # EL-36986
Physical Location: Portland Jetport (GEN #6)		
Capacity:5000 lbs	Speed: 100 fpm	Type: Passenger
Issue Date: 9/7/11	Expiration Date: 11/7/11	

The initial acceptance inspection has been completed on your elevator. The elevator may be operated for 60 days (note Expiration Date above). Place this certificate in the Certificate holder. When the permanent Certificate of Operation arrives, replace this certificate with the Certificate of Operation.

Board Clerk: Vickey Gray
To report an accident involving this elevator, call: 1-888-580-5754
To speak with Board Staff regarding this elevator, call: 207/624-8672

Revised: 8/07

STATE OF MAINE
DEPARTMENT OF PROFESSIONAL
AND FINANCIAL REGULATION
OFFICE OF LICENSING & REGISTRATION
BOARD OF ELEVATOR AND TRAMWAY SAFETY
35 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0035

Paul R. LePage
Governor

INTERIM ELEVATOR CERTIFICATE

Anne L. Head
Director

Name of Owner: City of Portland		Registration # EL-36987
Physical Location: Portland Jetport (GEN #7)		
Capacity:5000 lbs	Speed: 100 fpm	Type: Passenger
Issue Date: 9/7/11	Expiration Date: 11/7/11	

The initial acceptance inspection has been completed on your elevator. The elevator may be operated for 60 days (note Expiration Date above). Place this certificate in the Certificate holder. When the permanent Certificate of Operation arrives, replace this certificate with the Certificate of Operation.

Board Clerk: Vickey Gray
To report an accident involving this elevator, call: 1-888-580-5754
To speak with Board Staff regarding this elevator, call: 207/624-8672

Revised: 8/07

STATE OF MAINE
DEPARTMENT OF PROFESSIONAL
AND FINANCIAL REGULATION
OFFICE OF LICENSING & REGISTRATION
BOARD OF ELEVATOR AND TRAMWAY SAFETY
35 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0035

Paul R. LePage
Governor

Anne L. Head
Director

INTERIM ELEVATOR CERTIFICATE

Name of Owner: City of Portland		Registration # EL-36989
Physical Location: Portland Jetport (GEN #8)		
Capacity:5000 lbs	Speed: 200 fpm	Type: Passenger
Issue Date: 9/7/11	Expiration Date: 11/7/11	

The initial acceptance inspection has been completed on your elevator. The elevator may be operated for 60 days (note Expiration Date above). Place this certificate in the Certificate holder. When the permanent Certificate of Operation arrives, replace this certificate with the Certificate of Operation.

Board Clerk: Vickey Gray
To report an accident involving this elevator, call: 1-888-580-5754
To speak with Board Staff regarding this elevator, call: 207/624-8672

Revised: 8/07

3. Simplex Fire Alarm

Certificates

FIRE ALARM AND EMERGENCY COMMUNICATION SYSTEM INSPECTION AND TESTING FORM

To be completed by the system inspector or tester at the time of the inspection or test.
It shall be permitted to modify this form as needed to provide a more complete and/or clear record.
Insert N/A in all unused lines.
Attach additional sheets, data, or calculations as necessary to provide a complete record.

Date of this inspection or test: 8-22-11 Thru 9-8-11 Time of inspection or test: all day

1. PROPERTY INFORMATION

Name of property: Portland Jetport

Address:

Description of property: Steel and concreate fully sprinkled

Occupancy type: Airport

Name of property representative:

Address: Same

Phone: Fax: E-mail:

Authority having jurisdiction over this property: PFD

Phone: 207-874-8517 Fax: E-mail:

2. INSTALLATION, SERVICE, AND TESTING CONTRACTOR INFORMATION

Service and/or testing organization for this equipment: SimplexGrinnell LP

Address: 20 Thomass dr Westbrook Maine

Phone: 842-6440 Fax: E-mail:

Service technician or tester: John Hale

Qualifications of technician or tester: SimplexGrinnell LP, MS60019217

A contract for test and inspection in accordance with NFPA standards is in effect as of:

The contract expires: Contract number: Frequency of tests and inspections: 6 month

Monitoring organization for this equipment: PFD Dispatch

A contract for test and inspection in accordance with NFPA standards is in effect as of:

Address:

Phone: Fax: E-mail:

Entity to which alarms are retransmitted: Phone:

3. TYPE OF SYSTEM OR SERVICE

☐ Fire alarm system (nonvoice)

☒ Fire alarm with in-building fire emergency voice alarm communication system (EVACS)

☐ Mass notification system (MNS)

☐ Combination system, with the following components:

☐ Fire alarm ☐ EVACS ☐ MNS ☐ Two-way, in-building, emergency communication system

☐ Other (specify):

3. TYPE OF SYSTEM OR SERVICE *(continued)*

NFPA 72 edition: 2010 Additional description of system(s):

3.1 Control Unit

Manufacturer: SimplexGrinnell LP Model number: 4100ES

3.2 Mass Notification System ☒ This system does not incorporate an MNS

3.2.1 System Type:

☐ In-building MNS—combination

☐ In-building MNS—stand-alone ☐ Wide-area MNS ☐ Distributed recipient MNS

☐ Other (specify):

3.2.2 System Features:

☐ Combination fire alarm/MNS ☐ MNS ACU only ☐ Wide-area MNS to regional national alerting interface

☐ Local operating console (LOC) ☐ Direct recipient MNS (DRMNS) ☐ Wide-area MNS to DRMNS interface

☐ Wide-area MNS to high-power speaker array (HPSA) interface ☐ In-building MNS to wide-area MNS interface

☐ Other (specify):

3.3 System Documentation

☒ An owner's manual, a copy of the manufacturer's instructions, a written sequence of operation, and a copy of the record record drawings are stored on site. Location: Fire Alarm Doc Box

3.4 System Software ☒ This system does not have alterable site-specific software.

Software revision number: 1.01.02 Rev 80 Software last updated on: 9-8-11

☒ A copy of the site-specific software is stored on site. Location: Fire Alarm Doc Box

4. SYSTEM POWER

4.1 Control Unit

4.1.1 Primary Power

Input voltage of control panel: 120 Control panel amps: 16

4.1.2 Engine-Driven Generator ☐ This system does not have a generator.

Location of generator: GENERATOR RM #3517

Location of fuel storage: UNDERGROUND STORAGE TANK Type of fuel: DIESEL

4.1.3 Uninterruptible Power System ☒ This system does not have UPS.

Equipment powered by a UPS system:

Location of UPS system:

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours): In alarm mode (minutes):

4. SYSTEM POWER *(continued)*

4.1.4 Batteries

Location: panel Type: SLA Nominal voltage: 24 Amp/hour rating: 75 AH

Calculated capacity of batteries to drive the system:

In standby mode (hours): 57.6 In alarm mode (minutes): 15

☒ Batteries are marked with date of manufacture.

4.2 In-Building Fire Emergency Voice Alarm Communication System or Mass Notification System

☐ This system does not have an EVACS or MNS.

4.2.1 Primary Power

Input voltage of EVACS or MNS panel: EVACS or MNS panel amps:

4.2.2 Engine-Driven Generator

☐ This system does not have a generator.

Location of generator: GENERATOR ROOM #3517

Location of fuel storage: UNDERGROUND STORAGE TANK Type of fuel: DIESEL

4.2.3 Uninterruptible Power System

☒ This system does not have a UPS.

Equipment powered by a UPS system:

Location of UPS system:

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours): In alarm mode (minutes):

4.2.4 Batteries

Location: Type: Nominal voltage: Amp/hour rating:

Calculated capacity of batteries to drive the system:

In standby mode (hours): In alarm mode (minutes):

☐ Batteries are marked with date of manufacture.

4.3 Notification Appliance Power Extender Panels

☐ This system does not have power extender panels.

4.3.1 Primary Power

Input voltage of power extender panel(s): 120 Power extender panel amps: 12

4.3.2 Engine-Driven Generator

☐ This system does not have a generator.

Location of generator: GENERATOR ROOM #3517

Location of fuel storage: UNDERGROUND STORAGE TANK Type of fuel: DIESEL

4.3.3 Uninterruptible Power System

☒ This system does not have a UPS.

Equipment powered by a UPS system:

Location of UPS system:

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours): In alarm mode (minutes):

4. SYSTEM POWER *(continued)*

4.3.4 Batteries

Location: Transponder Panels Type: SLA Nominal voltage: 24 Amp/hour rating: 33 AH

Calculated capacity of batteries to drive the system:

In standby mode (hours): 24 In alarm mode (minutes): 15

☐ Batteries are marked with date of manufacture.

5. ANNUNCIATORS

☐ This system does not have annunciators.

5.1 Location and Description of Annunciators

Annunciator 1: West Building b y Escillators

Annunciator 2: East Building By Down Escillator

Annunciator 3:

6. NOTIFICATIONS MADE PRIOR TO TESTING

Monitoring organization	Contact:	PFD	Time:
Building management	Contact:	Comm Center	Time:
Building occupants	Contact:	ARF Building	Time:
Authority having jurisdiction	Contact:		Time:
Other, if required	Contact:		Time:

7. TESTING RESULTS

7.1 Control Unit and Related Equipment

Description	Visual Inspection	Functional Test	Comments
Control unit	☒	☒	
Lamps/LEDs/LCDs	☒	☒	
Fuses	☒	☐	
Trouble signals	☒	☒	
Disconnect switches	☒	☒	
Ground-fault monitoring	☒	☒	
Supervision	☒	☒	
Local annunciator	☒	☒	
Remote annunciators	☒	☒	
Power extender panels	☒	☒	
Isolation modules	☒	☒	
Other (specify)	☐	☐	

7. TESTING RESULTS *(continued)*

7.2 Control Unit Power Supplies

Description	Visual Inspection	Functional Test	Comments
120-volt power	☒	☒	
Generator or UPS	☐	☐	
Battery condition	☒	☒	
Load voltage	☒	☒	
Discharge test	☐	☐	
Charger test	☐	☐	
Other (specify)	☐	☐	

7.3 In-Building Fire Emergency Voice Alarm Communications Equipment

Description	Visual Inspection	Functional Test	Comments
Control unit	☒	☒	
Lamps/LEDs/LCDs	☒	☒	
Fuses	☒	☐	
Primary power supply	☒	☒	
Secondary power supply	☒	☒	
Trouble signals	☒	☒	
Disconnect switches	☐	☐	
Ground-fault monitoring	☒	☒	
Panel supervision	☒	☒	
System performance	☒	☒	
Sound pressure levels Occupied ☐ Yes ☐ No Ambient dBA Alarm dBA (attach report with locations, values, and weather conditions)	☒	☐	
System intelligibility ☐ CSI ☐ STI (attach report with locations, values, and weather conditions)	☐	☐	
Other (specify)	☐	☐	

7. TESTING RESULTS *(continued)*

7.4 Notification Appliance Power Extender Panels

Description	Visual Inspection	Functional Test	Comments
Lamps/LEDs/LCDs	☒	☒	
Fuses	☒	☐	
Primary power supply	☒	☒	
Secondary power supply	☒	☒	
Trouble signals	☒	☒	
Ground-fault monitoring	☒	☒	
Panel supervision	☒	☒	
Other (specify)	☐	☐	

7.5 Mass Notification Equipment

Description	Visual Inspection	Functional Test	Comments
Functional test	☐	☐	
Reset/power down test	☐	☐	
Fuses	☐	☐	
Primary power supply	☐	☐	
UPS power test	☐	☐	
Trouble signals	☐	☐	
Disconnect switches	☐	☐	
Ground-fault monitoring	☐	☐	
CCU security mechanism	☐	☐	
Prerecorded message content	☐	☐	
Prerecorded message activation	☐	☐	
Software backup performed	☐	☐	
Test backup software	☐	☐	
Fire alarm to MNS interface	☐	☐	
MNS to fire alarm interface	☐	☐	
In-building MNS to wide-area MNS	☐	☐	

7. TESTING RESULTS *(continued)*

7.5 Mass Notification Equipment *(continued)*

Description	Visual Inspection	Functional Test	Comments
MNS to direct recipient MNS	☐	☐	
Sound pressure levels Occupied ☐ Yes ☐ No Ambient dBA Alarm dBA (attach report with locations, values, and weather conditions)	☐	☐	
System intelligibility ☐ CSI ☐ STI (attach report with locations, values, and weather conditions)	☐	☐	
Other (specify)	☐	☐	

7.6 Two-Way Communications Equipment

Description	Visual Inspection	Functional Test	Comments
Phone handsets	☒	☒	
Phone jacks	☒	☒	
Off-hook indicator	☒	☒	
Call-in signal	☒	☒	
System performance	☒	☒	
System audibility	☒	☒	
System intelligibility	☒	☒	
Radio communications enhancement system	☐	☐	
Area of refuge communication system	☐	☐	
Elevator emergency communications system	☐	☐	
Other (specify)	☐	☐	

7. TESTING RESULTS *(continued)*

7.7 Combination Systems

Description	Visual Inspection	Functional Test	Comments
Fire extinguishing monitoring devices/system	☐	☐	
Carbon monoxide detector/system	☐	☐	
Combination fire/security system	☐	☐	
Other (specify)	☐	☐	

7.8 Special Hazard Systems

Description (specify)	Visual Inspection	Functional Test	Comments
	☐	☐	
	☐	☐	
	☐	☐	

7.9 Emergency Communications System

☐ Visual

☐ Functional

☐ Simulated operation

☐ Ensure predischarge notification appliances of special hazard systems are not overridden by the MNS. See *NFPA 72*, 24.4.1.7.1.

7.10 Monitored Systems

Description (specify)	Visual Inspection	Functional Test	Comments
Engine-driven generator	☐	☐	
Fire pump	☐	☐	
Special suppression systems	☐	☐	
Other (specify)	☐	☐	

7. TESTING RESULTS *(continued)*

7.11 Auxiliary Functions

Description	Visual Inspection	Functional Test	Comments
Door-releasing devices	☒	☒	
Fan shutdown	☒	☒	
Smoke management/smoke control	☒	☒	
Smoke damper operation	☐	☐	
Smoke shutter release	☐	☐	
Door unlocking	☒	☒	
Elevator recall	☒	☒	
Elevator shunt trip	☒	☒	
MNS override of FA signals	☐	☐	
Other (specify)	☐	☐	

7.12 Alarm Initiating Device

☒ Device test results sheet attached listing all devices tested and the results of the testing

7.13 Supervisory Alarm Initiating Device

☒ Device test results sheet attached listing all devices tested and the results of the testing

7.14 Alarm Notification Appliances

☒ Appliance test results sheet attached listing all appliances tested and the results of the testing

7.15 Supervisory Station Monitoring

Description	Visual Inspection	Functional Test	Time	Comments
Alarm signal	☒	☒		
Alarm restoration	☒	☒		
Trouble signal	☐	☐		
Trouble restoration	☐	☐		
Supervisory signal	☐	☐		
Supervisory restoration	☐	☐		

8. NOTIFICATIONS THAT TESTING IS COMPLETE

Monitoring organization	Contact:	PFD	Time:
Building management	Contact:		Time:
Building occupants	Contact:		Time:
Authority having jurisdiction	Contact:		Time:
Other, if required	Contact:		Time:

9. SYSTEM RESTORED TO NORMAL OPERATION

Date: 9-9-11 Time: 1200

10. CERTIFICATION

10.1 Inspector Certification:

This system, as specified herein, has been inspected and tested according to all NFPA standards cited herein.

Signed: [signature] Printed name: John Hale Date: 9-9-2011

Organization: SimplexGrinnell LP Title: TR Phone: 842-6440

10.2 Acceptance by Owner or Owner's Representative:

The undersigned has a service contract for this system in effect as of the date shown below.

Signed: R S Williams Printed name: ROY WILLIAMS Date: 9.13.2011

Organization: PORTLAND INT. JETPORT Title: DEP. DIRECTOR Phone: 207 756 8026

DEVICE TEST RESULTS

(Attach additional sheets if required)

Device Type	Address	Location	Test Results
			See Attached Sheets For Results

Point Name	Device Type	Point Type	Custom Label Description	Test	Date	Remarks
M1-1-0	UNUSED		LVL 1 WEST SPRINKLER ZN RM M1-1	UNUSED		
M1-2-0	UNUSED			UNUSED		
M1-3-0	UNUSED		LVL 1 WEST BY RM 1500E M1-3	UNUSED		
M1-4-0	UNUSED			UNUSED		
M1-5-0	UNUSED			UNUSED		
M1-6-0	UNUSED		LVL 1 WEST RM 1501A M1-6	UNUSED		
M1-7-0	UNUSED		LVL 1 WEST OUTBOUND BAGGAGE M1-7	UNUSED		
M1-8-0	UNUSED		LVL 1 WEST BY OUTBOUND BAGGAGE M1-8	UNUSED		
M1-9-0	UNUSED		LVL 1 BAGG HDLG FIRE DR MONITOR M1-9	UNUSED		
M1-10-0	RIAM	RELAY	LVL 1 BG12 FIREFLY FIRE SHUTTER M1-10	PASS	9/2/2011	
M1-11-0	RIAM	DHOLDER	LVL 1 WEST RM 1509A M1-11	PASS	9/7/2011	
M1-12-0	UNUSED		LVL 1 WEST ETD RM 1509 M1-12	UNUSED		
M1-13-0	UNUSED		LVL 1 WEST ETD RM 1509 M1-13	UNUSED		
M1-14-0	UNUSED		LVL 1 WEST ETD RM 1509 M1-14	UNUSED		
M1-15-0	UNUSED		LVL 1 WEST ETD RM 1509 M1-15	UNUSED		
M1-16-0	RIAM	RELAY	LVL 1 WEST FIRE SHUTTER BG10 M1-16	PASS	9/2/2011	Door will not close if photo eye is blocked after 10 sec. because of BHS. Doors are provided with a fusible link to close door in this case.
M1-17-0	RIAM	RELAY	LVL 1 WEST FIRE SHUTTER BG3 M1-17	PASS	9/2/2011	Door will not close if photo eye is blocked after 10 sec. because of BHS. Doors are provided with a fusible link to close door in this case.
M1-18-0	RIAM	RELAY	LVL 1 WEST FIRE SHUTTER BG14 M1-18	PASS	9/2/2011	Door will not close if photo eye is blocked after 10 sec. because of BHS. Doors are provided with a fusible link to close door in this case.
M1-19-0	RIAM	RELAY	LVL 1 WEST FIRE SHUTTER BG13 M1-19	PASS	9/2/2011	Door will not close if photo eye is blocked after 10 sec. because of BHS. Doors are provided with a fusible link to close door in this case.
M1-20-0	UNUSED			UNUSED		
M1-21-0	UNUSED			UNUSED		
M1-22-0	UNUSED			UNUSED		
M1-23-0	UNUSED			UNUSED		
M1-24-0	UNUSED			UNUSED		
M1-25-0	UNUSED			UNUSED		
M1-26-0	UNUSED			UNUSED		
M1-27-0	UNUSED			UNUSED		
M1-28-0	UNUSED			UNUSED		
M1-29-0	UNUSED		LVL 1 WEST BAGG HDLG FIRE DR MON M1-29	UNUSED		
M1-30-0	UNUSED			UNUSED		
M1-31-0	UNUSED		LVL 1 WEST BAGG HDLG FIRE DR MON M1-31	UNUSED		
M1-32-0	UNUSED			UNUSED		
M1-33-0	UNUSED		LVL 1 WEST BAGG HDLG FIRE DR MON M1-33	UNUSED		
M1-34-0	UNUSED			UNUSED		
M1-35-0	UNUSED		LVL 1 WEST ETD RM 1509 M1-35	UNUSED		
M1-36-0	UNUSED		LVL 1 WEST ETD RM 1509 M1-36	UNUSED		
M1-37-0	UNUSED		LVL 1 WEST ETD RM 1509 M1-37	UNUSED		
M1-38-0	UNUSED		LVL 1 WEST ETD RM 1509 M1-38	UNUSED		
M1-39-0	UNUSED		LVL 1 WEST ETD RM 1509 M1-39	UNUSED		
M1-40-0	UNUSED		LVL 1 WEST ETD RM 1509 M1-40	UNUSED		
M1-41-0	ADRPUL	PULL	LVL 1 WEST BY DOOR 1503B M1-41	PASS	8/26/2011	
M1-42-0	RIAM	DHOLDER	LVL 1 WEST RM 1503B M1-42	PASS	9/2/2011	
M1-43-0	RIAM	DHOLDER	LVL 1 WEST RM 1503A M1-43	PASS	9/2/2011	
M1-44-0	UNUSED			UNUSED		
M1-45-0	UNUSED			UNUSED		
M1-46-0	UNUSED			UNUSED		
M1-47-0	UNUSED			UNUSED		
M1-48-0	UNUSED			UNUSED		
M1-49-0	UNUSED			UNUSED		
M1-50-0	PHOTO	VSMOKE	LVL 1 WEST IDF RM 1512 M1-50	PASS	8/26/2011	
M1-51-0	TRIAM	UTILITY	LVL 1 WST FIRE SHUTTER FS 4&5 M1-51	PASS	9/2/2011	
M1-51-1	MRELAY	RELAY	LVL 1 WST FIRE SHUTTER FS 4&5 M1-51	PASS	9/2/2011	
M1-51-2	MTSENSE	FIRE		UNUSED		
M1-52-0	UNUSED			UNUSED		
M1-53-0	UNUSED		LVL 1 WEST FIRE SHUTTER 5 M1-53	UNUSED		
M1-54-0	UNUSED		LVL 1 WEST FIRE SHUTTER 5 M1-54	UNUSED		
M1-55-0	PHOTO	VSMOKE	LVL 1 WEST FIRE SHUTTER 4 M1-55	PASS	8/26/2011	
M1-56-0	PHOTO	VSMOKE	LVL 1 WEST FIRE SHUTTER 4 M1-56	PASS	8/26/2011	
M1-57-0	UNUSED		LVL 1 WST FIRE DR STR 1490B MON M1-57	UNUSED		
M1-58-0	UNUSED		LVL 1 WEST ELEV 4&5 PIT M1-58	UNUSED		
M1-59-0	IAM	WSO	LVL1 WST ZN1-4 ELV4&5 MCH TS10FL7 M1-59	PASS	8/29/2011	
M1-60-0	UNUSED			UNUSED		
M1-61-0	ADRPUL	PULL	LVL 1 WEST BY DOOR 1510G M1-61	PASS	8/26/2011	
M1-62-0	HEAT	HEAT	LVL 1 WEST ELEV 4&5 MACH RM M1-62	PASS	8/23/2011	
M1-63-0	PHOTO	VSMOKE	LVL 1 WEST ELEV 4&5 MACH RM M1-63	PASS	8/23/2011	
M1-64-0	PHOTO	VSMOKE	LVL 1 WEST ELEV 4&5 LOBBY M1-64	PASS	8/23/2011	
M1-65-0	UNUSED		LVL 1 WEST ELEV 4&5 PIT M1-65	UNUSED		

M1-66-0	UNUSED		LVL 1 WEST ELEV 4&5 PIT M1-66	UNUSED		
M1-67-0	ADRPUL	PULL	LVL 1 WEST BY DOOR 1510F M1-67	PASS	8/23/2011	
M1-68-0	ADRPUL	PULL	LVL 1 WEST BY DOOR 1510D M1-68	PASS	8/26/2011	
M1-69-0	ADRPUL	PULL	LVL 1 WEST BY DOOR 1510B M1-69	PASS	8/26/2011	
M1-70-0	ADRPUL	PULL	LVL 1 WEST BY DOOR 1523A M1-70	PASS	8/26/2011	
M1-71-0	UNUSED		LVL 1 WEST DOOR 1523A M1-71	UNUSED		
M1-72-0	PHOTO	VSMOKE	LVL 1 WEST BG1 M1-72	PASS	8/26/2011	
M1-73-0	PHOTO	VSMOKE	LVL 1 WEST BG1 M1-73	PASS	8/26/2011	
M1-74-0	PHOTO	VSMOKE	LVL 1 WEST BG2 M1-74	PASS	8/26/2011	
M1-75-0	PHOTO	VSMOKE	LVL 1 WEST BG2 M1-75	PASS	8/26/2011	
M1-76-0	PHOTO	VSMOKE	LVL 1 WEST ELEVATOR 8 LOBBY M1-76	PASS	8/26/2011	
M1-77-0	UNUSED		LVL 1 WEST ELEVATOR 8 PIT M1-77	UNUSED		
M1-78-0	UNUSED		LVL 1 WEST ELEVATOR 8 PIT M1-78	UNUSED		
M1-79-0	IAM	WSO	LVL1 ZN1-5 WST ELEV8PIT,TS19,FLW19 M1-79	PASS	8/29/2011	
M1-80-0	IAM	SO	LVL 1 ZN1-6 WST SPRNK CAB VLV TS16 M1-80	PASS	8/29/2011	
M1-81-0	UNUSED		LVL 1 WEST DS PRESS M1-81	UNUSED		
M1-82-0	UNUSED		LVL 1 WEST DS LOW AIR M1-82	UNUSED		
M1-83-0	UNUSED		LVL 1 WEST DS HIGH AIR M1-83	UNUSED		
M1-84-0	IAM	WSO	LVL 1 WST SRRNK ZN 1-6 TS17,FLW11 M1-84	PASS	8/29/2011	
M1-85-0	IAM	WSO	LVL 1 WST SPRNK ZN 1-8,TS18,FLW12 M1-85	PASS	8/29/2011	
M1-86-0	UNUSED		LVL 1 WEST SPRNK ZN 2 M1-86	UNUSED		
M1-87-0	UNUSED		LVL 1 WEST SPRNK ZN 2 M1-87	UNUSED		
M1-88-0	UNUSED		LVL 1 WEST SPRNK ZN 2 M1-88	UNUSED		
M1-89-0	ADRPUL	PULL	LVL 1 WEST BY DOOR 1524B M1-89	PASS	8/26/2011	
M1-90-0	ADRPUL	PULL	LVL 1 WEST BY DOOR 1525C M1-90	PASS	8/26/2011	
M1-91-0	RIAM	DHOLDER	LVL 1 WEST DOOR 1506B M1-91	PASS	9/2/2011	
M1-92-0	ADRPUL	PULL	LVL 1 WEST BY DOOR 1533 M1-92	PASS	8/26/2011	
M1-93-0	UNUSED		LVL 1 WEST SPRNK ZN 2 TAMPER M1-93	UNUSED		
M1-94-0	PHOTO	VSMOKE	LVL 1 WEST BG13 M1-94	PASS	8/26/2011	
M1-95-0	PHOTO	VSMOKE	LVL 1 WEST BG13 M1-95	PASS	8/26/2011	
M1-96-0	PHOTO	VSMOKE	LVL 1 WEST BG14 M1-96	PASS	8/26/2011	
M1-97-0	PHOTO	VSMOKE	LVL 1 WEST BG14 M1-97	PASS	8/26/2011	
M1-98-0	ADRPUL	PULL	LVL 1 WEST BY DOOR 1518 M1-98	PASS	8/26/2011	
M1-99-0	PHOTO	VSMOKE	LVL 1 WEST BG3 M1-99	PASS	8/26/2011	
M1-100-0	PHOTO	VSMOKE	LVL 1 WEST BG3 M1-100	PASS	8/26/2011	
M1-101-0	PHOTO	VSMOKE	LVL 1 WEST BG10 M1-101	PASS	8/26/2011	
M1-102-0	PHOTO	VSMOKE	LVL 1 WEST BG10 M1-102	PASS	8/26/2011	
M1-103-0	ADRPUL	PULL	LVL 1 WEST BY DOOR 1503C M1-103	PASS	8/26/2011	
M1-104-0	UNUSED		LVL 1 WEST DOOR 1503C M1-104	UNUSED		
M1-105-0	UNUSED		LVL 1 WEST JANITOR CLOSET 1514 M1-105	UNUSED		
M1-106-0	IAM	WSO	LVL 1 WST ELEV 6&7 PIT TS20,FLW14 M1-106	PASS	8/29/2011	
M1-107-0	UNUSED		LVL 1 WEST ELEV 6&7 PIT M1-107	UNUSED		
M1-108-0	UNUSED		LVL 1 WEST ELEV 6&7 PIT M1-108	UNUSED		
M1-109-0	UNUSED		LVL 1 WEST ELEV 6&7 PIT INSP M1-109	UNUSED		
M1-110-0	PHOTO	VSMOKE	LVL 1 WEST CLOSET 1502B M1-110	PASS	8/26/2011	
M1-111-0	RIAM	PRIMARY	LVL 1 WEST ELEV 4&5 PRIMARY M1-111	PASS	8/23/2011	
M1-112-0	RIAM	ALTERN	LVL 1 WEST ELEV 4&5 ALTERNATE M1-112	PASS	8/23/2011	
M1-113-0	RIAM	RELAY	LVL 1 WEST ELEV 4&5 FF HAT M1-113	PASS	8/23/2011	
M1-114-0	RIAM	SHAFT	LVL 1 ELEV 4&5 SHNT TRIP M1-114	PASS	8/23/2011	
M1-115-0	IAM	SUPERV	LVL 1 WEST ELEV 4&5 POWER MON M1-115		9/7/2011	
M1-116-0	HEAT	HEAT	LVL 1 WEST ELEV 4&5 MACH RM M1-116	PASS	8/23/2011	
M1-117-0	IAM	WSO	LVL 2 WEST ELEV 4&5 PIT TS9,FLW6 M1-117	PASS	8/29/2011	
M1-118-0	RIAM	RELAY	LVL 3 WEST ELEV 4&5 2ND F HAT M1-118	PASS	8/23/2011	
M1-119-0	UNUSED			UNUSED		
M1-120-0	ADRPUL	PULL	LVL 1 WST MN ELECT RM BY 1511B M1-120	PASS	8/26/2011	
M1-121-0	ADRPUL	PULL	LVL 1 WST MN ELECT RM BY 1511A M1-121	PASS	8/26/2011	
M1-122-0	PHOTO	VSMOKE	LVL 1 WEST MAIN ELECT RM 1511 M1-122	PASS	8/26/2011	
M1-123-0	PHOTO	VSMOKE	LVL 1 WEST MAIN ELECT RM 1511 M1-123	PASS	8/26/2011	
M1-124-0	IAM	SO	LVL1 WST BCK FLW PREV STWLL B TS1 M1-124	PASS	8/29/2011	
M1-125-0	IAM	SO	LVL1 WST BCK FLW PREV STWLL B TS2 M1-125	PASS	8/29/2011	
M1-126-0	TRIAM	UTILITY	LVL 1 WST BAG HNDL FDR BG1 MON M1-126	PASS	9/2/2011	
M1-126-1	MRELAY	RELAY	LVL 1 WST BAG HNDL FDR BG1 REL M1-126	PASS	9/2/2011	Door will not close if photo eye is blocked after 10 sec. because of BHS. Doors are provided with a fusible link to close door in this case.
M1-126-2	MTSENSE	FIRE		UNUSED		
M1-127-0	TRIAM	UTILITY	LVL 1 WST BAG HNDL FDR BG2 MON M1-127	PASS	9/2/2011	
M1-127-1	MRELAY	RELAY	LVL 1 WST BAG HNDL FDR BG2 REL M1-127	PASS	9/2/2011	Door will not close if photo eye is blocked after 10 sec. because of BHS. Doors are provided with a fusible link to close door in this case.
M1-127-2	MTSENSE	FIRE		UNUSED		
M1-128-0	TRIAM	UTILITY	LVL 1 WST BAG HNDL FDR BG3 MON M1-128	PASS	9/2/2011	
M1-128-1	MRELAY	RELAY	LVL 1 WST BAG HNDL FDR BG3 REL M1-128	PASS	9/2/2011	Door will not close if photo eye is blocked after 10 sec. because of BHS. Doors are provided with a fusible link to close door in this case.
M1-128-2	MTSENSE	FIRE		UNUSED		
M1-129-0	TRIAM	UTILITY	LVL 1 WST BAG HNDL FDR BG10 MON M1-129	PASS	9/2/2011	

M1-129-1	MRELAY	RELAY	LVL 1 WST BAG HNDL FDR BG10 REL M1-129	PASS	9/2/2011	Door will not close if photo eye is blocked after 10 sec. because of BHS. Doors are provided with a fusible link to close door in this case.
M1-129-2	MTSENSE	FIRE		UNUSED		
M1-130-0	TRIAM	UTILITY	LVL 1 WST BAG HNDL FDR BG14 MON M1-130	PASS	9/2/2011	
M1-130-1	MRELAY	RELAY	LVL 1 WST BAG HNDL FDR BG14 REL M1-130	PASS	9/2/2011	Door will not close if photo eye is blocked after 10 sec. because of BHS. Doors are provided with a fusible link to close door in this case.
M1-130-2	MTSENSE	FIRE		UNUSED		
M1-131-0	TRIAM	UTILITY	LVL 1 WST BAG HNDL FDR BG13 MON M1-131	PASS	9/2/2011	
M1-131-1	MRELAY	RELAY	LVL 1 WEST BAG HNDL FDR BG13 REL M1-131	PASS	9/2/2011	Door will not close if photo eye is blocked after 10 sec. because of BHS. Doors are provided with a fusible link to close door in this case.
M1-131-2	MTSENSE	FIRE		UNUSED		
M1-132-0	UNUSED			UNUSED		
M1-133-0	UNUSED			UNUSED		
M1-134-0	RIAM	RELAY	LVL 1 BG1 IN TO BHS PLC 1ST SIG M1-134	PASS	9/2/2011	
M1-135-0	RIAM	RELAY	LVL 1 BG2 IN TO BHS PLC 1ST SIG M1-135	PASS	9/2/2011	
M1-136-0	UNUSED			UNUSED		
M1-137-0	UNUSED			UNUSED		
M1-138-0	UNUSED			UNUSED		
M1-139-0	UNUSED			UNUSED		
M1-140-0	UNUSED			UNUSED		
M1-141-0	UNUSED			UNUSED		
M1-142-0	PHOTO	VSMOKE	LVL 1 WEST CLOSET 1523M M1-142	PASS	8/26/2011	
M1-143-0	PHOTO	VSMOKE	LVL 1 WEST ROOM 1523F M1-143	PASS	8/26/2011	
M1-144-0	PHOTO	VSMOKE	LVL 1 WEST CLOSET 1523L M1-144	PASS	8/26/2011	
M1-145-0	PHOTO	VSMOKE	LVL 1 WEST CLOSET 1523K M1-145	PASS	8/26/2011	
M1-146-0	UNUSED			UNUSED		
M1-147-0	UNUSED			UNUSED		
M1-148-0	PHOTO	VSMOKE	LVL 1 WEST LOCKER RM 1522H M1-148	PASS	8/26/2011	
M1-149-0	PHOTO	VSMOKE	LVL 1 WEST STORRAGE 1522D M1-149	PASS	8/26/2011	
M1-150-0	PHOTO	VSMOKE	LVL 1 WEST MDF 1522E M1-150	PASS	8/26/2011	
M1-151-0	PHOTO	VSMOKE	LVL 1 WEST AIRLINE OPPS 1521 M1-151	PASS	8/26/2011	
M1-152-0	PHOTO	VSMOKE	LVL 1 WEST COMPUTER RM 1520C M1-152	PASS	8/26/2011	
M1-153-0	PHOTO	VSMOKE	LVL 1 WEST STORRAGE 1520B M1-153	PASS	8/26/2011	
M1-154-0	UNUSED			UNUSED		
M1-155-0	PHOTO	VSMOKE	LVL 1 WEST LOCKER RM 1519E M1-155	PASS	8/26/2011	
M1-156-0	PHOTO	VSMOKE	LVL 1 WEST IDF 1519D M1-156	PASS	8/26/2011	
M1-247-0	ISO	ISO				
M1-248-0	ISO	ISO				
M1-249-0	ISO	ISO				
M1-250-0	ISO	ISO				
M2-1-0	UNUSED			UNUSED		
M2-2-0	UNUSED			UNUSED		
M2-3-0	UNUSED			UNUSED		
M2-4-0	UNUSED			UNUSED		
M2-5-0	UNUSED			UNUSED		
M2-6-0	UNUSED			UNUSED		
M2-7-0	UNUSED			UNUSED		
M2-8-0	UNUSED			UNUSED		
M2-9-0	UNUSED			UNUSED		
M2-10-0	PHOTO	VSMOKE	LVL 2 WEST MDF RM 2518 M2-10	PASS	8/26/2011	
M2-11-0	PHOTO	VSMOKE	LVL 2 WEST ELECT CLOSET 2519A M2-11	PASS	8/26/2011	
M2-12-0	PHOTO	VSMOKE	LVL 2 WEST UPS RM 2519B M2-12	PASS	8/26/2011	
M2-13-0	RIAM	DHOLDER	LVL 2 WEST DOOR 2505A INT CTL M2-13	PASS	9/2/2011	
M2-14-0	PHOTO	VSMOKE	LVL 2 WEST ELEV 8 LOBBY SOUTH M2-14	PASS	8/22/2011	
M2-15-0	ADRPUL	PULL	LVL 2 WEST STAIRWELL C EXIT M2-15	PASS	8/26/2011	
M2-16-0	IAM	WSO	LVL 2 WEST SPRNK ZN 2-1,TS13,FLW8 M2-16	PASS	8/29/2011	
M2-17-0	IAM	WSO	LVL 2 WEST SPRNK ZN 2-2,TS14,FLW9 M2-17	PASS	8/29/2011	
M2-18-0	PHOTO	VSMOKE	LVL 2 WEST ELEV 8 LOBBY NORTH M2-18	PASS	8/22/2011	
M2-19-0	PHOTO	VSMOKE	LVL 2 WEST STORAGE 2520A M2-19	PASS	8/26/2011	
M2-20-0	IAM	SO	LVL 2 WST STRWLL C TS 11 STNDPP M2- 20	PASS	8/29/2011	
M2-21-0	IAM	SO	LVL 2 WST STRWLL C ZN3-4,S 12 HVC M2-21	PASS	8/29/2011	
M2-22-0	RIAM	DHOLDER	LVL 2 WEST DIP 2505D DOOR UNLCK M2-22	PASS	9/2/2011	
M2-23-0	UNUSED			UNUSED		
M2-24-0	UNUSED			UNUSED		
M2-25-0	UNUSED			UNUSED		
M2-26-0	UNUSED			UNUSED		
M2-27-0	UNUSED			UNUSED		
M2-28-0	UNUSED			UNUSED		
M2-29-0	UNUSED			UNUSED		
M2-30-0	UNUSED		LVL 2 WST JETBRDGE GATE 11 M2-30	UNUSED		
M2-31-0	RIAM	RELAY	LVL 2 WEST GATE 11 FUSEDLNK FAN M2-31	PASS	8/29/2011	
M2-32-0	PHOTO	VSMOKE	LVL 2 WEST FIXED LNK 2530 M2-32	PASS	8/26/2011	
M2-33-0	ADRPUL	PULL	LVL 2 WEST FIXED LINK 2529 EXIT M2-33	PASS	8/26/2011	

M2-34-0	UNUSED		LVL 2 WST JETBRIDGE GATE 10 M2-34	UNUSED		
M2-35-0	RIAM	RELAY	LVL 2 WEST GATE 10 FUSEDLNK FAN M2-35	PASS	8/29/2011	
M2-36-0	PHOTO	VSMOKE	LVL 2 WST FIXEDLNK 2529 M2-36	PASS	8/26/2011	
M2-37-0	RIAM	DHOLDER	LVL 2 WEST DR 2529A INT CTRL M2-37	PASS	9/2/2011	
M2-38-0	RIAM	DHOLDER	LVL 2 WEST DR 2529C INT CTRL M2-38	PASS	9/2/2011	
M2-39-0	PHOTO	VSMOKE	LVL 2 WEST STAIRWELL D M2-39	PASS	8/26/2011	
M2-40-0	ADRPUL	PULL	LVL 2 WEST FIXEDLNK 2528 EXIT M2-40	PASS	8/26/2011	
M2-41-0	UNUSED		LVL 2 WEST JETBRIDGE GATE 9 M2-41	UNUSED		
M2-42-0	RIAM	RELAY	LVL 2 WST GATE 9 FUSEDLNK FAN M2-42	PASS	8/29/2011	
M2-43-0	PHOTO	VSMOKE	LVL 2 WST FIXEDLNK 2528 M2-43	PASS	8/26/2011	
M2-44-0	RIAM	DHOLDER	LVL 2 WST DR 2528A INT CTRL M2-44	PASS	9/2/2011	
M2-45-0	RIAM	DHOLDER	LVL 2 WST DR 2528C INT CTRL M2-45	PASS	9/2/2011	
M2-46-0	PHOTO	VSMOKE	LVL 2 WEST STAIRWELL D M2-46	PASS	8/26/2011	
M2-47-0	ADRPUL	PULL	LVL 2 WST FIXEDLNK 2527 EXIT M2-47	PASS	8/26/2011	
M2-48-0	UNUSED		LVL 2 WST JETBRIDGE GATE 8 M2-48	UNUSED		
M2-49-0	RIAM	RELAY	LVL 2 WST GATE 8 FUSEDLNK FAN M2-49	PASS	8/29/2011	
M2-50-0	PHOTO	VSMOKE	LVL 2 WST FIXEDLNK 2527 M2-50	PASS	8/26/2011	
M2-51-0	RIAM	DHOLDER	LVL 2 WST DR 2527A INT CTRL M2-51	PASS	9/2/2011	
M2-52-0	RIAM	DHOLDER	LVL 2 WST DR 2527C INT CTRL M2-52	PASS	9/2/2011	
M2-53-0	PHOTO	VSMOKE	LVL 2 WEST STAIRWELL F M2-53	PASS	8/26/2011	
M2-54-0	ADRPUL	PULL	LVL 2 WST FIXEDLNK 2526 EXIT M2-54	PASS	8/26/2011	
M2-55-0	UNUSED		LVL 2 WST JETBRIDGE GATE 7 M2-55	UNUSED		
M2-56-0	RIAM	RELAY	LVL 2 WST GATE 7 FUSEDLNK FAN M2-56	PASS	8/29/2011	
M2-57-0	PHOTO	VSMOKE	LVL 2 WST FIXEDLNK 2526 M2-57	PASS	8/26/2011	
M2-58-0	RIAM	DHOLDER	LVL 2 WST DR 2526A INT CTRL M2-58	PASS	9/2/2011	
M2-59-0	RIAM	DHOLDER	LVL 2 WST DR 2526C INT CTRL M2-59	PASS	9/2/2011	
M2-60-0	PHOTO	VSMOKE	LVL 2 WEST STAIRWELL G M2-60	PASS	8/26/2011	
M2-61-0	UNUSED			UNUSED		
M2-62-0	UNUSED			UNUSED		
M2-63-0	PHOTO	VSMOKE	LVL 3 WEST ELEV 6&7 LOBBY M2-63	PASS	8/24/2011	
M2-64-0	PHOTO	VSMOKE	LVL 3 WEST ELEV 6&7 TOP OF SHAFT M2-64	PASS	8/24/2011	
M2-65-0	UNUSED			UNUSED		
M2-66-0	UNUSED			UNUSED		
M2-67-0	UNUSED			UNUSED		
M2-68-0	RIAM	RELAY	LVL 2 WST ELEV 6&7 MACH RM HAT M2-68	PASS	8/24/2011	
M2-69-0	PHOTO	VSMOKE	LVL 2 WEST JANITOR CLOSET 2511 M2-69	PASS	8/26/2011	
M2-70-0	PHOTO	VSMOKE	LVL 2 WEST JANITOR CLOSET 2508 M2-70	PASS	8/26/2011	
M2-71-0	IAM	WSO	LVL2 WST ELEV6&7 MCH RM TS15,FLW10 M2-71	PASS	8/29/2011	
M2-72-0	RIAM	RELAY	LVL 2 WST ELEV 6&7 FF HAT M2-72	PASS	8/24/2011	
M2-73-0	RIAM	SHAFT	LVL 2 WST ELEV 6&7 SHUNT TRIP M2-73	PASS	8/24/2011	
M2-74-0	IAM	SUPERV	LVL 2 WST ELEV 6&7 POWER MON M2-74	PASS	9/7/2011	
M2-75-0	RIAM	ALTERN	LVL 2 WST ELEV 6&7 ALT RECALL M2-75	PASS	8/24/2011	
M2-76-0	RIAM	PRIMARY	LVL 2 WST ELEV 6&7 PRI RECALL M2-76	PASS	8/24/2011	
M2-77-0	PHOTO	VSMOKE	LVL 2 WST ELEV 6&7 MACH RM 2506 M2-77	PASS	8/24/2011	
M2-78-0	HEAT	HEAT	LVL 2 WST ELEV 6&7 MACH RM 2506 M2-78	PASS	8/24/2011	
M2-79-0	PHOTO	VSMOKE	LVL 2 WST ELEV 6&7 LOBBY M2-79	PASS	8/24/2011	
M2-80-0	ADRPUL	PULL	LVL 2 WST CONCOURSE 2500 EXIT M2-80	PASS	8/24/2011	
M2-81-0	TRIAM	UTILITY	LVL 2 WST FIRE SHUTTER 6&7 MON M2-81	PASS	9/2/2011	
M2-81-1	MRELAY	RELAY	LVL 2 WST FIRE SHUTTER 6&7 REL M2-81	PASS	9/2/2011	
M2-81-2	MTSENSE	FIRE		UNUSED		
M2-82-0	PHOTO	VSMOKE	LVL 2 WEST FIRE SHUTTER 6&7 M2-82	PASS	8/26/2011	
M2-83-0	PHOTO	VSMOKE	LVL 2 WEST FIRE SHUTTER 6&7 M2-83	PASS	9/2/2011	
M2-84-0	PHOTO	VSMOKE	LVL 2 WEST FIRE SHUTTER 6&7 M2-84	PASS	8/26/2011	
M2-85-0	PHOTO	VSMOKE	LVL 2 WEST FIRE SHUTTER 6&7 M2-85	PASS	9/2/2011	
M2-86-0	UNUSED			UNUSED		
M2-87-0	UNUSED		LVL 2 WST ADD ALT IN STR BY TSW M2-87	UNUSED		
M2-247-0	ISO	ISO	ISOLATOR LINE 1 LEVEL1 DEVICES M2-247			
M2-248-0	ISO	ISO	ISOLATOR LINE 2 LEVEL2 DEVICES M2-248			
M2-249-0	ISO	ISO	ISOLATOR LINE 3 LEVEL3 DEVICES M2-249			
M2-250-0	ISO	ISO	ISOLATOR LINE 4 LEVEL4 DEVICES M2-250			
M3-1-0	UNUSED			UNUSED		
M3-2-0	UNUSED			UNUSED		
M3-3-0	UNUSED			UNUSED		
M3-4-0	UNUSED			UNUSED		
M3-5-0	UNUSED			UNUSED		
M3-6-0	UNUSED			UNUSED		
M3-7-0	UNUSED			UNUSED		
M3-8-0	UNUSED			UNUSED		
M3-9-0	RIAM	DHOLDER	LVL 3 WEST DIP 3514B DOOR UNLCK M3-9	PASS	9/2/2011	
M3-10-0	PHOTO	VSMOKE	LVL 3 WEST IDF RM 3508 M3-10	PASS	8/26/2011	
M3-11-0	UNUSED		LVL 3 WEST ELEV 6&7 LOBBY M3-11	UNUSED		
M3-12-0	ADRPUL	PULL	LVL 3 WEST SEC CIRC 3505 NW M3-12	PASS	8/26/2011	
M3-13-0	RIAM	DHOLDER	LVL 3 WEST DOOR 3514A INT CTRL M3-13	PASS	9/2/2011	
M3-14-0	PHOTO	VSMOKE	LVL 3 WEST ELECT CLOSET 3516 M3-14	PASS	8/26/2011	
M3-15-0	PHOTO	VSMOKE	LVL 3 WEST ELEV 8 LOBBY M3-15	PASS	8/22/2011	
M3-16-0	ADRPUL	PULL	LVL 3 WEST STAIRWELL C EXIT M3-16	PASS	8/26/2011	

M3-17-0	IAM	WSO	LVL 3 WST SPRNK ZN 1-2,TS22,FLW15 M3-17	PASS	8/29/2011	
M3-18-0	IAM	SO	LVL 3 WEST STAIR C HVC, TS21 M3-18	PASS	8/29/2011	
M3-19-0	IAM	WSO	LVL 3 WST SPRNK ZN 3-4,TS19,FLW16 M3-19	PASS	8/29/2011	
M3-20-0	UNUSED			UNUSED		
M3-21-0	UNUSED		LVL3 WST ELEV 8 TP SHFT,TS M3-21	UNUSED		
M3-22-0	IAM	WSO	LV3 WST ELEV8 TP SHFT,ZN3-6,TS24,FS17 M3-22	PASS	8/29/2011	
M3-23-0	HEAT	HEAT	LVL 3 WST ELEV 8 MACH RM 3519 M3-23	PASS	8/22/2011	
M3-24-0	PHOTO	VSMOKE	LVL 3 WST ELEV 8 MACH RM 3519 M3-24	PASS	8/22/2011	
M3-25-0	PHOTO	VSMOKE	LVL 3 WEST STORRAGE RM 3520 M3-25	PASS	8/26/2011	
M3-26-0	RIAM	RELAY	LVL 3 WEST ELEV 8 FF HAT M3-26	PASS	8/22/2011	
M3-27-0	RIAM	SHAFT	LVL 3 ELEV 8 SHUNT TRIP M3-27	PASS	8/22/2011	
M3-28-0	IAM	SUPERV	LVL 3 WEST ELEV 8 POWER MON M3-28	PASS	9/7/2011	
M3-29-0	RIAM	ALTERN	LVL 3 WEST ELEV 8 ALT RECALL M3-29	PASS	8/22/2011	
M3-30-0	RIAM	PRIMARY	LVL 3 WEST ELEV 8 PRI RECALL M3-30	PASS	8/22/2011	
M3-31-0	PHOTO	VSMOKE	LVL 3 WEST STORAGE RM 3528 M3-31	PASS	8/29/2011	
M3-32-0	HEAT	HEAT	LVL 3 WEST GENERATOR RM 3517 M3-32	PASS	8/29/2011	
M3-33-0	IAM	WSO	LVL3 WST ELEV8 MCH ZN3-6,TS25,FS18 M3-33	PASS	8/29/2011	
M3-34-0	PHOTO	VSMOKE	LVL 3 WEST STORAGE RM 3521 M3-34	PASS	8/26/2011	
M3-35-0	PHOTO	VSMOKE	LVL 3 WEST ELEV 8 TOP OF SHAFT M3-35	PASS	8/22/2011	
M3-36-0	HEAT	HEAT	LVL 3 WEST ELEV 8 TOP OF SHAFT M3-36	PASS	8/22/2011	
M3-37-0	UNUSED			UNUSED		
M3-38-0	UNUSED			UNUSED		
M3-39-0	PHOTO	VSMOKE	LVL 3 WEST ELEV 4&5 TOP OF SHAFT M3-39	PASS	8/26/2011	
M3-40-0	ADRPUL	PULL	LVL 3 WEST SECURITY OPPS 3507 M3-40	PASS	8/26/2011	
M3-41-0	PHOTO	VSMOKE	LVL 3 WEST ELEV 4&5 LOBBY M3-41	PASS	8/23/2011	
M3-42-0	IAM	WSO	LVL 3 WEST SPRNK ZN 3-1,TS26,FS19 M3-42	PASS	8/29/2011	
M3-43-0	RIAM	DHOLDER	LVL 3 WEST DIP 3502A DOOR UNLCK M3-43	PASS	9/2/2011	
M3-44-0	ADRPUL	PULL	LVL 3 WEST MECH RM 3501 EAST M3-44	PASS	8/26/2011	
M3-45-0	RIAM	RELAY	LVL 3 WEST FS8 INT CTRL M3-45	PASS	9/2/2011	
M3-46-0	PHOTO	VSMOKE	LVL 3 WEST VEST 3400 ENTRANCE M3-46	PASS	8/26/2011	
M3-47-0	ADRPUL	PULL	LVL 3 WEST VEST 3400 ENTRANCE M3-47	PASS	8/26/2011	
M3-48-0	PHOTO	VSMOKE	LVL 3 WEST VEST 3400 ENTRANCE M3-48	PASS	8/26/2011	
M3-49-0	PHOTO	VSMOKE	LVL 3 WEST VEST 3502 SOUTH M3-49	PASS	8/26/2011	
M3-50-0	PHOTO	VSMOKE	LVL 3 WEST VEST 3502 WEST M3-50	PASS	8/26/2011	
M3-51-0	ADRPUL	PULL	LVL 3 WEST VEST 3502 EXIT M3-51	PASS	8/26/2011	
M3-52-0	ADRPUL	PULL	LVL 3 WEST MECH RM 3501 WST M3-52	PASS	8/26/2011	
M3-53-0	IAM	SO	LVL 3 WEST SPRINK ZN 1-1,TS7 M3-53	PASS	8/29/2011	
M3-54-0	RIAM	DHOLDER	LVL 3 WEST DIP 3502B DOOR UNLCK M3-54	PASS	9/2/2011	
M3-55-0	IAM	WSO	LVL 3 WEST SPRINK ZN 1-1,TS8,FS5 M3-55	PASS	8/29/2011	
M3-56-0	UNUSED			UNUSED		
M3-57-0	IAM	WSO	LVL 3 WST SPRNK ZN 3-3,TS6,FS4 M3-57	PASS	8/29/2011	
M3-58-0	UNUSED			UNUSED		
M3-59-0	IAM	WSO	LVL 3 WEST SPRNK ZN 3-2,TS5,FS3 M3-59	PASS	8/29/2011	
M3-60-0	UNUSED			UNUSED		
M3-61-0	IAM	WSO	LVL 3 WST SPRINK ZN 3-7,TS4,FS2 M3-61	PASS	8/29/2011	
M3-62-0	IAM	WSO	LVL 3 WEST MECH RM 3501 TS3, FS1 M3-62	PASS	8/29/2011	
M3-63-0	UNUSED			UNUSED		
M3-64-0	UNUSED			UNUSED		
M3-65-0	UNUSED			UNUSED		
M3-66-0	UNUSED			UNUSED		
M3-67-0	UNUSED			UNUSED		
M3-68-0	UNUSED			UNUSED		
M3-69-0	UNUSED			UNUSED		
M3-70-0	RIAM	DHOLDER	PENTHOUSE WEST DIP 4500A INT CTRL M3-70	PASS	9/2/2011	
M3-71-0	ADRPUL	PULL	PENTHOUSE WEST MECH WELL 4500 M3-71	PASS	8/26/2011	
M3-72-0	RPHOTO	LVSDUCT	PENTHOUSE WST AHU-2 SUPPLY RM 4500 M3-72	PASS	8/29/2011	
M3-73-0	RPHOTO	LVSDUCT	PENTHOUSE WST AHU-1 SUPPLY RM 4500 M3-73	PASS	8/29/2011	
M3-74-0	RPHOTO	LVSDUCT	PENTHOUSE WST AHU-1 RETURN RM 4500 M3-74	PASS	8/29/2011	
M3-75-0	RPHOTO	LVSDUCT	PENTHOUSE WST AHU-2 RETURN RM 4500 M3-75	PASS	8/29/2011	
M3-76-0	ADRPUL	PULL	PENTHOUSE WEST MECH WELL 4500 M3-76	PASS	8/26/2011	
M3-77-0	RIAM	DHOLDER	PENTHOUSE WEST DIP 4500B INT CTRL M3-77	PASS	9/2/2011	
3-1-5	STRB	STRB	N3:TPS1:1-1-5	PASS	8/29/2011	
3-1-6	STRB	STRB	N3:TPS1:1-1-6	PASS	8/29/2011	
3-3-1	STRB	STRB	N3:TPS1:3-1-1	PASS	8/29/2011	
3-3-2	STRB	STRB	N3:TPS1:3-1-2	PASS	8/29/2011	
3-3-3	STRB	STRB	N3:TPS1:3-1-3	PASS	8/29/2011	
3-3-4	STRB	STRB	N3:TPS1:3-1-4	PASS	8/29/2011	
3-3-5	STRB	STRB	N3:TPS1:3-1-5	PASS	8/29/2011	
4-1-1	STRB	STRB	N3:TPS2:1-1-1	PASS	8/29/2011	
4-1-2	STRB	STRB	N3:TPS2:1-1-2	PASS	8/29/2011	
4-1-3	STRB	STRB	N3:TPS2:1-1-3	PASS	8/29/2011	
4-1-4	STRB	STRB	N3:TPS2:1-1-4	PASS	8/29/2011	
4-2-1	STRB	STRB	N3:TPS2:2-1-1	PASS	8/29/2011	
4-2-2	STRB	STRB	N3:TPS2:2-1-2	PASS	8/29/2011	
4-2-3	STRB	STRB	N3:TPS2:2-1-3	PASS	8/29/2011	
4-2-4	STRB	STRB	N3:TPS2:2-1-4	PASS	8/29/2011	

4-2-5	STRB	STRB	N3:TPS2:2-1-5	PASS	8/29/2011	
4-3-1	STRB	STRB	N3:TPS2:3-1-1	PASS	8/29/2011	
4-3-2	STRB	STRB	N3:TPS2:3-1-2	PASS	8/29/2011	
4-3-3	STRB	STRB	N3:TPS2:3-1-3	PASS	8/29/2011	
4-3-4	STRB	STRB	N3:TPS2:3-1-4	PASS	8/29/2011	
4-3-5	STRB	STRB	N3:TPS2:3-1-5	PASS	8/29/2011	
4-3-6	STRB	STRB	N3:TPS2:3-1-6	PASS	8/29/2011	
4-3-7	STRB	STRB	N3:TPS2:3-1-7	PASS	8/29/2011	
4-3-8	STRB	STRB	N3:TPS2:3-1-8	PASS	8/29/2011	
5-1-1	STRB	STRB	N3:TPS3:1-1-1	PASS	8/29/2011	
5-1-2	STRB	STRB	N3:TPS3:1-1-2	PASS	8/29/2011	
5-1-3	STRB	STRB	N3:TPS3:1-1-3	PASS	8/29/2011	
5-1-4	STRB	STRB	N3:TPS3:1-1-4	PASS	8/29/2011	
5-1-5	STRB	STRB	N3:TPS3:1-1-5	PASS	8/29/2011	
5-2-1	STRB	STRB	N3:TPS3:2-1-1	PASS	8/29/2011	
5-2-2	STRB	STRB	N3:TPS3:2-1-2	PASS	8/29/2011	
5-2-3	STRB	STRB	N3:TPS3:2-1-3	PASS	8/29/2011	
5-2-4	STRB	STRB	N3:TPS3:2-1-4	PASS	8/29/2011	
5-2-5	STRB	STRB	N3:TPS3:2-1-5	PASS	8/29/2011	
5-2-6	STRB	STRB	N3:TPS3:2-1-6	PASS	8/29/2011	
5-2-8	STRB	STRB	N3:TPS3:2-1-8	PASS	8/29/2011	
5-2-9	STRB	STRB	N3:TPS3:2-1-9	PASS	8/29/2011	
5-3-1	STRB	STRB	N3:TPS3:3-1-1	PASS	8/29/2011	
5-3-5	STRB	STRB	N3:TPS3:3-1-5	PASS	8/29/2011	
5-3-6	STRB	STRB	N3:TPS3:3-1-6	PASS	8/29/2011	
5-3-7	STRB	STRB	N3:TPS3:3-1-7	PASS	8/29/2011	
5-3-8	STRB	STRB	N3:TPS3:3-1-8	PASS	8/29/2011	
5-3-9	STRB	STRB	N3:TPS3:3-1-9	PASS	8/29/2011	
6-1-1	STRB	STRB	N3:TPS4:1-1-1	PASS	8/29/2011	
6-1-2	STRB	STRB	N3:TPS4:1-1-2	PASS	8/29/2011	
6-1-3	STRB	STRB	N3:TPS4:1-1-3	PASS	8/29/2011	
6-1-4	STRB	STRB	N3:TPS4:1-1-4	PASS	8/29/2011	
6-1-5	STRB	STRB	N3:TPS4:1-1-5	PASS	8/29/2011	
6-1-6	STRB	STRB	N3:TPS4:1-1-6	PASS	8/29/2011	
6-1-7	STRB	STRB	N3:TPS4:1-1-7	PASS	8/29/2011	
6-1-8	STRB	STRB	N3:TPS4:1-1-8	PASS	8/29/2011	
6-1-9	STRB	STRB	N3:TPS4:1-1-9	PASS	8/29/2011	
6-1-10	STRB	STRB	N3:TPS4:1-1-10	PASS	8/29/2011	
6-1-11	STRB	STRB	N3:TPS4:1-1-11	PASS	8/29/2011	
6-1-12	STRB	STRB	N3:TPS4:1-1-12	PASS	8/29/2011	
6-2-1	STRB	STRB	N3:TPS4:2-1-1	PASS	8/29/2011	
6-2-2	STRB	STRB	N3:TPS4:2-1-2	PASS	8/29/2011	
6-2-3	STRB	STRB	N3:TPS4:2-1-3	PASS	8/29/2011	
6-2-4	STRB	STRB	N3:TPS4:2-1-4	PASS	8/29/2011	
6-2-5	STRB	STRB	N3:TPS4:2-1-5	PASS	8/29/2011	
6-2-6	STRB	STRB	N3:TPS4:2-1-6	PASS	8/29/2011	
6-2-7	STRB	STRB	N3:TPS4:2-1-7	PASS	8/29/2011	
6-2-8	STRB	STRB	N3:TPS4:2-1-8	PASS	8/29/2011	
6-2-9	STRB	STRB	N3:TPS4:2-1-9	PASS	8/29/2011	
6-2-10	STRB	STRB	N3:TPS4:2-1-10	PASS	8/29/2011	
6-2-11	STRB	STRB	N3:TPS4:2-1-11	PASS	8/29/2011	
6-2-12	STRB	STRB	N3:TPS4:2-1-12	PASS	8/29/2011	
6-3-1	STRB	STRB	N3:TPS4:3-1-1	PASS	8/29/2011	
6-3-2	STRB	STRB	N3:TPS4:3-1-2	PASS	8/29/2011	
6-3-3	STRB	STRB	N3:TPS4:3-1-3	PASS	8/29/2011	
6-3-4	STRB	STRB	N3:TPS4:3-1-4	PASS	8/29/2011	
6-3-5	STRB	STRB	N3:TPS4:3-1-5	PASS	8/29/2011	
6-3-6	STRB	STRB	N3:TPS4:3-1-6	PASS	8/29/2011	
6-3-7	STRB	STRB	N3:TPS4:3-1-7	PASS	8/29/2011	
6-3-8	STRB	STRB	N3:TPS4:3-1-8	PASS	8/29/2011	
7-1-1	STRB	STRB	N3:TPS5:1-1-1	PASS	8/29/2011	
7-1-2	STRB	STRB	N3:TPS5:1-1-2	PASS	8/29/2011	
7-1-3	STRB	STRB	N3:TPS5:1-1-3	PASS	8/29/2011	
7-1-4	STRB	STRB	N3:TPS5:1-1-4	PASS	8/29/2011	
7-2-1	STRB	STRB	N3:TPS5:2-1-1	PASS	8/29/2011	
7-2-2	STRB	STRB	N3:TPS5:2-1-2	PASS	8/29/2011	
7-2-3	STRB	STRB	N3:TPS5:2-1-3	PASS	8/29/2011	
7-3-1	STRB	STRB	N3:TPS5:3-1-1	PASS	8/29/2011	
26-1-1	STRB	STRB	N3:T1:TPS1:1-1-1	PASS	8/29/2011	
26-1-3	STRB	STRB	N3:T1:TPS1:1-1-3	PASS	8/29/2011	
26-1-4	STRB	STRB	N3:T1:TPS1:1-1-4	PASS	8/29/2011	
26-1-5	STRB	STRB	N3:T1:TPS1:1-1-5	PASS	8/29/2011	
26-1-6	STRB	STRB	N3:T1:TPS1:1-1-6	PASS	8/29/2011	
26-1-7	STRB	STRB	N3:T1:TPS1:1-1-7	PASS	8/29/2011	
26-2-1	STRB	STRB	N3:T1:TPS1:2-1-1	PASS	8/29/2011	
26-2-2	STRB	STRB	N3:T1:TPS1:2-1-2	PASS	8/29/2011	

26-2-3	STRB	STRB	N3:T1:TPS1:2-1-3	PASS	8/29/2011	
26-2-4	STRB	STRB	N3:T1:TPS1:2-1-4	PASS	8/29/2011	
26-2-5	STRB	STRB	N3:T1:TPS1:2-1-5	PASS	8/29/2011	
26-2-6	STRB	STRB	N3:T1:TPS1:2-1-6	PASS	8/29/2011	
26-2-7	STRB	STRB	N3:T1:TPS1:2-1-7	PASS	8/29/2011	
26-2-8	STRB	STRB	N3:T1:TPS1:2-1-8	PASS	8/29/2011	
26-3-1	STRB	STRB	N3:T1:TPS1:3-1-1	PASS	8/29/2011	
26-3-2	STRB	STRB	N3:T1:TPS1:3-1-2	PASS	8/29/2011	
26-3-3	STRB	STRB	N3:T1:TPS1:3-1-3	PASS	8/29/2011	
26-3-4	STRB	STRB	N3:T1:TPS1:3-1-4	PASS	8/29/2011	
26-3-5	STRB	STRB	N3:T1:TPS1:3-1-5	PASS	8/29/2011	
26-3-6	STRB	STRB	N3:T1:TPS1:3-1-6	PASS	8/29/2011	
26-3-7	STRB	STRB	N3:T1:TPS1:3-1-7	PASS	8/29/2011	
27-1-1	STRB	STRB	N3:T1:TPS2:1-1-1	PASS	8/29/2011	
27-1-2	STRB	STRB	N3:T1:TPS2:1-1-2	PASS	8/29/2011	
27-1-3	STRB	STRB	N3:T1:TPS2:1-1-3	PASS	8/29/2011	
27-1-4	STRB	STRB	N3:T1:TPS2:1-1-4	PASS	8/29/2011	
27-1-5	STRB	STRB	N3:T1:TPS2:1-1-5	PASS	8/29/2011	
27-1-6	STRB	STRB	N3:T1:TPS2:1-1-6	PASS	8/29/2011	
27-2-1	STRB	STRB	N3:T1:TPS2:2-1-1	PASS	8/29/2011	
27-2-2	STRB	STRB	N3:T1:TPS2:2-1-2	PASS	8/29/2011	
27-2-3	STRB	STRB	N3:T1:TPS2:2-1-3	PASS	8/29/2011	
27-2-4	STRB	STRB	N3:T1:TPS2:2-1-4	PASS	8/29/2011	
27-2-5	STRB	STRB	N3:T1:TPS2:2-1-5	PASS	8/29/2011	
27-3-1	STRB	STRB	N3:T1:TPS2:3-1-1	PASS	8/29/2011	
27-3-2	STRB	STRB	N3:T1:TPS2:3-1-2	PASS	8/29/2011	
27-3-3	STRB	STRB	N3:T1:TPS2:3-1-3	PASS	8/29/2011	
27-3-4	STRB	STRB	N3:T1:TPS2:3-1-4	PASS	8/29/2011	
27-3-5	STRB	STRB	N3:T1:TPS2:3-1-5	PASS	8/29/2011	
28-1-1	STRB	STRB	N3:T1:TPS3:1-1-1	PASS	8/29/2011	
28-1-2	STRB	STRB	N3:T1:TPS3:1-1-2	PASS	8/29/2011	
28-1-3	STRB	STRB	N3:T1:TPS3:1-1-3	PASS	8/29/2011	
28-1-4	STRB	STRB	N3:T1:TPS3:1-1-4	PASS	8/29/2011	
28-1-5	STRB	STRB	N3:T1:TPS3:1-1-5	PASS	8/29/2011	
28-2-1	STRB	STRB	N3:T1:TPS3:2-1-1	PASS	8/29/2011	
28-2-2	STRB	STRB	N3:T1:TPS3:2-1-2	PASS	8/29/2011	
28-2-3	STRB	STRB	N3:T1:TPS3:2-1-3	PASS	8/29/2011	
28-2-4	STRB	STRB	N3:T1:TPS3:2-1-4	PASS	8/29/2011	
28-2-5	STRB	STRB	N3:T1:TPS3:2-1-5	PASS	8/29/2011	
28-2-6	STRB	STRB	N3:T1:TPS3:2-1-6	PASS	8/29/2011	
28-2-7	STRB	STRB	N3:T1:TPS3:2-1-7	PASS	8/29/2011	
28-2-8	STRB	STRB	N3:T1:TPS3:2-1-8	PASS	8/29/2011	
28-2-9	STRB	STRB	N3:T1:TPS3:2-1-9	PASS	8/29/2011	
28-3-1	STRB	STRB	N3:T1:TPS3:3-1-1	PASS	8/29/2011	
28-3-2	STRB	STRB	N3:T1:TPS3:3-1-2	PASS	8/29/2011	
28-3-3	STRB	STRB	N3:T1:TPS3:3-1-3	PASS	8/29/2011	
28-3-4	STRB	STRB	N3:T1:TPS3:3-1-4	PASS	8/29/2011	
28-3-5	STRB	STRB	N3:T1:TPS3:3-1-5	PASS	8/29/2011	
28-3-6	STRB	STRB	N3:T1:TPS3:3-1-6	PASS	8/29/2011	
36-1-1	STRB	STRB	N3:T2:TPS1:1-1-1	PASS	8/29/2011	
36-1-2	STRB	STRB	N3:T2:TPS1:1-1-2	PASS	8/29/2011	
36-1-3	STRB	STRB	N3:T2:TPS1:1-1-3	PASS	8/29/2011	
36-1-4	STRB	STRB	N3:T2:TPS1:1-1-4	PASS	8/29/2011	
36-1-5	STRB	STRB	N3:T2:TPS1:1-1-5	PASS	8/29/2011	
36-1-6	STRB	STRB	N3:T2:TPS1:1-1-6	PASS	8/29/2011	
36-1-7	STRB	STRB	N3:T2:TPS1:1-1-7	PASS	8/29/2011	
36-2-1	STRB	STRB	N3:T2:TPS1:2-1-1	PASS	8/29/2011	
36-2-2	STRB	STRB	N3:T2:TPS1:2-1-2	PASS	8/29/2011	
36-2-3	STRB	STRB	N3:T2:TPS1:2-1-3	PASS	8/29/2011	
36-2-5	STRB	STRB	N3:T2:TPS1:2-1-5	PASS	8/29/2011	
36-2-6	STRB	STRB	N3:T2:TPS1:2-1-6	PASS	8/29/2011	
36-2-7		STRB	N3:T2:TPS1:2-1-7	PASS	8/29/2011	
36-2-8	STRB	STRB	N3:T2:TPS1:2-1-8	PASS	8/29/2011	
36-2-9	STRB	STRB	N3:T2:TPS1:2-1-9	PASS	8/29/2011	
36-3-1	STRB	STRB	N3:T2:TPS1:3-1-1	PASS	8/29/2011	
36-3-2	STRB	STRB	N3:T2:TPS1:3-1-2	PASS	8/29/2011	
36-3-3	STRB	STRB	N3:T2:TPS1:3-1-3	PASS	8/29/2011	
36-3-4	STRB	STRB	N3:T2:TPS1:3-1-4	PASS	8/29/2011	
36-3-5	STRB	STRB	N3:T2:TPS1:3-1-5	PASS	8/29/2011	
36-3-6	STRB	STRB	N3:T2:TPS1:3-1-6	PASS	8/29/2011	
36-3-7	STRB	STRB	N3:T2:TPS1:3-1-7	PASS	8/29/2011	
36-3-8	STRB	STRB	N3:T2:TPS1:3-1-8	PASS	8/29/2011	
36-3-9	STRB	STRB	N3:T2:TPS1:3-1-9	PASS	8/29/2011	
37-1-1	STRB	STRB	N3:T2:TPS2:1-1-1	PASS	8/29/2011	
37-1-2	STRB	STRB	N3:T2:TPS2:1-1-2	PASS	8/29/2011	
37-1-3	STRB	STRB	N3:T2:TPS2:1-1-3	PASS	8/29/2011	

37-1-4	STRB	STRB	N3:T2:TPS2:1-1-4	PASS	8/29/2011	
37-2-1	STRB	STRB	N3:T2:TPS2:2-1-1	PASS	8/29/2011	
37-2-2	STRB	STRB	N3:T2:TPS2:2-1-2	PASS	8/29/2011	
37-2-3	STRB	STRB	N3:T2:TPS2:2-1-3	PASS	8/29/2011	
37-2-4	STRB	STRB	N3:T2:TPS2:2-1-4	PASS	8/29/2011	
37-3-1	STRB	STRB	N3:T2:TPS2:3-1-1	PASS	8/29/2011	
37-3-2	STRB	STRB	N3:T2:TPS2:3-1-2	PASS	8/29/2011	
37-3-3	STRB	STRB	N3:T2:TPS2:3-1-3	PASS	8/29/2011	
37-3-4	STRB	STRB	N3:T2:TPS2:3-1-4	PASS	8/29/2011	
37-3-5	STRB	STRB	N3:T2:TPS2:3-1-5	PASS	8/29/2011	
38-2-1	STRB	STRB	N3:T2:TPS3:2-1-1	PASS	8/29/2011	
38-2-2	STRB	STRB	N3:T2:TPS3:2-1-2	PASS	8/29/2011	
38-2-3	STRB	STRB	N3:T2:TPS3:2-1-3	PASS	8/29/2011	
38-2-4	STRB	STRB	N3:T2:TPS3:2-1-4	PASS	8/29/2011	
38-2-5	STRB	STRB	N3:T2:TPS3:2-1-5	PASS	8/29/2011	
38-2-8	STRB	STRB	N3:T2:TPS3:2-1-8	PASS	8/29/2011	
SIG3						
SIG4	SIGA	SSIGNAL	SIGNAL CARD 1 CIRCUIT SPARE SIG4	UNUSED		
SIG5	SIGA	SSIGNAL	SIGNAL CARD 1 CIRCUIT SPARE SIG5	UNUSED		
SIG6	UNUSED		SIGNAL CARD 1 CIRCUIT SIG6	UNUSED		
SIG7	UNUSED		SIGNAL CARD 1 CIRCUIT SIG7	UNUSED		
SIG8	UNUSED		SIGNAL CARD 1 CIRCUIT SIG8	UNUSED		
SIG9	SPEAKERA	SPEAKER	N3:S1 SIG9	PASS	8/29/2011	
SIG10	SPEAKERA	SPEAKER	N3:S2 SIG10	PASS	8/29/2011	
SIG11	SPEAKERA	SPEAKER	SIGNAL CARD 10 CIRCUIT SIG11	UNUSED		
SIG12	SPEAKERA	SPEAKER	SIGNAL CARD 10 CIRCUIT SIG12	UNUSED		
SIG13	SPEAKERA	SPEAKER	SIGNAL CARD 10 CIRCUIT SIG13	UNUSED		
SIG14	SPEAKERA	SPEAKER	SIGNAL CARD 10 CIRCUIT SIG14	UNUSED		
SIG15	UNUSED		SIGNAL CARD 10 CIRCUIT SIG15	UNUSED		
SIG16	UNUSED		SIGNAL CARD 10 CIRCUIT SIG16	UNUSED		
SIG17	UNUSED		SIGNAL CARD 10 CIRCUIT SIG17	UNUSED		
SIG18	UNUSED		SIGNAL CARD 10 CIRCUIT SIG18	UNUSED		
SIG19	UNUSED		SIGNAL CARD 10 CIRCUIT SIG19	UNUSED		
SIG20	UNUSED		SIGNAL CARD 10 CIRCUIT SIG20	UNUSED		
SIG21	PHONEB	PHONE	FF PHONE 1 CKT ELEV 4/5 LOBBY SIG21	PASS	8/29/2011	
SIG22	PHONEB	PHONE	FF PHONE 3 CKT STAIRWELL B SIG22	PASS	8/29/2011	
SIG23	PHONEB	PHONE	FF PHONE 2 CKT STAIRWELL C SIG23	PASS	8/29/2011	
SIG24	SPEAKERA	SPEAKER	N3:S7 SIG24	PASS	8/29/2011	
SIG25	SPEAKERA	SPEAKER	N3:S8 SIG25	PASS	8/29/2011	
SIG26	SPEAKERA	SPEAKER	N3:S9 SIG26	PASS	8/29/2011	
SIG27	SPEAKERA	SPEAKER	SIGNAL CARD 14 CIRCUIT SIG27	UNUSED		
SIG28	SPEAKERA	SPEAKER	SIGNAL CARD 14 CIRCUIT SIG28	UNUSED		
SIG29	SPEAKERA	SPEAKER	SIGNAL CARD 14 CIRCUIT SIG29	UNUSED		
SIG30	UNUSED		SIGNAL CARD 14 CIRCUIT SIG30	UNUSED		
SIG31	UNUSED		SIGNAL CARD 14 CIRCUIT SIG31	UNUSED		
SIG32	UNUSED		SIGNAL CARD 14 CIRCUIT SIG32	UNUSED		
SIG33	UNUSED		SIGNAL CARD 14 CIRCUIT SIG33	UNUSED		
SIG34	UNUSED		SIGNAL CARD 14 CIRCUIT SIG34	UNUSED		
SIG35	UNUSED		SIGNAL CARD 14 CIRCUIT SIG35	UNUSED		
SIG36	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG37	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG38	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG39	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG40	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG41	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG42	UNUSED		SIGNAL CARD 16 CIRCUIT SIG42	UNUSED		
SIG43	UNUSED		SIGNAL CARD 16 CIRCUIT SIG43	UNUSED		
SIG44	UNUSED		SIGNAL CARD 16 CIRCUIT SIG44	UNUSED		
SIG45	UNUSED		SIGNAL CARD 16 CIRCUIT SIG45	UNUSED		
SIG46	UNUSED		SIGNAL CARD 16 CIRCUIT SIG46	UNUSED		
SIG47	UNUSED		SIGNAL CARD 16 CIRCUIT SIG47	UNUSED		
SIG48	PHONEB	PHONE	FF PHONE CKT 11 STAIRWELL I SIG48	PASS	9/2/2011	
SIG49	PHONEB	PHONE	SIGNAL CARD 18 CIRCUIT SIG49	UNUSED		
SIG50	PHONEB	PHONE	SIGNAL CARD 18 CIRCUIT SIG50	UNUSED		
SIG51	PHONEB	PHONE	FF PHONE 7 CKT STAIRWELL D SIG51	PASS	8/29/2011	
SIG52	PHONEB	PHONE	FF PHONE 5 CKT ELEV 8 LOBBIES SIG52	PASS	8/29/2011	
SIG53	PHONEB	PHONE	FF PHONE 6 CKT ELEV 6&7 LOBBIES SIG53	PASS	8/29/2011	
SIG54	PHONEB	PHONE	FF PHONE 7 CKT STAIRWELL D SIG54	PASS	8/29/2011	
SIG55	PHONEB	PHONE	FF PHONE 8 CKT STAIRWELL E SIG55	PASS	8/29/2011	
SIG56	PHONEB	PHONE	FF PHONE 9 CKT STAIRWELL F SIG56	PASS	8/29/2011	
SIG57	PHONEB	PHONE	FF PHONE 10 CKT STAIRWELL G SIG57	PASS	8/29/2011	
SIG58	PHONEB	PHONE	FF PHONE CKT N3 REM COMM CNTR SIG58	PASS	8/29/2011	
SIG59	PHONEB	PHONE	FF PHONE CKT REM ANNUN BY N1 SIG59	PASS	9/8/2011	
SIG60	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG61	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG62	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		

SIG63	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG64	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG65	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG66	UNUSED		SIGNAL CARD 23 CIRCUIT SIG63	UNUSED		
SIG67	UNUSED		SIGNAL CARD 23 CIRCUIT SIG64	UNUSED		
SIG68	UNUSED		SIGNAL CARD 23 CIRCUIT SIG65	UNUSED		
SIG69	UNUSED		SIGNAL CARD 23 CIRCUIT SIG66	UNUSED		
SIG70	UNUSED		SIGNAL CARD 23 CIRCUIT SIG67	UNUSED		
SIG71	UNUSED		SIGNAL CARD 23 CIRCUIT SIG68	UNUSED		
SIG72	SIGB	SSIGNAL	SIGNAL CARD 24 CIRCUIT SIG45	UNUSED		
SIG73	SIGB	SSIGNAL	SIGNAL CARD 24 CIRCUIT SIG46	UNUSED		
SIG74	SIGB	SSIGNAL	SIGNAL CARD 24 CIRCUIT SIG47	UNUSED		
SIG75	UNUSED		SIGNAL CARD 24 CIRCUIT SIG48	UNUSED		
SIG76	UNUSED		SIGNAL CARD 24 CIRCUIT SIG49	UNUSED		
SIG78	SPEAKERA	SPEAKER	N3:T1:S1 SIG78	PASS	8/29/2011	
SIG79	SPEAKERA	SPEAKER	N3:T1:S2 SIG79	PASS	8/29/2011	
SIG80	SPEAKERA	SPEAKER	N3:T1:S3 SIG80	PASS	8/29/2011	
SIG81	SPEAKERA	SPEAKER	SIGNAL CARD 29 CIRCUIT SIG81	UNUSED		
SIG82	SPEAKERA	SPEAKER	SIGNAL CARD 29 CIRCUIT SIG82	UNUSED		
SIG83	SPEAKERA	SPEAKER	SIGNAL CARD 29 CIRCUIT SIG83	UNUSED		
SIG84	UNUSED		SIGNAL CARD 29 CIRCUIT SIG57	UNUSED		
SIG85	UNUSED		SIGNAL CARD 29 CIRCUIT SIG58	UNUSED		
SIG86	UNUSED		SIGNAL CARD 29 CIRCUIT SIG59	UNUSED		
SIG87	UNUSED		SIGNAL CARD 29 CIRCUIT SIG60	UNUSED		
SIG88	UNUSED		SIGNAL CARD 29 CIRCUIT SIG61	UNUSED		
SIG89	UNUSED		SIGNAL CARD 29 CIRCUIT SIG62	UNUSED		
SIG90	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG91	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG92	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG93	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG94	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG95	SPEAKERB	SIGNAL	** Signal Circuit not available **	UNUSED		
SIG96	UNUSED		SIGNAL CARD 31 CIRCUIT SIG93	UNUSED		
SIG97	UNUSED		SIGNAL CARD 31 CIRCUIT SIG94	UNUSED		
SIG98	UNUSED		SIGNAL CARD 31 CIRCUIT SIG95	UNUSED		
SIG99	UNUSED		SIGNAL CARD 31 CIRCUIT SIG96	UNUSED		
SIG77	UNUSED		SIGNAL CARD 24 CIRCUIT SIG50	UNUSED		
SIG100	UNUSED		SIGNAL CARD 31 CIRCUIT SIG97	UNUSED		
SIG101	UNUSED		SIGNAL CARD 31 CIRCUIT SIG98	UNUSED		
SIG102	SIGB	SSIGNAL	SIGNAL CARD 33 CIRCUIT SIG102	UNUSED		
SIG103	SIGB	SSIGNAL	SIGNAL CARD 33 CIRCUIT SIG103	UNUSED		
SIG104	SIGB	SSIGNAL	SIGNAL CARD 33 CIRCUIT SIG104	UNUSED		
SIG105	UNUSED		SIGNAL CARD 33 CIRCUIT SIG102	UNUSED		
SIG106	UNUSED		SIGNAL CARD 33 CIRCUIT SIG103	UNUSED		
SIG107	UNUSED		SIGNAL CARD 33 CIRCUIT SIG104	UNUSED		
SIG108	SIGB	SQALERT	MECHANICAL WELL HORN /STROBES SIG108	PASS	8/29/2011	
SIG109	SIGB	SSIGNAL	SIGNAL CARD 34 CIRCUIT SIG109	UNUSED		
SIG110	SIGB	SSIGNAL	SIGNAL CARD 34 CIRCUIT SIG110	UNUSED		
SIG111	UNUSED		SIGNAL CARD 34 CIRCUIT SIG66	UNUSED		
SIG112	UNUSED		SIGNAL CARD 34 CIRCUIT SIG67	UNUSED		
SIG113	UNUSED		SIGNAL CARD 34 CIRCUIT SIG68	UNUSED		
SIG114	SPEAKERA	SPEAKER	N3:T2:S1 SIG114	PASS	8/29/2011	
SIG115	SPEAKERA	SPEAKER	N3:T2:S2 SIG115	PASS	8/29/2011	
SIG116	SPEAKERA	SPEAKER	N3:T2:S3 SIG116	PASS	8/29/2011	
SIG117	SPEAKERA	SPEAKER	N3:T2:S4 SIG117	PASS	8/29/2011	
SIG118	SPEAKERA	SPEAKER	SIGNAL CARD 39 CIRCUIT SIG118	UNUSED		
SIG119	SPEAKERA	SPEAKER	SIGNAL CARD 39 CIRCUIT SIG119	UNUSED		
SIG120	UNUSED		SIGNAL CARD 39 CIRCUIT SIG75	UNUSED		
SIG121	UNUSED		SIGNAL CARD 39 CIRCUIT SIG76	UNUSED		
SIG122	UNUSED		SIGNAL CARD 39 CIRCUIT SIG77	UNUSED		
SIG123	UNUSED		SIGNAL CARD 39 CIRCUIT SIG78	UNUSED		
SIG124	UNUSED		SIGNAL CARD 39 CIRCUIT SIG79	UNUSED		
SIG125	UNUSED		SIGNAL CARD 39 CIRCUIT SIG80	UNUSED		
SIG126	SIGB	SSIGNAL	SIGNAL CARD 44 CIRCUIT SIG126	UNUSED		
SIG127	SIGB	SSIGNAL	SIGNAL CARD 44 CIRCUIT SIG127	UNUSED		
SIG128	SIGB	SSIGNAL	SIGNAL CARD 44 CIRCUIT SIG128	UNUSED		
SIG129	UNUSED		SIGNAL CARD 44 CIRCUIT SIG126	UNUSED		
SIG130	UNUSED		SIGNAL CARD 44 CIRCUIT SIG127	UNUSED		
SIG131	UNUSED		SIGNAL CARD 44 CIRCUIT SIG128	UNUSED		
AUX3	RELAY	RELAY	AUX RELAY CARD 1 RELAY CKT SPARE AUX3	UNUSED		
AUX4	AUXPWR	AUXPWR	AUX POWER	UNUSED		
AUX5	RELAY	RELAY	AES WEST SPRINKLER ZN 4 TRIP AUX5	PASS	9/7/2011	Tested with Dick A. he left offline till Tuesday
AUX6	RELAY	RELAY	AES WEST SMOKES AND PULLS ZN 5 TRIP AUX6	PASS	9/7/2011	Tested with Dick A. he left offline till Tuesday
AUX7	RELAY	RELAY	AES West ZN Bypass Superv Signal to AES AUX7	PASS	9/7/2011	Tested with Dick A.
AUX8	RELAY	RELAY	AUX RELAY CARD 22 RELAY CKT AUX8	UNUSED		
AUX9	RELAY	RELAY	AUX RELAY CARD 22 RELAY CKT AUX9	UNUSED		

AUX10	RELAY	RELAY	AUX RELAY CARD 22 RELAY CKT AUX10	UNUSED		
AUX11	RELAY	RELAY	AUX RELAY CARD 22 RELAY CKT AUX11	UNUSED		
AUX12	RELAY	RELAY	AUX RELAY CARD 22 RELAY CKT AUX12	UNUSED		
AUX13	RELAY	RELAY	AUX RELAY CARD 24 RELAY CKT AUX13	UNUSED		
AUX14	AUXPWR	AUXPWR	AUX POWER	UNUSED		
AUX15	RELAY			UNUSED		
AUX16	RELAY			UNUSED		
AUX17	RELAY	RELAY	AUX RELAY CARD 32 RELAY CKT AUX17	UNUSED		
AUX18	RELAY	RELAY	AUX RELAY CARD 32 RELAY CKT AUX18	UNUSED		
AUX19	RELAY	RELAY	AUX RELAY CARD 32 RELAY CKT AUX19	UNUSED		
AUX20	RELAY	RELAY	AUX RELAY CARD 32 RELAY CKT AUX20	UNUSED		
AUX21	RELAY	RELAY	AUX RELAY CARD 32 RELAY CKT AUX21	UNUSED		
AUX22	RELAY	RELAY	AUX RELAY CARD 32 RELAY CKT AUX22	UNUSED		
AUX23	RELAY	RELAY	AUX RELAY CARD 33 RELAY CKT AUX23	UNUSED		
AUX24	AUXPWR	AUXPWR	AUX POWER	UNUSED		
AUX25	RELAY	RELAY	AUX RELAY CARD 34 RELAY CKT AUX23	UNUSED		
AUX26	AUXPWR	AUXPWR	AUX POWER	UNUSED		
AUX27	RELAY	RELAY	AUX RELAY CARD 42 RELAY CKT AUX25	UNUSED		
AUX28	RELAY	RELAY	AUX RELAY CARD 42 RELAY CKT AUX26	UNUSED		
AUX29	RELAY	RELAY	AUX RELAY CARD 42 RELAY CKT AUX27	UNUSED		
AUX30	RELAY	RELAY	AUX RELAY CARD 42 RELAY CKT AUX28	UNUSED		
AUX31	RELAY	RELAY	AUX RELAY CARD 42 RELAY CKT AUX29	UNUSED		
AUX32	RELAY	RELAY	AUX RELAY CARD 42 RELAY CKT AUX30	UNUSED		
AUX33	RELAY	RELAY	AUX RELAY CARD 42 RELAY CKT AUX31	UNUSED		
AUX34	RELAY	RELAY	AUX RELAY CARD 42 RELAY CKT AUX32	UNUSED		
AUX35	RELAY	RELAY	AUX RELAY CARD 44 RELAY CKT AUX35	UNUSED		
AUX36	AUXPWR	AUXPWR	AUX POWER	UNUSED		

FIRE ALARM AND EMERGENCY COMMUNICATION SYSTEM RECORD OF COMPLETION

To be completed by the system installation contractor at the time of system acceptance and approval.
It shall be permitted to modify this form as needed to provide a more complete and/or clear record.
Insert N/A in all unused lines.
Attach additional sheets, data, or calculations as necessary to provide a complete record.

1. PROPERTY INFORMATION

Name of property: Portland Jetport

Address:

Description of property: Steel and concreate fully sprinkled

Occupancy type: Airport

Name of property representative:

Address:

Phone: Fax: E-mail:

Authority having jurisdiction over this property: PFD

Phone: 207-874-8517 Fax: E-mail:

2. INSTALLATION, SERVICE, AND TESTING CONTRACTOR INFORMATION

Installation contractor for this equipment: ES Boulos

Address: 45 Bradley DR. Westbrook ME, 04092

License or certification number:

Phone: 207-464-3708 Fax: E-mail:

Service organization for this equipment: SimplexGrinnell

Address: 20 Thomas Dr Westbrook Maine

License or certification number: MS60019217

Phone: 842-6440 Fax: E-mail:

A contract for test and inspection in accordance with NFPA standards is in effect as of:

Contracted testing company:

Address:

Phone: Fax: E-mail:

Contract expires: Contract number: Frequency of routine inspections:

3. DESCRIPTION OF SYSTEM OR SERVICE

☐ Fire alarm system (nonvoice)

☒ Fire alarm with in-building fire emergency voice alarm communication system (EVACS)

☐ Mass notification system (MNS)

☐ Combination system, with the following components:

☐ Fire alarm ☐ EVACS ☐ MNS ☐ Two-way, in-building, emergency communication system

☐ Other (specify):

3. DESCRIPTION OF SYSTEM OR SERVICE *(continued)*

NFPA 72 edition: 2010 Additional description of system(s):

3.1 Control Unit

Manufacturer: SimplexGrinnell LP Model number: 4100ES

3.2 Mass Notification System ☒ This system does not incorporate an MNS

3.2.1 System Type:

☐ In-building MNS—combination

☐ In-building MNS—stand-alone ☐ Wide-area MNS ☐ Distributed recipient MNS

☐ Other (specify):

3.2.2 System Features:

☐ Combination fire alarm/MNS ☐ MNS autonomous control unit ☐ Wide-area MNS to regional national alerting interface

☐ Local operating console (LOC) ☐ Direct recipient MNS (DRMNS) ☐ Wide-area MNS to DRMNS interface

☐ Wide-area MNS to high-power speaker array (HPSA) interface ☐ In-building MNS to wide-area MNS interface

☐ Other (specify):

3.3 System Documentation

☒ An owner's manual, a copy of the manufacturer's instructions, a written sequence of operation, and a copy of the numbered record drawings are stored on site. Location: Fire alarm document box

3.4 System Software ☐ This system does not have alterable site-specific software.

Operating system (executive) software revision level: 1.01.02 rev 80

Site-specific software revision date: 9-8-2011 Revision completed by: JBH

☒ A copy of the site-specific software is stored on site. Location: Fire Alarm Document Box

3.5 Off-Premises Signal Transmission ☐ This system does not have off-premises transmission.

Name of organization receiving alarm signals with phone numbers:

Alarm: PFD Dispatch Phone: 207-874-8517

Supervisory: Phone:

Trouble: Phone:

Entity to which alarms are retransmitted: Phone:

Method of retransmission:

If Chapter 26, specify the means of transmission from the protected premises to the supervising station:

If Chapter 27, specify the type of auxiliary alarm system: ☐ Local energy ☐ Shunt ☐ Wired ☒ Wireless

4. CIRCUITS AND PATHWAYS

4.1 Signaling Line Pathways

4.1.1 Pathways Class Designations and Survivability

Pathways class: A Survivability level: 2 Quantity: 42
(See NFPA 72, Sections 12.3 and 12.4)

4.1.2 Pathways Utilizing Two or More Media

Quantity: Description:

4.1.3 Device Power Pathways

☐ No separate power pathways from the signaling line pathway

☒ Power pathways are separate but of the same pathway classification as the signaling line pathway

☐ Power pathways are separate and different classification from the signaling line pathway

4.1.4 Isolation Modules

Quantity: 3

4.2 Alarm Initiating Device Pathways

4.2.1 Pathways Class Designations and Survivability

Pathways class: Survivability level: Quantity:
(See NFPA 72, Sections 12.3 and 12.4)

4.2.2 Pathways Utilizing Two or More Media

Quantity: Description:

4.2.3 Device Power Pathways

☐ No separate power pathways from the initiating device pathway

☒ Power pathways are separate but of the same pathway classification as the initiating device pathway

☐ Power pathways are separate and different classification from the initiating device pathway

4.3 Non-Voice Audible System Pathways

4.3.1 Pathways Class Designations and Survivability

Pathways class: B Survivability level: 2 Quantity: 2
(See NFPA 72, Sections 12.3 and 12.4)

4.3.2 Pathways Utilizing Two or More Media

Quantity: Description:

4.3.3 Device Power Pathways

☒ No separate power pathways from the notification appliance pathway

☐ Power pathways are separate but of the same pathway classification as the notification appliance pathway

☐ Power pathways are separate and different classification from the notification appliance pathway

5. ALARM INITIATING DEVICES

5.1 Manual Initiating Devices

5.1.1 Manual Fire Alarm Boxes ☐ This system does not have manual fire alarm boxes.

Type and number of devices: Addressable: 28 Conventional: Coded: Transmitter:

Other (specify):

5.1.2 Other Alarm Boxes ☒ This system does not have other alarm boxes.

Description:

Type and number of devices: Addressable: Conventional: Coded: Transmitter:

Other (specify):

5.2 Automatic Initiating Devices

5.2.1 Smoke Detectors ☐ This system does not have smoke detectors.

Type and number of devices: Addressable: 72 Conventional:

Other (specify):

Type of coverage: ☐ Complete area ☒ Partial area ☐ Nonrequired partial area

Other (specify):

Type of smoke detector sensing technology: ☐ Ionization ☒ Photoelectric ☐ Multicriteria ☐ Aspirating ☐ Beam

Other (specify):

5.2.2 Duct Smoke Detectors ☒ This system does not have alarm-causing duct smoke detectors.

Type and number of devices: Addressable: Conventional:

Other (specify):

Type of coverage:

Type of smoke detector sensing technology: ☐ Ionization ☐ Photoelectric ☐ Aspirating ☐ Beam

5.2.3 Radiant Energy (Flame) Detectors ☒ This system does not have radiant energy detectors.

Type and number of devices: Addressable: Conventional:

Other (specify):

Type of coverage:

5.2.4 Gas Detectors ☒ This system does not have gas detectors.

Type of detector(s):

Number of devices: Addressable: Conventional:

Type of coverage:

5.2.5 Heat Detectors ☐ This system does not have heat detectors.

Type and number of devices: Addressable: 6 Conventional:

Type of coverage: ☐ Complete area ☒ Partial area ☐ Nonrequired partial area ☐ Linear ☐ Spot

Type of heat detector sensing technology: ☐ Fixed temperature ☒ Rate-of-rise ☐ Rate compensated

5. ALARM INITIATING DEVICES *(continued)*

5.2.6 Addressable Monitoring Modules ☐ This system does not have monitoring modules.

Number of devices: 27

5.2.7 Waterflow Alarm Devices ☐ This system does not have waterflow alarm devices.

Type and number of devices: Addressable: 20 Conventional: Coded: Transmitter:

5.2.8 Alarm Verification ☐ This system does not incorporate alarm verification.

Number of devices subject to alarm verification: 72 Alarm verification set for: 60 seconds

5.2.9 Presignal ☒ This system does not incorporate pre-signal.

Number of devices subject to presignal:

Describe presignal functions:

5.2.10 Positive Alarm Sequence (PAS) ☒ This system does not incorporate PAS.

Describe PAS:

5.2.11 Other Initiating Devices ☒ This system does not have other initiating devices.

Describe:

6. SUPERVISORY SIGNAL-INITIATING DEVICES

6.1 Sprinkler System Supervisory Devices ☐ This system does not have sprinkler supervisory devices.

Type and number of devices: Addressable: 27 Conventional: Coded: Transmitter:

Other (specify):

6.2 Fire Pump Description and Supervisory Devices ☒ This system does not have a fire pump.

Type fire pump: ☐ Electric pump ☐ Engine

Type and number of devices: Addressable: Conventional: Coded: Transmitter:

Other (specify):

6.2.1 Fire Pump Functions Supervised

☐ Power ☐ Running ☐ Phase reversal ☐ Selector switch not in auto ☐ Engine or control panel trouble ☐ Low fuel

Other (specify):

6.3 Duct Smoke Detectors (DSDs) ☐ This system does not have DSDs causing supervisory signals.

Type and number of devices: Addressable: 4 Conventional:

Other (specify):

Type of coverage:

Type of smoke detector sensing technology: ☐ Ionization ☒ Photoelectric ☐ Aspirating ☐ Beam

6.4 Other Supervisory Devices ☒ This system does not have other supervisory devices.

Describe:

7. MONITORED SYSTEMS

7.1 Engine-Driven Generator ☒ This system does not have a generator.

7.1.1 Generator Functions Supervised

☐ Engine or control panel trouble ☐ Generator running ☐ Selector switch not in auto ☐ Low fuel

☐ Other (specify):

7.2 Special Hazard Suppression Systems ☒ This system does not monitor special hazard systems.

Description of special hazard system(s):

7.3 Other Monitoring Systems ☒ This system does not monitor other systems.

Description of special hazard system(s):

8. ANNUNCIATORS ☐ This system does not have annunciators.

8.1 Location and Description of Annunciators

Location 1: West building new section by escalators. Remote Command Center

Location 2: East building existing section by down escalator. Remote Command Center

Location 3:

9. ALARM NOTIFICATION APPLIANCES

9.1 In-Building Fire Emergency Voice Alarm Communication System ☐ This system does not have an EVACS.

Number of single voice alarm channels: 1 Number of multiple voice alarm channels: 7

Number of speakers: 187 Number of speaker circuits: 13

Location of amplification and sound-processing equipment: IDF 1512, MDF 2518,IDF 3508

Location of paging microphone stations:

Location 1: Remote command center West Bldg

Location 2: Remoted Command center East Bldg

Location 3:

9.2 Nonvoice Notification Appliances ☐ This system does not have nonvoice notification appliances.

Horns: With visible: Bells: With visible:

Chimes: With visible:

Visible only: 27 Other (describe): Speaker Strobes 182

9.3 Notification Appliance Power Extender Panels ☐ This system does not have power extender panels.

Quantity:

Locations:

10. MASS NOTIFICATION CONTROLS, APPLIANCES, AND CIRCUITS ☒ This system does not have an MNS.

10.1 MNS Local Operating Consoles

Location 1:

Location 2:

Location 3:

10.2 High-Power Speaker Arrays

Number of HPSA speaker initiation zones:

Location 1:

Location 2:

Location 3:

10.3 Mass Notification Devices

Combination fire alarm/MNS visible appliances: MNS-only visible appliances:

Textual signs: Other (describe):

Supervision class:

10.3.1 Special Hazard Notification

☐ This system does not have special suppression predischarge notification.

☐ MNS systems DO NOT override notification appliances required to provide special suppression predischarge notification.

11. TWO-WAY EMERGENCY COMMUNICATION SYSTEMS

11.1 Telephone System

☐ This system does not have a two-way telephone system.

Number of telephone jacks installed: 20 Number of warden stations installed: 3

Number of telephone handsets stored on site: 6

Type of telephone system installed: ☒ Electrically powered ☐ Sound powered

11.2 Two-Way Radio Communications Enhancement System

☒ This system does not have a two-way radio communications enhancement system.

Percentage of area covered by two-way radio service: Critical areas: % General building areas: %

Amplification component locations:

Inbound signal strength: dBm Outbound signal strength: dBm

Donor antenna isolation is: dB above the signal booster gain

Radio frequencies covered:

Radio system monitor panel location:

11. TWO-WAY EMERGENCY COMMUNICATION SYSTEMS *(continued)*

11.3 Area of Refuge (Area of Rescue Assistance) Emergency Communications Systems

☒ This system does not have an area of refuge (area of rescue assistance) emergency communications system.

Number of stations: Location of central control point:

Days and hours when central control point is attended:

Location of alternate control point:

Days and hours when alternate control point is attended:

11.4 Elevator Emergency Communications Systems

☒ This system does not have an elevator emergency communications system.

Number of elevators with stations: Location of central control point:

Days and hours when central control point is attended:

Location of alternate control point:

Days and hours when alternate control point is attended:

11.5 Other Two-Way Communication Systems

Describe:

12. CONTROL FUNCTIONS

This system activates the following control fuctions:

☒ Hold-open door releasing devices ☒ Smoke management ☒ HVAC shutdown ☐ F/S dampers

☒ Door unlocking ☒ Elevator recall ☐ Fuel source shutdown ☐ Extinguishing agent release

☒ Elevator shunt trip ☐ Mass notification system override of fire alarm notification appliances

Other (specify):

12.1 Addressable Control Modules ☐ This system does not have control modules.

Number of devices: 54

Other (specify):

13. SYSTEM POWER

13.1 Control Unit

13.1.1 Primary Power

Input voltage of control panel: 120 Control panel amps: 12

Overcurrent protection: Type: breaker Amps: 20

Location (of primary supply panel board): ELLSP Ckt 2 Generator Room LVL 3 RM 3517

Disconnecting means location: Same as above

13.1.2 Engine-Driven Generator ☐ This system does not have a generator.

Location of generator: GENERATOR ROOM #3517

Location of fuel storage: UNDERGROUND STORAGE TANK Type of fuel: DIESEL

13. SYSTEM POWER *(continued)*

13.1.3 Uninterruptible Power System ☒ This system does not have a UPS.

Equipment powered by a UPS system:

Location of UPS system:

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours): In alarm mode (minutes):

13.1.4 Batteries

Location: Type: Nominal voltage: Amp/hour rating:

Calculated capacity of batteries to drive the system:

In standby mode (hours): In alarm mode (minutes):

☐ Batteries are marked with date of manufacture ☐ Battery calculations are attached

13.2 In-Building Fire Emergency Voice Alarm Communication System or Mass Notification System

☐ This system does not have an EVACS or MNS system.

13.2.1 Primary Power

Input voltage of EVACS or MNS panel: EVACS or MNS panel amps:

Overcurrent protection: Type: Amps:

Location (of primary supply panel board): Built in to the fire Alarm Panel

Disconnecting means location:

13.2.2 Engine-Driven Generator ☐ This system does not have a generator.

Location of generator: GENERATOR RM #3517

Location of fuel storage: UNDERGROUND STORAGE TANK Type of fuel: DIESEL

13.2.3 Uninterruptible Power System ☒ This system does not have a UPS.

Equipment powered by a UPS system:

Location of UPS system:

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours): In alarm mode (minutes):

13.2.4 Batteries

Location: Type: Nominal voltage: Amp/hour rating:

Calculated capacity of batteries to drive the system:

In standby mode (hours): In alarm mode (minutes):

☐ Batteries are marked with date of manufacture ☐ Battery calculations are attached

13. SYSTEM POWER *(continued)*

13.3 Notification Appliance Power Extender Panels ☐ This system does not have power extender panels.

13.3.1 Primary Power

Input voltage of power extender panel(s): 120 VAC Power extender panel amps: 12

Overcurrent protection: Type: Ckt Breaker Amps: 20

Location (of primary supply panel board): ELLSP Ckts 4,6,&8 Generator Rm LVL 3 Rm 3517

Disconnecting means location: Same as Primary Panel

13.3.2 Engine-Driven Generator ☒ This system does not have a generator.

Location of generator:

Location of fuel storage: Type of fuel:

13.3.3 Uninterruptible Power System ☒ This system does not have a UPS.

Equipment powered by a UPS system:

Location of UPS system:

Calculated capacity of UPS batteries to drive the system components connected to it:

In standby mode (hours): In alarm mode (minutes):

13.3.4 Batteries

Location: Transponder Panels Type: SLA Nominal voltage: 24 Amp/hour rating: Qty 4 33 AH each

Calculated capacity of batteries to drive the system:

In standby mode (hours): 24.1 In alarm mode (minutes): 15 min

☒ Batteries are marked with date of manufacture ☐ Battery calculations are attached

14. RECORD OF SYSTEM INSTALLATION

Fill out after all installation is complete and wiring has been checked for opens, shorts, ground faults, and improper branching, but before conducting operational acceptance tests.

This is a: ☒ New system ☐ Modification to an existing system Permit number: 2011-06-1459-FAFS

The system has been installed in accordance with the following requirements: (Note any or all that apply.)

☒ *NFPA 72,* Edition: 2010

☒ *NFPA 70, National Electrical Code,* Article 760, Edition: 2011

☒ Manufacturer's published instructions

Other (specify):

System deviations from referenced NFPA standards:

Signed: Printed name: Jesse Klimaytis Date: 9-12-11

Organization: ES Boulos Title: Project Manager Phone: 207-464-3708

15. RECORD OF SYSTEM OPERATIONAL ACCEPTANCE TEST

☒ New system

All operational features and functions of this system were tested by, or in the presence of, the signer shown below, on the date shown below, and were found to be operating properly in accordance with the requirements for the following:

☐ Modifications to an existing system

All newly modified operational features and functions of the system were tested by, or in the presence of, the signer shown below, on the date shown below, and were found to be operating properly in accordance with the requirements of the following:

☒ *NFPA 72,* Edition: 2010

☒ *NFPA 70, National Electrical Code,* Article 760, Edition: 2011

☒ Manufacturer's published instructions

Other (specify):

☒ Individual device testing documentation [Inspection and Testing Form (Figure 14.6.2.4) is attached]

Signed:		Printed name:	John Hale	Date:	9-9-2011
Organization:	SimplexGrinnell LP	Title:	TR	Phone:	207-842-6440

16. CERTIFICATIONS AND APPROVALS

16.1 System Installation Contractor:

This system, as specified herein, has been installed and tested according to all NFPA standards cited herein.

Signed:		Printed name:	Jesse Klimatyis	Date:	9-12-11
Organization:	ES Boulos	Title:	Project Manager	Phone:	207-464-3708

16.2 System Service Contractor:

The undersigned has a service contract for this system in effect as of the date shown below.

Signed:	Same as 15	Printed name:		Date:	
Organization:		Title:		Phone:	

16.3 Supervising Station:

This system, as specified herein, will be monitored according to all NFPA standards cited herein.

Signed:		Printed name:		Date:	
Organization:		Title:		Phone:	

16. CERTIFICATIONS AND APPROVALS *(continued)*

16.4 Property or Owner Representative:

This system, as specified herein, will be monitored according to all NFPA standards cited herein.

Signed: R S Williams Printed name: ROY WILLIAMS Date: 9.13.11

Organization: JETPORT Title: DEP. DIRECTOR Phone: 207 756 8026

16.5 Authority Having Jurisdiction:

I have witnessed a satisfactory acceptance test of this system and find it to be installed and operating properly in accordance with its approved plans and specifications, with its approved sequence of operations, and with all NFPA standards cited herein.

Signed:	Printed name:	Date:
Organization:	Title:	Phone:

4. Hydrant Flow Test and Sprinkler Certificates

CITY OF PORTLAND, MAINE - FIRE PREVENTION BUREAU

Test and Maintenance Report Private Fire Hydrant

Property/Business Information: Chart: _____ Block: _____ Lot: _____

Property Address: 1001 WESTBROOK ST. PORTLAND Zip Code: _____

Hydrant # / Location(attach map): A1 / NEXT TO MAIN SWITCHGEAR ROOM

Business/Owner Name: PORTLAND JETPORT

Contact Person: MARK STEVENS Phone No: 756-8326

Mailing Address: 1001 WESTBROOK ST PORTLAND, ME Zip Code: 04102

Test Type	
New Installation	[X]
Annual	[ ]
5 Year Flow Test	[ ]
Other	
Describe:	

Please be advised that we (owner / contractor) have made the following maintenance and test of the fire hydrant in accordance with National Fire Protection Standards 25, 24 and 291. This form must be completed for each hydrant located on the premises.

CONTACT THE PORTLAND WATER DISTRICT TO COORDINATE PRIOR TO FLOWING ANY FIRE HYDRANT

Report of private fire hydrant service condition (new installation, annual and 5-year flow test):

Criteria	Status (Pass/Fail)	Corrective Action (Identify)
Accessibility (clear/unobstructed space all around Private fire hydrant shall be no less than three feet)		
Leaks in outlets or at top of hydrant (no leakage allowed)		
Proper drainage from hydrant barrel		
Cracks in hydrant barrel/flange		
Tightness of outlets (wrench tight)		
Worn or incorrect outlet threads		
Worn hydrant operating nut		
Hydrant has 4 ½" steamer port		

IF THE PRIVATE FIRE HYDRANT IS FOUND NOT SERVICEABLE, IMMEDIATELY NOTIFY THE DISPATCH CENTER AT 874-8576, COVER AND SECURE THE HYDRANT WITH A BAG, AND THEN NOTIFY FIRE PREVENTION AT 874-8400.

Barrel Flow Test (new installation or annual): **Checked boxes below indicate "yes"**

Hydrant fully opened [X] All foreign material cleared [ ]

Flow duration greater than one minute [X] Barrel is plugged and pumped out [X]

Maintenance (new installation or annual):

Weeds and obstructions cleared from within three feet of hydrant [X] Hydrant caps and threads inspected [ ]

Rust and scale removed [ ] Lubricated [ ] flagged [ ]

Marking (new installation or annual):

Painted [ ] (Bonnet - Gray) (All paint shall be Rust-Oleum brand or equal)
(Caps- Silver)
(Barrel- Red)
(Bonnet Flange – per table)

Flow (gpm)	Class	Color
< 500	C	RED
500-999	B	ORANGE
1000-1499	A	GREEN
≥1500	AA	LIGHT BLUE

3" red hydrant number painted on street side of the bonnet – starting with 1 at the furthest hydrant from the complex or street entrance

High Pressure Hydrants (static pressures ≥ 125 psi) shall be marked "HP" before the hydrant number (ex. HP-1, HP-2, etc.)

Flow test (new installation, once every five years thereafter, or if previous flow report not available):

Hydrant flow testing per NFPA 24 Annex C. Attach NFPA *Hydrant Flow Test Report* (See NFPA 24 Figure C.4.11.2)

Certification: I hereby certify the foregoing data to be correct and the statements to be true.

Testing company: DEAN & ALLYN, INC Phone No: 657-5646 FAX No: 657-5647

Address: 116 LEWISTON ROAD City: Gray State: ME Zip Code: 04039

Tester's name (print): TED CLARKE Tester's signature: Ted Clarke

Test date: 09 / 24 / 11 (MM / DD / YY) Contractor's Lic. # 262

E-MAIL COMPLETED FORM(S) AND MAP TO fireinspector@portlandmaine.gov

Hydrant Flow Test Report

Location PORTLAND JETPORT Date 9/24/2011

Test made by TED CLARKE Time 7:45 AM

Representative of DEAN & ALLYN, INC

Witness MIKE JOHNSON - TURNER CONSTRUCTION

State purpose of test TO DETERMINE FLOW FROM NEW HYDRANT SO IT CAN BE COLOR CODED

Consumption rate during test _____

If pumps affect test, indicate pumps operating _____

Flow hydrants:	A_1	A_2	A_3	A_4	
Size nozzle	4½"				
Pitot reading	26				
Discharge coefficient	.9				Total GPM
GPM	2781				2781

Static B 86 psi Residual B 73 psi

Projected results @20 psi Residual 6785 gpm; or @ ___ psi Residual ___ gpm

Remarks: HYDRANT LOCATED NEXT TO STAIR B AND MAIN SWITCH GEAR ROOM

Location map: Show line sizes and distance to next cross-connected line. Show valves and hydrant branch size. Indicate north. Show flowing hydrants – Label A_1, A_2, A_3, A_4. Show location of static and residual – Label B.

Indicate B Hydrant _____ Sprinkler _____ Other (identify) _____

 NFPA 24

CITY OF PORTLAND, MAINE – FIRE PREVENTION BUREAU

Test and Maintenance Report – Private Fire Hydrant

Property/Business Information: Chart: _____ Block: _____ Lot: _____

Property Address: 1001 WESTBROOK ST. PORTLAND Zip Code: _____

Hydrant # / Location (attach map): A2 / AIR SIDE NEAR LOADING DOCK

Business/Owner Name: PORTLAND JETPORT

Contact Person: MARK STEVENS Phone No: 756-8326

Mailing Address: 1001 WESTBROOK ST, PORTLAND, ME Zip Code: 04101

Test Type	
New Installation	[X]
Annual	[ ]
5 Year Flow Test	[ ]
Other	
Describe:	

Please be advised that we (owner / contractor) have made the following maintenance and test of the fire hydrant in accordance with National Fire Protection Standards 25, 24 and 291. This form must be completed for each hydrant located on the premises.

CONTACT THE PORTLAND WATER DISTRICT TO COORDINATE PRIOR TO FLOWING ANY FIRE HYDRANT

Report of private fire hydrant service condition (new installation, annual and 5-year flow test):

Criteria	Status (Pass/Fail)	Corrective Action (Identify)
Accessibility (clear/unobstructed space all around Private fire hydrant shall be no less than three feet)		
Leaks in outlets or at top of hydrant (no leakage allowed)		
Proper drainage from hydrant barrel		
Cracks in hydrant barrel/flange		
Tightness of outlets (wrench tight)		
Worn or incorrect outlet threads		
Worn hydrant operating nut		
Hydrant has 4 ½" steamer port		

IF THE PRIVATE FIRE HYDRANT IS FOUND NOT SERVICEABLE, IMMEDIATELY NOTIFY THE DISPATCH CENTER AT 874-8576, COVER AND SECURE THE HYDRANT WITH A BAG, AND THEN NOTIFY FIRE PREVENTION AT 874-8400.

Barrel Flow Test (new installation or annual):

Hydrant fully opened [X]

Flow duration greater than one minute [X]

Checked boxes below indicate "yes"

All foreign material cleared [ ]

Barrel is plugged and pumped out [X]

Maintenance (new installation or annual):

Weeds and obstructions cleared from within three feet of hydrant [X] Hydrant caps and threads inspected [ ]

Rust and scale removed [ ] Lubricated [ ] flagged [ ]

Marking (new installation or annual):

Painted [ ] (Bonnet – Gray) (All paint shall be Rust-Oleum brand or equal)
(Caps- Silver)
(Barrel- Red)
(Bonnet Flange – per table)

Flow (gpm)	Class	Color
< 500	C	RED
500-999	B	ORANGE
1000-1499	A	GREEN
≥1500	AA	LIGHT BLUE

3" red hydrant number painted on street side of the bonnet – starting with 1 at the furthest hydrant from the complex or street entrance

High Pressure Hydrants (static pressures ≥ 125 psi) shall be marked "HP" before the hydrant number (ex. HP-1, HP-2, etc.)

Flow test (new installation, once every five years thereafter, or if previous flow report not available):

Hydrant flow testing per NFPA 24 Annex C. Attach NFPA *Hydrant Flow Test Report* (See NFPA 24 Figure C.4.11.2)

Certification: I hereby certify the foregoing data to be correct and the statements to be true.

Testing company: DEAN & ALLYN, INC Phone No: 657-5646 FAX No: 657-5647

Address: 116 LEWISTON ROAD City: Gray State: ME Zip Code: 04039

Tester's name (print): TED CLARKE Tester's signature: Ted Clarke

Test date: 09 / 24 / 11 (MM / DD / YY) Contractor's Lic. # 262

E-MAIL COMPLETED FORM(S) AND MAP TO fireinspector@portlandmaine.gov

Hydrant Flow Test Report

Location PORTLAND JETPORT Date 9/24/2011

Test made by TED CLARKE Time 8:10 AM

Representative of DEAN & ALLYN, INC

Witness MIKE JOHNSON - TURNER CONSTRUCTION

State purpose of test TO DETERMINE FLOW FROM NEW HYDRANT SO IT CAN BE COLOR CODED

Consumption rate during test _____

If pumps affect test, indicate pumps operating _____

Flow hydrants:	A_1	A_2	A_3	A_4	
Size nozzle		4½"			
Pitot reading		18			
Discharge coefficient		.9			Total GPM
GPM		2313			2313

Static B 86 psi Residual B 79 psi

Projected results @20 psi Residual ____ gpm; or @ ____ psi Residual ____ gpm

Remarks: HYDRANT LOCATED ON AIR SIDE NEAR LOADING DOCK

Location map: Show line sizes and distance to next cross-connected line. Show valves and hydrant branch size. Indicate north. Show flowing hydrants – Label A_1, A_2, A_3, A_4. Show location of static and residual – Label B.

Indicate B Hydrant _____ Sprinkler _____ Other (identify) _____

 NFPA 24

CITY OF PORTLAND, MAINE – FIRE PREVENTION BUREAU

Test and Maintenance Report – Private Fire Hydrant

Property/Business Information: Chart: _____ Block: _____ Lot: _____

Property Address: 1001 WESTBROOK ST. PORTLAND Zip Code: _____

Hydrant # / Location(attach map): A-3 / MAIN ROAD NEAR PARKING LOT ENTRANCE

Business/Owner Name: PORTLAND JETPORT

Contact Person: MARK STEVENS Phone No: 756-8326

Mailing Address: 1001 WESTBROOK ST. PORTLAND ME Zip Code: 04101

Test Type	
New Installation	[X]
Annual	[ ]
5 Year Flow Test	[ ]
Other	
Describe:	

Please be advised that we (owner / contractor) have made the following maintenance and test of the fire hydrant in accordance with National Fire Protection Standards 25, 24 and 291. This form must be completed for each hydrant located on the premises.

CONTACT THE PORTLAND WATER DISTRICT TO COORDINATE PRIOR TO FLOWING ANY FIRE HYDRANT

Report of private fire hydrant service condition (new installation, annual and 5-year flow test):

Criteria	Status (Pass/Fail)	Corrective Action (Identify)
Accessibility (clear/unobstructed space all around Private fire hydrant shall be no less than three feet)		
Leaks in outlets or at top of hydrant (no leakage allowed)		
Proper drainage from hydrant barrel		
Cracks in hydrant barrel/flange		
Tightness of outlets (wrench tight)		
Worn or incorrect outlet threads		
Worn hydrant operating nut		
Hydrant has 4 ½" steamer port		

IF THE PRIVATE FIRE HYDRANT IS FOUND NOT SERVICEABLE, IMMEDIATELY NOTIFY THE DISPATCH CENTER AT 874-8576, COVER AND SECURE THE HYDRANT WITH A BAG, AND THEN NOTIFY FIRE PREVENTION AT 874-8400.

Barrel Flow Test (new installation or annual): Checked boxes below indicate "yes"

Hydrant fully opened [X] All foreign material cleared [ ]

Flow duration greater than one minute [X] Barrel is plugged and pumped out [X]

Maintenance (new installation or annual):

Weeds and obstructions cleared from within three feet of hydrant [X] Hydrant caps and threads inspected [ ]

Rust and scale removed [ ] Lubricated [ ] flagged [ ]

Marking (new installation or annual):

Painted [ ] (Bonnet – Gray) (All paint shall be Rust-Oleum brand or equal)
(Caps- Silver)
(Barrel- Red)
(Bonnet Flange – per table)

Flow (gpm)	Class	Color
< 500	C	RED
500-999	B	ORANGE
1000-1499	A	GREEN
≥1500	AA	LIGHT BLUE

3" red hydrant number painted on street side of the bonnet – starting with 1 at the furthest hydrant from the complex or street entrance

High Pressure Hydrants (static pressures ≥ 125 psi) shall be marked "HP" before the hydrant number (ex. HP-1, HP-2, etc.)

Flow test (new installation, once every five years thereafter, or if previous flow report not available):

Hydrant flow testing per NFPA 24 Annex C. Attach NFPA *Hydrant Flow Test Report* (See NFPA 24 Figure C.4.11.2)

Certification: I hereby certify the foregoing data to be correct and the statements to be true.

Testing company: DEAN & ALLYN INC Phone No: 657-5646 FAX No: 657-5647

Address: 116 LEWISTON ROAD City: Gray State: ME Zip Code: 04039

Tester's name (print): TED CLARKE Tester's signature: Ted Clarke

Test date: 09 / 24 / 11 (MM / DD / YY) Contractor's Lic. # 262

E-MAIL COMPLETED FORM(S) AND MAP TO fireinspector@portlandmaine.gov

Hydrant Flow Test Report

Location PORTLAND JETPORT Date 9/24/2011

Test made by TED CLARKE Time 8:25 AM

Representative of DEAN & ALLYN, INC

Witness MIKE JOHNSON - TURNER CONSTRUCTION

State purpose of test TO DETERMINE FLOW FROM NEW HYDRANT SO IT CAN BE COLOR CODED

Consumption rate during test

If pumps affect test, indicate pumps operating

Flow hydrants:	A_1	A_2	A_3	A_4	
Size nozzle			2½"	2½"	
Pitot reading			18	27	
Discharge coefficient			.9	.9	Total GPM
GPM			712	872	1584

Static B 86 psi Residual B 80 psi

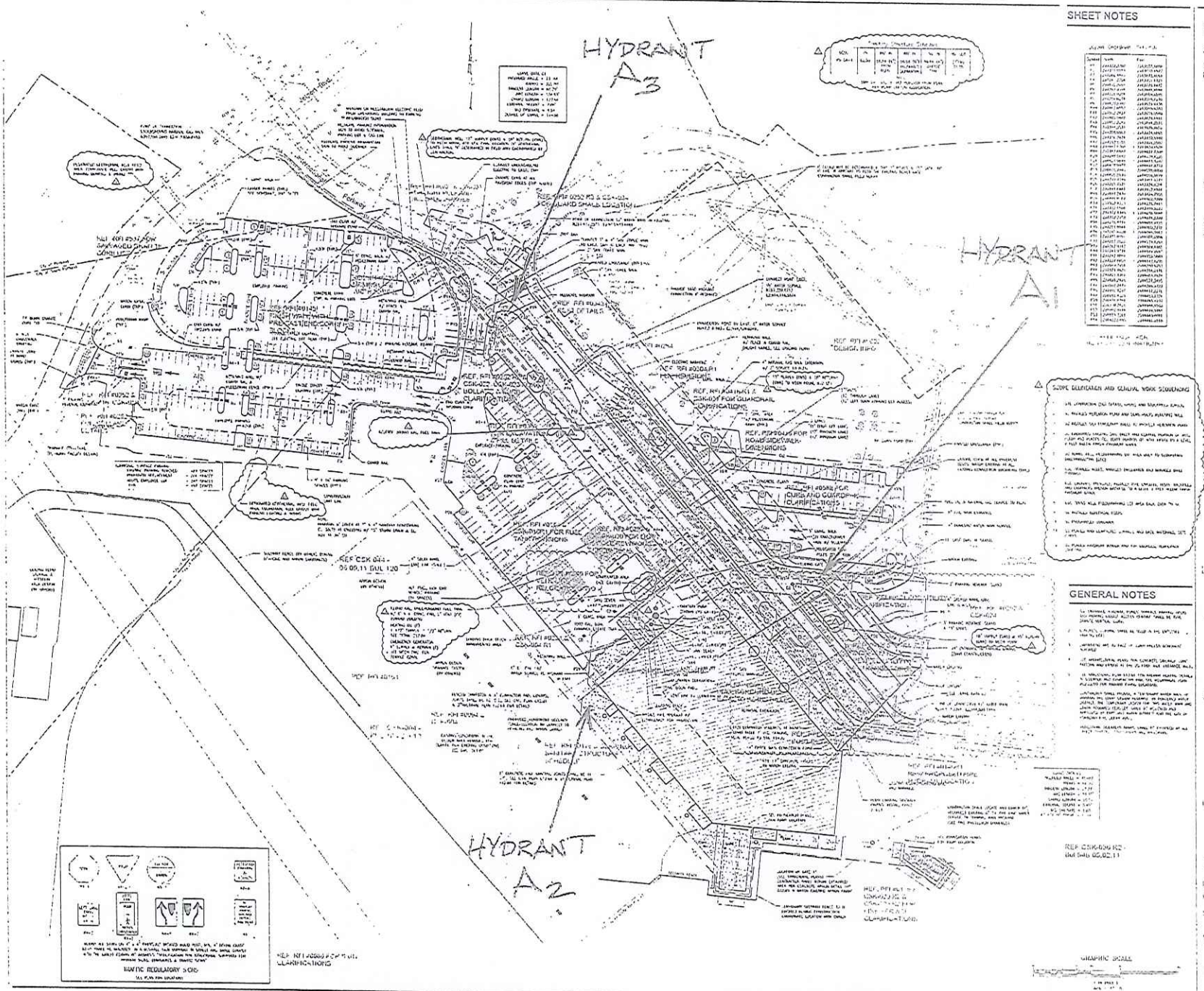
Projected results @20 psi Residual ____ gpm; or @ ____ psi Residual ____ gpm

Remarks: HYDRANT LOCATED ON MAIN ROAD NEXT TO PARKING LOT ENTRANCE

Location map: Show line sizes and distance to next cross-connected line. Show valves and hydrant branch size. Indicate north. Show flowing hydrants – Label A_1, A_2, A_3, A_4. Show location of static and residual – Label B.

Indicate B Hydrant ____ Sprinkler ____ Other (identify) ____

 NFPA 24



Portland International Jetport
1001 Westbrook Street
Portland, Maine 04102

Gensler

Sebago Technics, Inc.

Turner Construction
PCO-065
06-07-2010

C02.01

C949

State of Maine
Department of Public Safety
Fire Sprinkler System Permit

9509

Portland Jetport Terminal Expansion

Located at: Portland Jetport
In the Town of: Portland
Occupancy/Use: Airport Terminal Building
Type of System: NFPA 13

Permission is hereby given to:

Dean & Allyn, Inc.
PO Box 709
Gray, ME 04039
Contractor License # **262**

to begin installation according to plans submittal approved by the Office of State Fire Marshal.
The submittal is filed under log # **2101360** , and no departure from the application submittal shall be made without prior approval in writing. This permit is issued under the provisions of Title 32, Chapter 20, Section 12004-I. Nothing herein shall excuse the holder of this permit from failure to comply with local ordinances, zoning laws, or other pertinent legal restrictions. This permit shall be displayed at the construction site or be made readily available.

This permit was issued on **5/17/2011** for a fee paid of **$2,396.00**

This permit will expire at midnight on ***Sunday, November 13, 2011***

The expiration date applies only if the installation has not begun by that date and no permission has been granted to extend the date. Once installation begins, then the permit is valid for however long it takes to complete the installation, assuming that the work is fairly continuous.

John E Morris

John E. Morris
Commissioner

The type of Fire Department Connection and its location is to be according to the Local Fire Department

Within 30 days of the completion of a new fire sprinkler system or an addition to an existing fire sprinkler system, a fire sprinkler system contractor shall provide to the Office of State Fire Marshal a copy of this permit signed and dated by the certified Responsible Managing Supervisor representing that the fire sprinkler system has been installed according to specifications of the approved plan to the best of the supervisor's knowledge, information, and belief. This requirement is part of the sprinkler law, and neglect of this duty is grounds to not renew the contractor's license to do work in the State of Maine. All renewed sprinkler licenses are good for two years and expire on a June 30th.

Job completed, tested and verified by date of 8/31/11

RMS for this job: Stewart Dana A.

RMS Signature: Dana A Stewart

PHASE I

STAIR I STAND PIPE

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

roperty Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: 6-27-11

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): STAIR I STANDPIPE

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator N/A

Type	Make	Model	Max. Time to Operate Through Insp. Test

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: N/A
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: N/A
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 75 psi.
   b. Residual pressure with valve in test connection open wide 65 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☒ Yes ☐ No
7. Flushed by installer of underground piping ☒ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: 0
2. Locations: _____
3. Number removed: 0

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC.
2. Tests witnessed by:
   For property owner (Signed): _____
   Title: AGSA SUPER Date: 6/27/11
   For sprinkler contractor (Signed): _____
   Title: Foreman Date: 6-27-11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

LEVEL 1 STAND PIPE

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

roperty Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: _____

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): LEVEL 1 STANDPIPE

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator N/A

Type	Make	Model	Max. Time to Operate Through Insp. Test

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: N/A
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: N/A
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 85 psi.
   b. Residual pressure with valve in test connection open wide 70 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☐ Yes ☐ No
7. Flushed by installer of underground piping ☐ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: _____
2. Locations: _____
3. Number removed: _____

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN INC.
2. Tests witnessed by:
   For property owner (Signed): _____ Date: 7/29/11
   Title: ASST. SUPT.
   For sprinkler contractor (Signed): _____
   Title: Foreman Date: 7/29/11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

LEVEL 2 STANDPIPE

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

Property Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: _____

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): LEVEL 2 STANDPIPE

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator N/A

Type	Make	Model	Max. Time to Operate Through Insp. Test

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: N/A
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: N/A
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 80 psi.
   b. Residual pressure with valve in test connection open wide 55 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☐ Yes ☐ No
7. Flushed by installer of underground piping ☐ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: _____
2. Locations: _____
3. Number removed: _____

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC.
2. Tests witnessed by:
   For property owner (Signed): _____
   Title: ASST. SUPER Date: 7/29/11
   For sprinkler contractor (Signed): _____
   Title: Foreman Date: 7/29/11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

LEVEL 3 STANDPIPE

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

Property Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: _____

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): LEVEL 3 STANDPIPE

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator N/A

Type	Make	Model	Max. Time to Operate Through Insp. Test

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: N/A
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: N/A
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 80 psi.
   b. Residual pressure with valve in test connection open wide 55 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☐ Yes ☐ No
7. Flushed by installer of underground piping ☐ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: _____
2. Locations: _____
3. Number removed: _____

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC.
2. Tests witnessed by:
   For property owner (Signed): _____
   Title: ASST. SUPERINTENDENT Date: 7/29/11
   For sprinkler contractor (Signed): _____
   Title: Foreman Date: 7/28/11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

UNDERBELLY & TICKET HALL SPR ZONE .1-1

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

Property Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: 4-8-11

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): UNDERBELLY

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature
TYCO	RF11	2010	1/2	126	155°
TYCO	DS-C	2011	1/2	246	155°

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate Through Insp. Test
VANE	POTTER	VSR	33 Sec

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D.
1. Time to trip through test connection*: N/A
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D.
1. Time to trip through test connection*: N/A
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: N/A
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: N/A
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 75 psi.
   b. Residual pressure with valve in test connection open wide 65 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☐ Yes ☐ No
7. Flushed by installer of underground piping ☐ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: 0
2. Locations: —
3. Number removed: 0

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC.
2. Tests witnessed by:
   For property owner (Signed): [signature] TCCo
   Title: ASST. SUPERINTENDENT Date: 4/8/11
   For sprinkler contractor (Signed): [signature]
   Title: Foreman Date: 4/8/11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*
[signature] TCCo 5/3/11

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

LEVEL 1 - TICKET HALL HIGH CEILING - SPR ZONE 1-2

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

Property Name: Portland Jetport Address: 1001 Westbrook St. Portland ME Date: 4/8/11

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address:
3. Installation conforms to accepted plans ☑ Yes ☐ No
4. Equipment used is approved ☑ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☑ Yes ☐ No
   b. Care and maintenance instructions ☑ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): Level 4 Ticketing

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature
TYCO	RF11	2010	1/2	50	155°

F. Pipe and Fittings
1. Type of Pipe: Black Iron Sch 40 & 10
2. Type of Fittings: Victaulic / Cast Iron

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate Through Insp. Test
Vane	Potter		35 sec

H. Dry-Pipe Valve
Make, Model and Serial Number:

N **Quick Opening Device (Q.O.D.)**
Make, Model and Serial Number:

J. Dry-Pipe System Operating Test Without Q.O.D.
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D.
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: _____
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: _____
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested ☐ Yes ☐ No N/A
3. Equipment operates properly ☑ Yes ☐ No
4. 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 or stopping leaks? ☑ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 80 psi.
   b. Residual pressure with valve in test connection open wide 50 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☑ Yes ☐ No
7. Flushed by installer of underground piping ☑ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? ☐ Yes ☐ No N/A

P. Blank Testing Gaskets
1. Number used: 0
2. Locations: —
3. Number removed: 0

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☑ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☑ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☑ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☑ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☑ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: _____
2. Tests witnessed by:
   For property owner (Signed): _____ Date: 4/8/11
   Title: ASST. SUPERINTENDENT
   For sprinkler contractor (Signed): Jeremy _____ Date: 4/8/11
   Title: Foreman

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

LEVEL 1 AIRLINE OPS SPR ZONE 1-4

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

Property Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: 4-12-11

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): AIRLINE OPS

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature
TYCO	RF11	2010	½	86	155°
TYCO	TY-FRB	2010	½	117	155°
TYCO	TY-FRB	2010	½	2	200°

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate Through Insp. Test
VANE	POTTER	VSR	34 Sec

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: N/A
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: N/A
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 85 psi.
   b. Residual pressure with valve in test connection open wide 50 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☒ Yes ☐ No
7. Flushed by installer of underground piping ☒ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: 0
2. Locations: —
3. Number removed: 0

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC.
2. Tests witnessed by:
   For property owner (Signed): [signature] TCCo
   Title: ASST. SUPERINTENDENT Date: 4/12/11
   For sprinkler contractor (Signed): [signature]
   Title: Foreman Date: 4/12/11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

LEVEL 2 HOLDROOM SPRZONE 2-1

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

Property Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: 4-8-11

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): HOLDROOM

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature
TYCO	RF11	2010	1/2	288	155°

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate Through Insp. Test
VANE	POTTER	VSR	30 Sec

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: N/A
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: N/A
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 80 psi.
   b. Residual pressure with valve in test connection open wide 45 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☒ Yes ☐ No
7. Flushed by installer of underground piping ☒ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: 0
2. Locations: —
3. Number removed: 0

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC.
2. Tests witnessed by:
   For property owner (Signed): [signature] TCCO
   Title: ASST. SUPERINTENDENT Date: 4/8/11
   For sprinkler contractor (Signed): [signature]
   Title: Foreman Date: 4/8/11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

LEVEL 2 CONCESSIONS SPR ZONE 2-2

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

roperty Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: 4-8-11

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): CONCESSIONS

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature
TYCO	RF11	2010	½	145	155°
TYCO	TY-FRB	2010	½	85	155°
TYCO	TY-FRB	2010	½	1	200°

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate Through Insp. Test
VANE	POTTER	VSR	35 Sec

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: N/A
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: N/A
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 80 psi.
   b. Residual pressure with valve in test connection open wide 45 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☒ Yes ☐ No
7. Flushed by installer of underground piping ☒ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: 0
2. Locations: —
3. Number removed: 0

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC.
2. Tests witnessed by:
   For property owner (Signed): [signature] TCAS
   Title: ASST. SUPERINTENDENT Date: 4/8/11
   For sprinkler contractor (Signed): [signature]
   Title: Foreman Date: 4/8/11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

LEVEL 3 GARAGE CONNECTOR SPR ZONE 3-1

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

Property Name: Portland Jetport Address: 100 / Westbrook St, Portland Me Date: 6-27-11

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: Augusta Maine
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): 3rd Floor Garage Connector

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature
Tyco	TY-FRB	2010	1/2	23	155°

F. Pipe and Fittings
1. Type of Pipe: Black Iron Sch 40 & 10
2. Type of Fittings: Victaulic / cast Iron

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate Through Insp. Test
Vane	Potter	VSR	30 sec

N/A **H. Dry-Pipe Valve**
Make, Model and Serial Number:
Quick Opening Device (Q.O.D.)
Make, Model and Serial Number:

J. Dry-Pipe System Operating Test Without Q.O.D.
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D.
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: _____
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: _____
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested ☐ Yes ☐ No N/A
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 75 psi.
   b. Residual pressure with valve in test connection open wide 60 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☒ Yes ☐ No
7. Flushed by installer of underground piping ☒ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? ☐ Yes ☐ No N/A

P. Blank Testing Gaskets
1. Number used: 0
2. Locations: _____
3. Number removed: 0

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☐ Yes ☐ No N/A
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☐ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☐ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: Dear & Allyn
2. Tests witnessed by:
   For property owner (Signed): A. Mitchell
   Title: SUPER Date: _____
   For sprinkler contractor (Signed): Jeremy Dear
   Title: Foreman Date: 6-27-11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

LEVEL 3 HIGH CEILING GLU-LAM EAST SPR ZONE 3-2

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

roperty Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: 5-9-11

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): GLU-LAM EAST

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature
TYCO	SW-20	2010	5/8"	72	200°
TYCO	TY-FRB	2010	1/2"	44	200°

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate Through Insp. Test
VANE	POTTER	VSR	35 Sec

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: N/A
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: N/A
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 75 psi.
   b. Residual pressure with valve in test connection open wide 65 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☒ Yes ☐ No
7. Flushed by installer of underground piping ☒ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: 0
2. Locations: —
3. Number removed: 0

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC.
2. Tests witnessed by:
   For property owner (Signed): [signature] TCCO
   Title: ASST. SUPERINTENDENT Date: 5/9/11
   For sprinkler contractor (Signed): Jeremy Lowe
   Title: Foreman Date: 5/9/11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

LEVEL 3 HIGH CEILING GLW-LAM WEST SPR ZONE 3-1

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

Property Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: 5-9-11

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): GLW-LAM WEST

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature
TYCO	SW-20	2010	5/8"	84	200°
TYCO	TY-FRB	2010	1/2"	52	200°

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate Through Insp. Test
VANE	POTTER	VSR	35 Sec

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A
Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: N/A
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: N/A
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 75 psi.
   b. Residual pressure with valve in test connection open wide 65 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☑ Yes ☐ No
7. Flushed by installer of underground piping ☑ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: 0
2. Locations: —
3. Number removed: 0

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC.
2. Tests witnessed by:
   For property owner (Signed): _____
   Title: ASST. SUPERINTENDENT Date: 5/9/11
   For sprinkler contractor (Signed): Jeremy Lewis
   Title: Foreman Date: 5/9/11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

LEVEL 3 SECURE CIRCULATION SPR ZONE 3-4

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

Property Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: _____

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): SECURE CIRC.

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature
TYCO	RF11	2010	½	171	155°
TYCO	TY-FRB	2010	½	4	155°
TYCO	TY-FRB	2010	½	10	200°

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate Through Insp. Test
VANE	POTTER	VSR	35 Sec

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D.
1. Time to trip through test connection*: N/A
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D.
1. Time to trip through test connection*: N/A
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: N/A
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: N/A
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 80 psi.
   b. Residual pressure with valve in test connection open wide 50 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☐ Yes ☐ No
7. Flushed by installer of underground piping ☐ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: _____
2. Locations: _____
3. Number removed: _____

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC.
2. Tests witnessed by:
   For property owner (Signed): _____
   Title: ASST. SUPERINTENDENT Date: 7/28/11
   For sprinkler contractor (Signed): _____
   Title: Foreman Date: 7/28/11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

LEVEL 3 - MECH. ROOM SPR ZONE 3-7

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

Property Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: 6-27-11

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): MECH. ROOM

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature
TYCO	RF11	2010	½	19	155°
TYCO	TY-FRB	2010	½	2	155°
TYCO	TY-FRB	2010	½	163	200°
TYCO	TY-FRB	2010	½	3	286°

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate Through Insp. Test
VANE	POTTER	VSR	35 Sec

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: N/A
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: N/A
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 75 psi.
   b. Residual pressure with valve in test connection open wide 65 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☒ Yes ☐ No
7. Flushed by installer of underground piping ☐ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: 0
2. Locations: -
3. Number removed: 0

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC.
2. Tests witnessed by:
   For property owner (Signed): [signature]
   Title: ARFF SUPER Date: 6/27/11
   For sprinkler contractor (Signed): [signature]
   Title: Foreman Date: 6-27-11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

STAIR B FEED MAIN

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

Property Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: 5-3-11

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): STAIR B

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator N/A

Type	Make	Model	Max. Time to Operate Through Insp. Test

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves
1. Make & Model: N/A
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve
1. Location and Floor: N/A
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection _____ psi.
   b. Residual pressure with valve in test connection open wide _____ psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☐ Yes ☐ No
7. Flushed by installer of underground piping ☒ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: 0
2. Locations: —
3. Number removed: 0

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC.
2. Tests witnessed by:
   For property owner (Signed): [signature] TCO
   Title: ASST. SUPERINTENDENT Date: 5/3/11
   For sprinkler contractor (Signed): [signature]
   Title: Foreman Date: 5/3/11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

LEVEL 1 - OUTBOUND BAGGAGE - SPR ZONE 1-8

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

Property Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST. PORTLAND, ME Date: _____

B. Plans
1. Accepted by Approving Authorities (Names): MEFMO
2. Address: AUGUSTA MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): OUTBOUND BAGGAGE

E. Sprinklers

Make	Model	Year Made	Orifice	Quantity	Temperature
TYCO	TY-FRB	2010	1/2"	139	155°
TYCO	TY-FRB	2010	1/2"	5	200°
TYCO	TY-FRB	2010	1/2"	4	286°

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate Through Insp. Test
VANE	POTTER	VSR	36 Sec

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

I. Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves N/A
1. Make & Model: _____
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve N/A
1. Location and Floor: _____
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 85 psi.
   b. Residual pressure with valve in test connection open wide 50 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☐ Yes ☐ No
7. Flushed by installer of underground piping ☐ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: _____
2. Locations: _____
3. Number removed: _____

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC.
2. Tests witnessed by:
   For property owner (Signed): _____
   Title: ASST. SUPER. TECO Date: 9/1/11
   For sprinkler contractor (Signed): _____
   Title: Foreman Date: _____

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

STAIR B STANDPIPE

Contractors Material and Test Certificate for Aboveground Piping

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

A. 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. All "No" answers shall be explained in the Comments portion of this form.

roperty Name: PORTLAND JETPORT Address: 1001 WESTBROOK ST PORTLAND, ME Date: _____

B. Plans
1. Accepted by Approving Authorities (Names): MSFMO
2. Address: AUGUSTA, MAINE
3. Installation conforms to accepted plans ☒ Yes ☐ No
4. Equipment used is approved ☒ Yes ☐ No

C. Instructions
1. 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
2. Have copies of the following been left on the premises:
   a. System components instructions ☒ Yes ☐ No
   b. Care and maintenance instructions ☒ Yes ☐ No
   c. NFPA 25 ☐ Yes ☐ No

D. Location of system - Supplies building(s): STAIR B STANDPIPE

E. Sprinklers N/A

Make	Model	Year Made	Orifice	Quantity	Temperature

F. Pipe and Fittings
1. Type of Pipe: BLACK STEEL
2. Type of Fittings: BLACK CAST IRON

G. Alarm Valve or Flow Indicator

Type	Make	Model	Max. Time to Operate Through Insp. Test

H. Dry-Pipe Valve
Make, Model and Serial Number: N/A

Quick Opening Device (Q.O.D.)
Make, Model and Serial Number: N/A

J. Dry-Pipe System Operating Test Without Q.O.D.
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

K. Dry-Pipe System Operating Test With Q.O.D. N/A
1. Time to trip through test connection*:
2. Water pressure _____ psi. Air pressure _____ psi.
3. Trip point air pressure _____ psi.
4. Time water reached test outlet*: _____
5. Alarm operated properly ☐ Yes ☐ No

L. Deluge and Preaction Valves N/A
1. Make & Model: _____
2. Operation: ☐ Pneumatic ☐ Electric ☐ Hydraulic
3. Piping and detecting media supervised ☐ Yes ☐ No
4. Does valve operate from manual trip and/or remote control stations ☐ Yes ☐ No
5. Is there an accessible facility in each circuit for testing ☐ Yes ☐ No
6. Does each circuit operate supervision loss alarm ☐ Yes ☐ No
7. Does each circuit operate valve release ☐ Yes ☐ No
8. Maximum time to operate release: _____

M. Pressure Reducing Valve N/A
1. Location and Floor: _____
2. Make and Model: _____
3. Setting: _____ Static Pressure: Inlet _____ psi, Outlet _____ psi
4. Residual Pressure (Flowing): Inlet _____ psi, Outlet _____ psi
5. Flow Rate: _____ gpm

N. Test Description
Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi for two hours or 50 psi above static pressure in excess of 150 psi for two hours. Differential dry-pipe valve clappers shall be left open during test to prevent damage. All aboveground piping leakage shall be stopped.
Pneumatic: Establish 40 psi air pressure and measure drop. Test pressure tanks at normal water level and air pressure and measure air pressure drop. In both cases, the pressure drop shall not exceed 1½ psi in 24 hrs.

O. Tests
1. All piping hydrostatically tested at 200 psi for 2 hours
2. Dry piping pneumatically tested N/A ☐ Yes ☐ No
3. Equipment operates properly ☒ Yes ☐ No
4. 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 or stopping leaks? ☒ Yes ☐ No
5. Drain Test:
   a. Static pressure reading of gage located near water supply connection 75 psi.
   b. Residual pressure with valve in test connection open wide 65 psi.
6. Underground mains and lead in connections to risers flushed before connection made to sprinkler piping and verified by copy of form No. 13-U ☐ Yes ☐ No
7. Flushed by installer of underground piping ☐ Yes ☐ No
8. If powder driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? N/A ☐ Yes ☐ No

P. Blank Testing Gaskets
1. Number used: _____
2. Locations: _____
3. Number removed: _____

Q. Welded Piping - If welded piping was used in the system, complete the following:
1. As the sprinkler contractor, were welding procedures in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
2. Was welding performed by welders qualified in compliance with the requirements of at least AWS B2.1, ASME Section IX or other required standards ☒ Yes ☐ No
3. Do you certify that welding was carried out in compliance with a documented quality control procedure to insure that all discs are retrieved, openings in pipe are smooth, slag and other welding residue are removed, the internal diameters of piping are not penetrated, completed welds are free from cracks, incomplete fusion, surface porosity greater than 1/16 inch in diameter, undercut deeper than the lesser of 25% of the wall thickness or 1/32 inch, and the completed circumferential butt weld reinforcement does not exceed 3/32 inch? ☒ Yes ☐ No

R. Cutouts (Disks)
Do you certify that you have a control feature to ensure that all cutouts (disks) are retrieved? ☒ Yes ☐ No

S. Hydraulic Data Nameplate Provided ☒ Yes ☐ No

T. Date left in service (with all control valves open):

U. Signatures
1. Name of sprinkler contractor: DEAN & ALLYN, INC
2. Tests witnessed by:
   For property owner (Signed): TCG
   Title: ASST. SUPER. Date: 9/1/11
   For sprinkler contractor (Signed): Jeremy S
   Title: Foreman Date: 9/1/11

V. Comments *(This section is for additional explanation and notes. All "No" answers must be explained here.)*

*Measured from the time the inspector's test connection is opened

☐ Check here if comments continue on the reverse side of this form

5. Smoke Density

Waiver

One Beacon Street
Third Floor
Boston MA 02108
USA

Tel 617.619.5700
Fax 617.619.5701

Gensler

October 10, 2009

Ms. Tammy Munson
City of Portland Planning and Development Department
Inspections Division
389 Congress Street
Portland, ME 04101-3509

Re: Portland International Jetport (PWM) Terminal Expansion
Request for Approval of Later Code Edition and Alternative Design

Dear Ms. Munson:

We appreciate the opportunity to meet with you and members of the Inspections Division staff on December 23, 2008 and most recently on October 7, 2009 to discuss two specific code-related issues pertaining to the major commercial terminal expansion at the Portland International Jetport. The Jetport will apply for a building permit next month (November 2009) with construction scheduled to start in April 2010.

Background / Previous Submissions:
The terminal expansion project was submitted to the City of Portland as part of a Development Review application dated September 22, 2008. We received three comments from the Portland Fire Department (attachment 1) and responded to these comments in a memo dated February 16, 2009. The IBC/NFPA Code Analysis and Fire Department checklist for was made part of the Development Review Application. We are writing to formally request approval for the following two items:

1. Use IBC 2009 edition Smoke Control exception:
The project is currently designed to meet the International Building Code (IBC) 2003 edition as adopted by the City of Portland. The project has two atriums that connect only two stories. IBC 2003 edition requires a smoke control system:

"404.4 Smoke control. A smoke control system shall be installed in accordance with Section 909."

Subsequent IBC 2006 and 2009 editions have identical exceptions for atriums that connect only two stories (2009 edition excerpt below):

"404.5 Smoke control. A smoke control system shall be installed in accordance with Section 909. Exception: Smoke control is not required for atriums that connect only two stories."

Gensler

We are requesting approval to reference the IBC 2009 edition for the smoke control exception only. Considering that codes are continually updated to reflect improved testing, building sciences research and real-world building performance, we believe that this does not compromise life safety. Additionally, when the terminal addition is complete in 2012, the IBC 2009 edition may be the applicable code, if adopted by the City of Portland as currently planned. Floor plans and views of the two atriums are included as attachments 4 through 7.

2. Design Alternative to Firewall between Separate Buildings:

The terminal addition is a structurally independent building that connects to the existing parking garage and existing terminal at selected locations. For the purposes of the IBC, we have prepared the code analysis with the base assumption that the terminal addition is a separate building, which therefore requires a three hour rated firewall or fire shutters at connection points to existing structures. The connection to the parking garage is a three hour fire wall which complies with IBC 2003 ed. section 705. However, a continuous fire wall that extends from grade to the roof at the lowest level of the renovated baggage make-up room has practical difficulties, due to a new baggage carousel that spans the line between the new and existing terminal. A fire shutter in this location would bisect the carousel and might also be blocked by parked baggage carts (attachment 4).

We are seeking approval allowed by IBC 2003 ed. section 104.11:

> *"104.11 Alternative materials, design, and methods of construction and equipment: ...An alternative material, design or method of construction shall be approved where the building official finds that the proposed design is satisfactory and complies with the intent and provisions of the code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety."*

Alternative design description:

We are proposing providing a 3 hour fire separation assembly that encases the baggage make-up room on the lowest level in the existing terminal, with 3 hour rated walls and 3 hour rated spray-on fireproofing on the existing floor deck above the baggage make-up room (attachment 4). Although it is not required by code, we are also proposing to upgrade existing sprinklers in the departures lounges on Level 3, which is directly above the renovated baggage make-up room (attachment 5). Aside from the baggage make-up room on the lowest level, all other connections to the existing building are protected with a fire wall or fire shutter that complies with IBC 2003 ed. Section 705.

We believe the alternative design provides an equivalent effectiveness and is not an unusual life safety risk for the following reasons:

- The 3 hour fire rating is maintained continuously on all interior wall and ceiling surfaces along the entire baggage room perimeter.
- The existing and new structures are noncombustible steel and concrete construction types.

Gensler

- Code compliant fire protection (sprinklers) would likely control a fire in the lower level baggage room or upper level departures lounges before structural failure.
- The terminal is only two stories at this location, with a short travel distance to a public way.
- Unlike most buildings, the airport terminal is manned 24 hours a day, 365 days a year with continuous monitoring of life safety systems.
- The airport fire station is manned 24 hours a day, 365 days a year and is immediately adjacent to the terminal.

We appreciate your timely attention to these requests. Please contact me at (617) 619-5767 should you require any additional supporting documentation; we would be pleased to schedule a follow-up meeting if necessary.

Sincerely,

Jim Stanislaski, AIA
Project Architect

cc: Mr. Paul Bradbury, Portland International Jetport
Mr. Keith Gautreau, Portland Fire Department

attachments:

1. Portland Fire Department comments
2. Site plan
3. View of terminal addition from west
4. Level 2 plan (ticketing hall and baggage make-up room)
5. Level 3 plan (departures lounges and concessions)
6. Level 4 plan (passenger security screening)
7. Interior view of atriums 1 and 2

Signatures below indicate City of Portland approval of items described above without exception:

SIGNED,

Date 11/13/2009

Chief Fred LaMontagne
Fire Chief, Portland Fire Department

SIGNED,

Capt. Keith Gautreau Date 11/13/2009

Captain Keith Gautreau
Fire Prevention Bureau, Portland Fire Department

MEMORANDUM

To: FILE

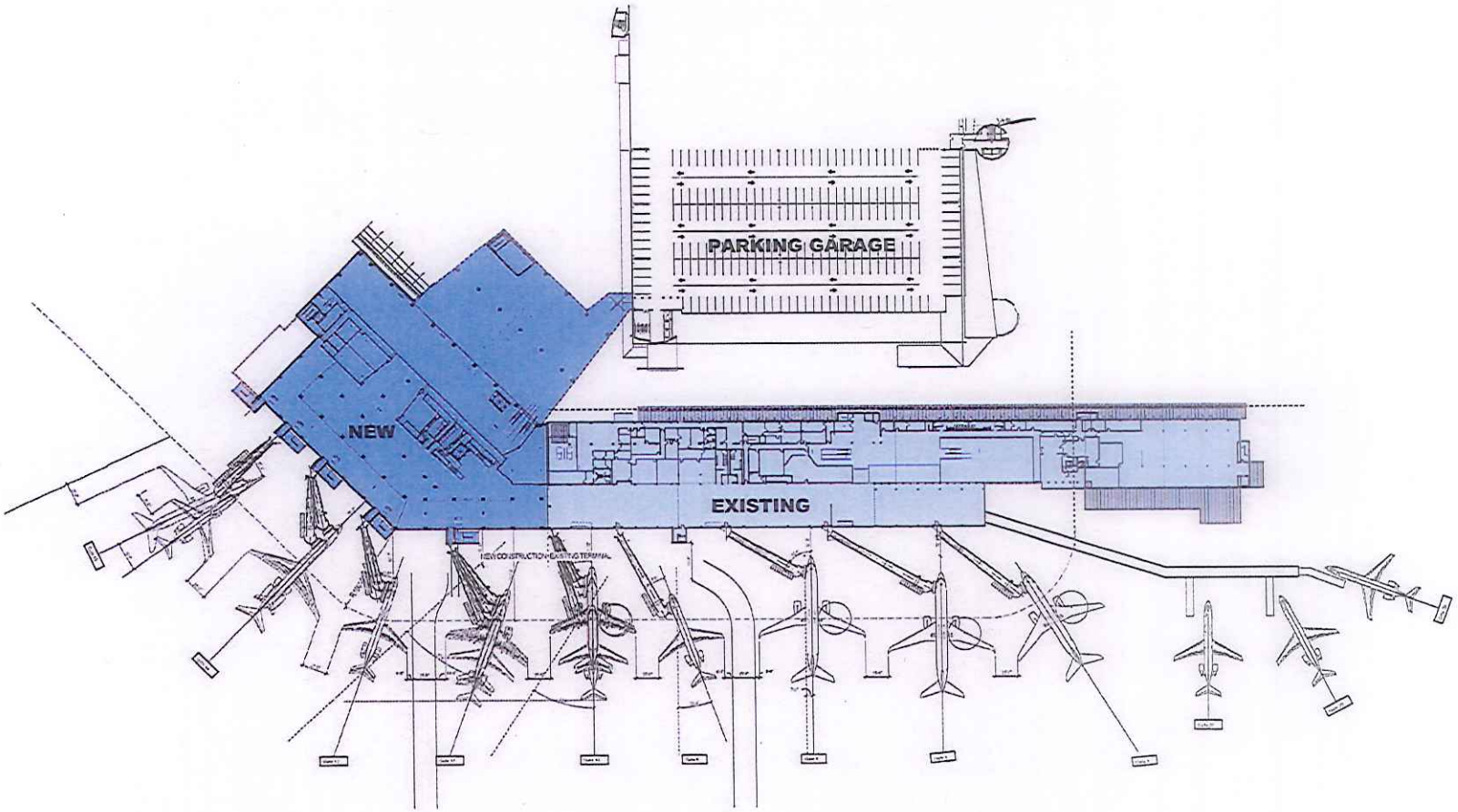
From: Greg Cass **Dept:** Fire

Subject: Application ID: 2008-0137

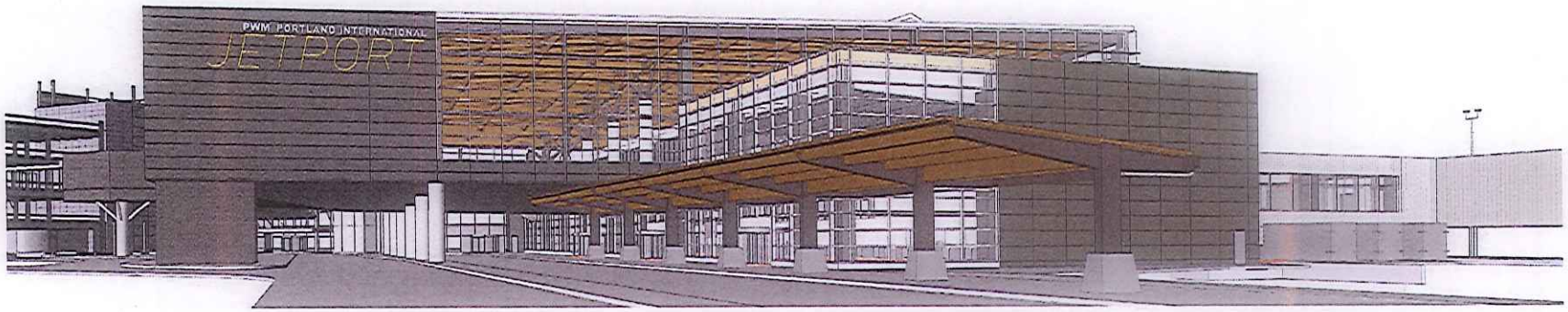
Date:

1. Please provide details for emergency access during construction.
2. Please provide a NFPA 415 code summary
3. Please complete the Fire Dept. checklist, including fire flows and details of all fire suppression and detection systems.

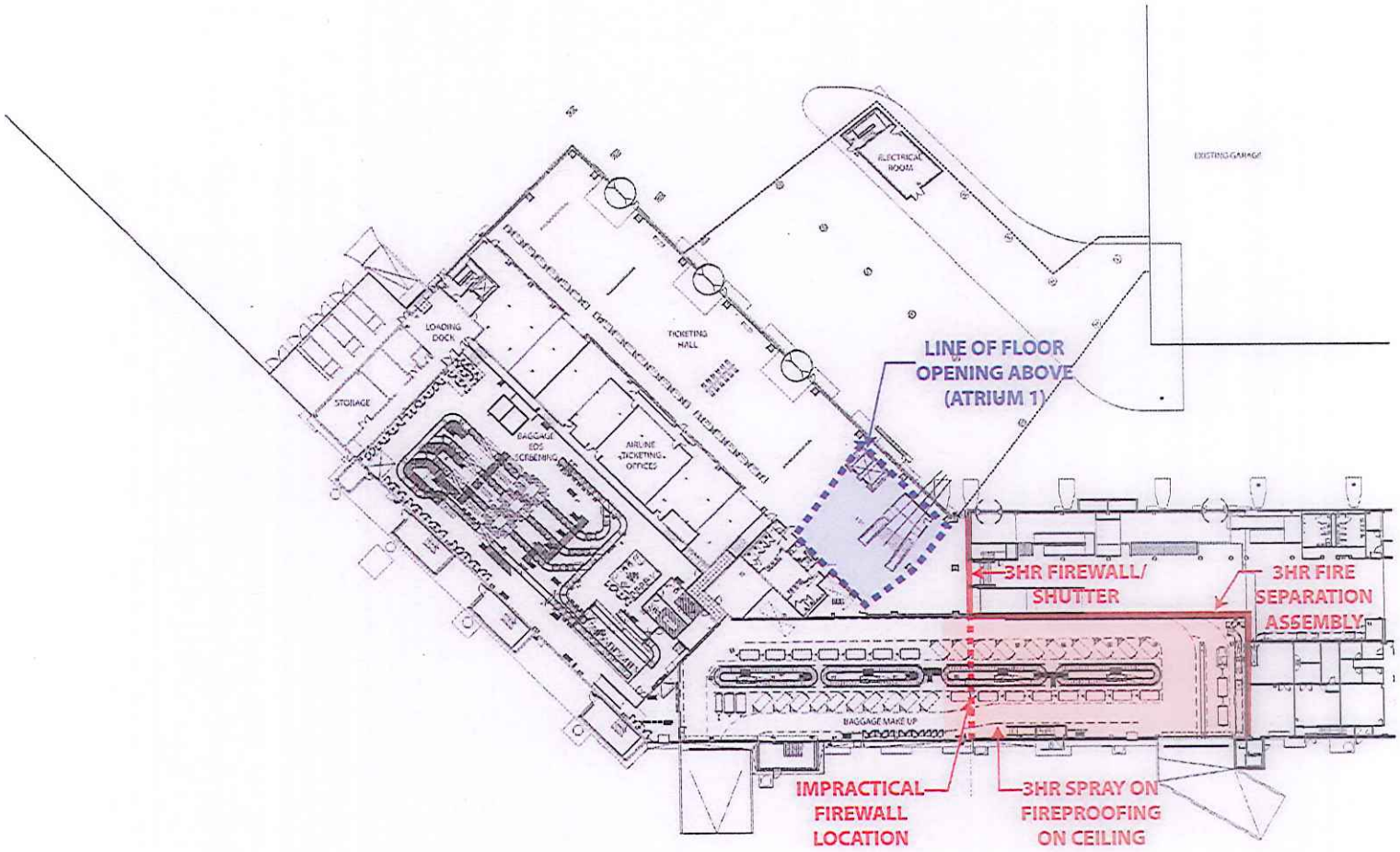
Attachment 1



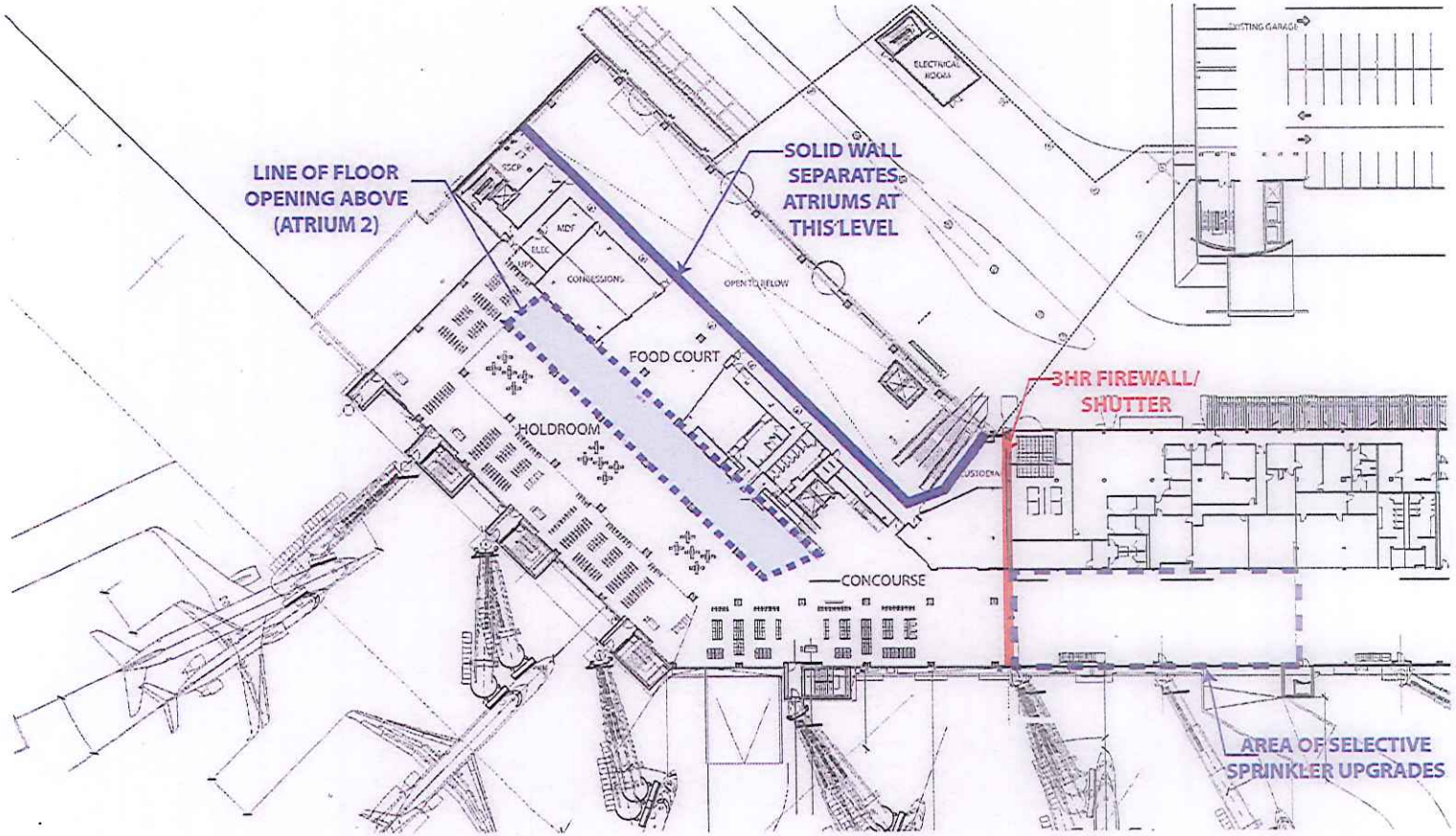
Site Plan



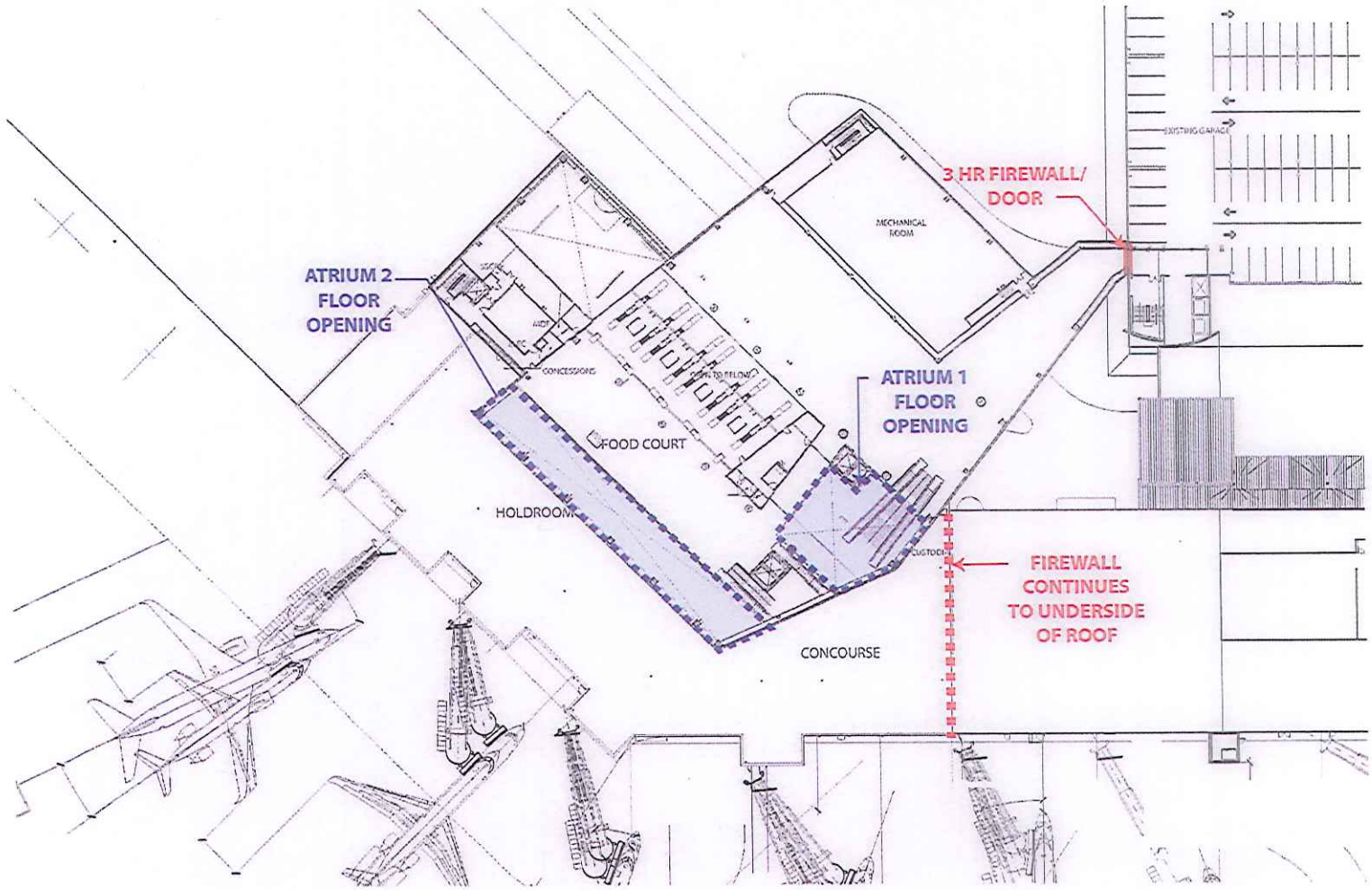
View of Terminal Addition from West



Level 2 Plan (Ticketing Hall and Baggage Make-up Room)

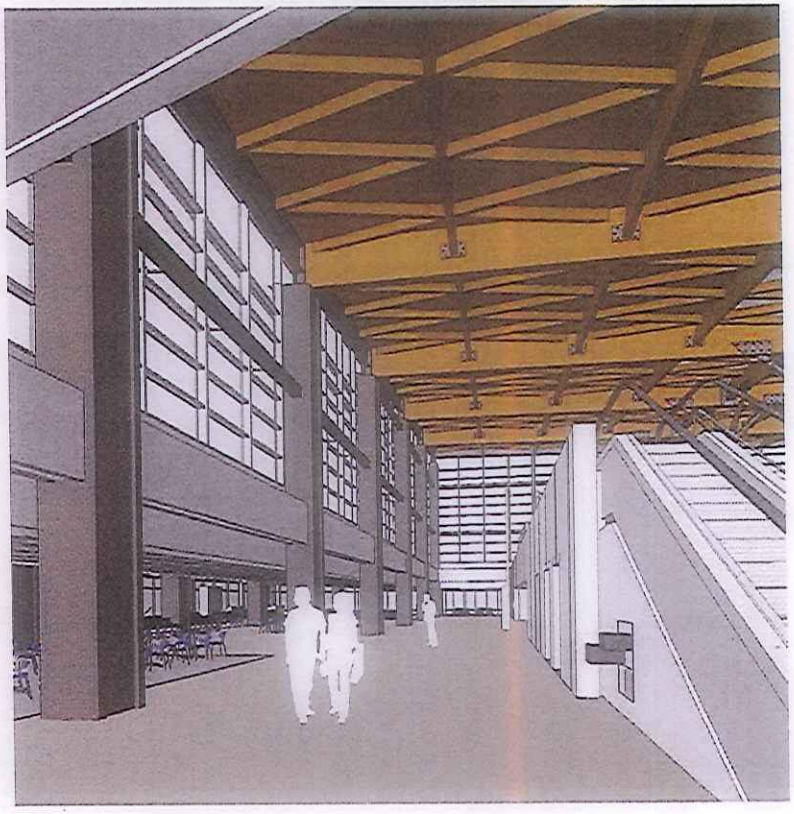


Level 3 Plan (Departures Lounges and Concessions)



Level 4 Plan (Passenger Security Screening)

Atrium 1 viewed from Level 2



Atrium 2 viewed from Level 3

6. Generator Test

Milton CAT

Power Systems Division

EPG Start Up Checklist

Customer Data/Contractor Data			
Name	Portland International Jetport		Date First Visit
Street			07/20/2011
City	Portland, Me		Hours
Electrical Contrator	ES Boulos		5

Type of Installation			
Standby	Prime	Peakshave	CO-Gen
X			

Engine Data		Generator Data	
EngineModel	C27	Serial Number	
Serial Number	DWB02246	Arrangement	
Arrangement		Rating	750 KW
Engine HP rating	1141	Voltage	480
Fuel Type	Diesel	Amperage	1127 Amps

ATS 1		ATS 2	
Make	5 Russelectrics	Make	
Model		Model	
Ser#		Ser#	
Voltage		Voltage	
Amp rating		Amp rating	

Environment			
Housed Outside		Inside Building	X
Housing Manufacturer		Location in Building	3rd Floor
Housing Serial Number			

Pre Start Checks			
Mounting		Adjust isolators	*N/A*
Secured to level surface	*Yes*	Proper Clearances	*N/A*
Lube System		**Fuel System Diesel**	
Oil level	*Ok*	Flexible lines	*Ok*
Oil leaks	*N'A*	Fuel solenoid wired	*Ok*
Cooling System		Day Tank	
Coolant level(JW)	*Ok*	Wired to emergency source	*Yes*
Coolant level(SCAC)	*Ok*	Proper elevation	*Ok*
Proper Ventilation	*Ok*	Floats operational	*Yes*
Remote Radiator(if equip)		Alarms wired and operate	*Yes*
Isolation Valves at engine	*Yes*	Return line one size larger than supply	*Ok*
Fans and pumps wired to emergency source and operational	*Yes*	Day tank solenoid wired to open only when pump runs	*Yes*
Elevation above engine within acceptable limits	*Yes*		
Check for leaks	*Ok*	**Fuel System Gas**	
Proper pipe sizing	*Ok*	Manual Shutoff	*N/A*
		Solenoid installed/wired	*N/A*
Exhaust System		Flex Connector (Approved)	*N/A*
Flexes	*Ok*	Measure/Record Gas Pressure after solenoid valve	*N/A*
Condensate trap	*Ok*		
Muffler	*Ok*	Proper initial fuel mixture adjustments	*N/A*
Correct Sizing	*Ok*		
Thimble through walls	*Ok*		

Pre Start Checks			
Batteries		**Generator**	
Proper size	*Yes*	Voltage	*480*
Voltage	*24VDC*	Wiring complete	*Yes*
Proper battery rack	*Ok*	GROUNDED Y/N	*Yes*
Charger wired	*Yes*	Where is it grounded	*Building*
Charger proper voltage	*Ok*	**ATS**	
Float voltage setting	*26.89 VDC*	Correct Voltage	*Russelectric Gear*
Equalize setting	*28.11 VDC*	AC connections	*See suppliers startup*
Jacket Water Heater		Open/Closed Transition	"
Voltage	*240*	**Utility**	"
		Pick up	"
KW	*6KW*	Drop out	"
Wired to Normal Source	*Yes*	**Emergency**	"
CIM/CCM		Pick up	"
Customer connection	*N/A*	Drop out	"
Proper wire size and type	*N/A*	**Time Delays**	"
Operational	*N/A*	Start	"
Remote Annuciators		Transfer	"
Customer connection	*N/A*	Neutral	"
Proper wire size and type	*N/A*	Retransfer	"
Operational	*N/A*	Cooldown	"
Remote Start Wiring		Exerciser Set Day/Time	"
Wired to ATSs	*Ok*		
Proper wire size and type			

Operational Checks (engine running)			
Record Actual		Loadbank	Yes
Oil pressure	68 PSI	Operation with Load	
Coolant Temp	189 deg	Frequency	60
Coolant Level	Full	AC Voltage	
Noise and Vibration/OK	Ok	A	480
Battery Charge Rate	26.6 VDC	B	481
AC Voltage	480 VAC	C	480
Frequency	60	N	277
Phase Rotation	CW		
Shutdowns (verify)	**Record settings**	AC Amperage	
Oil pressure	15 PSI	A	901
Coolant Temp	225 deg	B	902
Overspeed Safety	2120	C	901
Overcrank	5 tries	N	0
Alarms (verify)			
Oil pressure	29 PSI	**ATS (record actual)**	
Coolant Temp	216 deg	Time Delay Start	2 sec
Coolant Level	N/A	Time Delay Transfer	0 sec
Not in Auto	Yes	Time Delay Neutral	0 sec
Low Battery Voltage	24 VDC	Time Delay Retransfer	5 min
High Battery Voltage	30 VDC	Cooldown	5 min
Charger Failure	Yes		
Low fuel	Yes		
High Fuel	Yes		
Critical High Fuel	No		
Rupture Basin	Yes		

Final Installation Recommendations	
A	Need to make sure daytank pump operates properly. Was not functional at loadtest and had not been recitfied at last visit.
B	Need to perform operator training at some point.
C	
D	
E	

Final Review With Customer or Contractor	
Checking Coolant	Need training
Checking Oil	
Walk around inspection	
Safe starting and stopping	
Maintenance Intervals	
Weekly	
Monthly	
Annual	
Three year	

Signatures	
Chad Turner	ES Boulos
Performed By	Customer/Contractor
	07/26/2011
Engineer	Date

Model	C27					Southworth Milton						Test Number						
Serial Number	DWB02246					16 Pleasant Hill Rd						Method Number Resistive						
Rating	750 KW 937 KVA					Scarborough, Me 04074						Date	07/25/2011					
												Tested By	Chad Turner					
						LOAD TEST SHEET						Test Engineer	Steve Melanson					
												Inspector						
						Customer Number		Portland Jetport										
						Job Title		SC01009										

Time	Terminal Voltage			Line Current			Kilowatts		Frequency		Oil Pressure		Coolant T.		Ambient T.		Oil
of Day	L1-L2	L2-L3	L1-L3	L1	L2	L3	Fuel Level	KW	RPM	HZ	Hour Meter	PSI	DC Volts	Volts	Exh.	Amb.	Temp
11:30	480	480	480	224	225	224	Full	187	1799	60	1.8	70	26.7	178	482	78	187
11:45	480	481	480	224	226	225	Full	187	1798	60	2	67	26.6	178	485	78	187
12:00	480	480	480	450	449	449	<Full	375	1799	60	2.3	64	26.6	180	585	78	189
12:15	480	480	480	449	448	450	<Full	375	1800	60	2.5	64	26.6	180	598	78	189
12:30	480	481	480	675	674	674	>7/8	562	1799	60	2.8	61	26.6	185	705	80	195
12:45	480	480	481	674	675	675	>7/8	562	1799	60	3	61	26.6	185	709	80	195
13:00	479	480	480	901	902	902	.7/8	750	1799	60	3.3	59	26.6	189	759	81	198
13:15	480	480	480	902	901	902	<7/8	750	1800	60	3.5	59	26.6	189	763	81	198
13:30	480	480	481	900	902	901	>3/4	750	1799	60	3.8	59	26.6	187	765	82	198
13:45	480	480	480	901	901	902	>3/4	750	1799	60	4	59	26.6	189	761	82	198
14:00	480	481	480	902	901	901	.3/4	750	1799	60	4.3	59	26.6	187	765	82	198
14:15	480	480	480	901	902	902	<3/4	750	1800	60	4.5	59	26.6	189	764	82	198
14:30	481	480	480	900	901	902	>5/8	750	1799	60	4.8	59	26.6	189	771	82	198
14:45	480	480	480	902	902	901	.5/8	750	1800	60	5	59	26.6	189	762	82	198
15:00	480	480	481	901	901	902	<5/8	750	1799	60	5.3	59	26.6	187	764	82	198
15:15	480	480	480	901	901	901	>1/2	750	1800	60	5.5	59	26.6	187	762	82	198
15:30	480	480	480	900	901	902	.1/2	750	1799	60	5.8	59	26.6	189	761	82	198
15:45	480	480	480	0	0	0	.1/2	0	1800	60	6	66	26.6	178	372	82	198

Russelectric Inc.
Startup Checklist for
Model 2000 Automatic Transfer Switches
for Portland International Jetport, Shop Order Number 35562

Serial # 35562-1 Model # RMTDCT-8004CEF
Voltage 277/480 Amps 800 Freq. 60 HZ
Customer I.D. ATS-1 Elevators

Procedure

1. Record the following serial numbers/revisions off of the components:

Microprocessor # 23113 Microprocessor Firmware Revision # 2.72

Normal Attenuator Board # 14841 Emergency Attenuator Board # 14840

Microprocessor Power Supply and Motor Control Board # 9279 Rev. H

2. Verify all wiring:

	INITIAL/DATE
Plug-in Connectors	DJY 07-22-2011
Control Circuit Wiring Terminals	DJY 07-22-2011

3. Verify the operation of the following LED indicators (which are located on the front of the controller:

	INITIAL/DATE
CPU Running	DJY 07-22-2011
ATS in Normal Position	DJY 07-22-2011
ATS in Emergency Position	DJY 07-22-2011

4. Verify the operation of the following status LED's (which are located on the right side of the controller:

	INITIAL/DATE
(TSN) Normal Position Indicator	DJY 07-22-2011
(NPA) Normal Power Available	DJY 07-22-2011
(TTN) Transfer to Normal (TD2, TDBT, TNTD timing)	DJY 07-22-2011
(ESR) Engine Start Relay Status (TD1 and AUT timing)	DJY 07-22-2011
(TSE) Emergency Position Indicator	DJY 07-22-2011
(EPA) Emergency Power Available	DJY 07-22-2011
(TTE) Transfer to Emergency (TD3, TDBT, TETD timing)	DJY 07-22-2011
(BTR/LSR) Block Transfer and Load Shed Status	N/A

5. Parameter Setup:

Timer Setup:

Record the following preset values of the eight timers associated with the control system:

AUT 300 Sec TD1 3.0 Sec TD2 300 Sec TD3 0 Sec FTT 0.3 Sec

TDBT 12 Sec TDMI 1 Sec TETD 3 Sec TNTD 3 Sec

Russelectric Inc.
Startup Checklist for
Model 2000 Automatic Transfer Switches
for Portland International Jetport, Shop Order Number 35562

6. Verify the following functions:	INITIAL/DATE
Engine start signal	DJY 07-22-2011
Transfer to emergency	DJY 07-22-2011
Transfer to normal	DJY 07-22-2011
Load shed	N/A
Block transfer	N/A
Bypass block transfer	N/A
Load test	N/A
Bypass to Normal (RTB Only)	N/A
Bypass to Emergency (RTB Only)	N/A
Isolation (RTB Only)	N/A
Sneak Circuit Logic	DJY 07-22-2011

7. Verify the following annunciation:	INITIAL/DATE
Emergency Power Available	N/A
Normal Power Available	N/A
Normal Position	N/A
Emergency Position	N/A
Bypass Normal (RTB Only)	N/A
Bypass Emergency (RTB Only)	N/A
Switch Isolated (RTB Only)	N/A

8. **Normal Voltage**
A-N 281 B-N 282 C-N 283 VAC
A-B 490 B-C 493 C-A 492 VAC

Rotation "CW" A-B-C

9. **Emergency Voltage**
A-N 277 B-N 277 C-N 277 VAC
A-B 483 B-C 483 C-A 482 VAC

Rotation "CW"
Hz 59.99

10. Review accessory sheet and ensure all items have been tested and inspected.
Accessories - 1DX, 4B, 5A, 5C, 5D, 6B, 12C, 23C, 26, 27B, 30, & PRR, are IN.

11. Procedures for Testing the load shed/block transfer logic.

	INITIAL/DATE
A.) Block Transfer	
1.) Ensure all interconnect wiring to switchgear has been tested.	DJY 07-22-2011
2.) This ATS is priority number 1.	
3.) Place the ATS in the test position.	N/A
4.) Do not allow any Engines to close to the Emergency Bus.	N/A
5.) Allow (1) Generator to close to the emergency bus. Ensure ATS does not transfer to the emergency bus.	N/A
6.) Allow 2nd generator to close to the bus. The ATS should only transfer until the appropriate number of engines are on line to match its priority sequence.	N/A
B.) Block Transfer Bypass	
1.) Place the ATS in the test position.	N/A
2.) Allow (1) generator to close the emergency bus. Ensure ATS does not transfer.	N/A
3.) Operate "Bypass Block Transfer Switch" on accessory plate. ATS will transfer to the emergency source with only (1) generator on the bus.	N/A
C.) Load Shed	
1.) Place the ATS in the test position and allow all of the Generators to start and transfer to the Emergency Bus.	N/A
2.) Start shutting down the generators one at a time until the ATS transfers back to the utility source. The ATS should only transfer back to normal when there is less than the appropriate number of Generators on the Bus to match its priority.	N/A
3.) The load shed condition will override the manual Block transfer override as mentioned in (B3).	N/A

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Russelectric Inc.

Startup Checklist for

Model 2000 Automatic Transfer Switches

for Portland International Jetport, Shop Order Number 35562

Serial # 35562-2 Model # RMTDCT-1003CEF

Voltage 277/480 Amps 100 Freq. 60 HZ

Customer I.D. ATS-2 Life Safety

Procedure

1. Record the following serial numbers/revisions off of the components:

Microprocessor # 23155 Microprocessor Firmware Revision # 2.72

Normal Attenuator Board # 14841 Emergency Attenuator Board # 14840

Microprocessor Power Supply and Motor Control Board # 9276 Rev. H

2. Verify all wiring:

	INITIAL/DATE
Plug-in Connectors	DJY 07-22-2011
Control Circuit Wiring Terminals	DJY 07-22-2011

3. Verify the operation of the following LED indicators (which are located on the front of the controller:

	INITIAL/DATE
CPU Running	DJY 07-22-2011
ATS in Normal Position	DJY 07-22-2011
ATS in Emergency Position	DJY 07-22-2011

4. Verify the operation of the following status LED's (which are located on the right side of the controller:

	INITIAL/DATE
(TSN) Normal Position Indicator	DJY 07-22-2011
(NPA) Normal Power Available	DJY 07-22-2011
(TTN) Transfer to Normal (TD2, TDBT, TNTD timing)	DJY 07-22-2011
(ESR) Engine Start Relay Status (TD1 and AUT timing)	DJY 07-22-2011
(TSE) Emergency Position Indicator	DJY 07-22-2011
(EPA) Emergency Power Available	DJY 07-22-2011
(TTE) Transfer to Emergency (TD3, TDBT, TETD timing)	DJY 07-22-2011
(BTR/LSR) Block Transfer and Load Shed Status	N/A

5. Parameter Setup:

Timer Setup:

Record the following preset values of the eight timers associated with the control system:

AUT 300 Sec	TD1 2.0 Sec	TD2 298 Sec	TD3 0 Sec	FTT 0.3 Sec
TDBT 0 Sec	TDMI 0 Sec	TETD 1 Sec	TNTD 1 Sec	

Russelectric Inc.
Startup Checklist for
Model 2000 Automatic Transfer Switches
for Portland International Jetport, Shop Order Number 35562

6. **Verify the following functions:**

	INITIAL/DATE
Engine start signal	DJY 07-22-2011
Transfer to emergency	DJY 07-22-2011
Transfer to normal	DJY 07-22-2011
Load shed	N/A
Block transfer	N/A
Bypass block transfer	N/A
Load test	N/A
Bypass to Normal (RTB Only)	N/A
Bypass to Emergency (RTB Only)	N/A
Isolation (RTB Only)	N/A
Sneak Circuit Logic	DJY 07-22-2011

Verify the following annunciation:

	INITIAL/DATE
Emergency Power Available	N/A
Normal Power Available	N/A
Normal Position	N/A
Emergency Position	N/A
Bypass Normal (RTB Only)	N/A
Bypass Emergency (RTB Only)	N/A
Switch Isolated (RTB Only)	N/A

8. **Normal Voltage**
A-N 281 B-N 283 C-N 283 VAC
A-B 491 B-C 493 C-A 492 VAC

Rotation "CW" A-B-C

9. **Emergency Voltage**
A-N 277 B-N 277 C-N 277 VAC
A-B 483 B-C 484 C-A 482 VAC

Rotation "CW"
Hz 59.99

0. Review accessory sheet and ensure all items have been tested and inspected.
Accessories - 1DX, 4B, 5A, 5C, 5D, 6B, 12C, 26, 27B, 30, & PRR, are IN.

Russelectric Inc.
Startup Checklist for
Model 2000 Automatic Transfer Switches
for Portland International Jetport, Shop Order Number 35562

11. Procedures for Testing the load shed/block transfer logic.

		INITIAL/DATE
A.)	**Block Transfer**	
	1.) Ensure all interconnect wiring to switchgear has been tested.	DJY 07-22-2011
	2.) This ATS is priority number 1.	
	3.) Place the ATS in the test position.	N/A
	4.) Do not allow any Engines to close to the Emergency Bus.	N/A
	5.) Allow (1) Generator to close to the emergency bus.	N/A
	Ensure ATS does not transfer to the emergency bus.	
	6.) Allow 2nd generator to close to the bus. The ATS should only transfer until the appropriate number of engines are on line to match its priority sequence.	N/A
B.)	**Block Transfer Bypass**	
	1.) Place the ATS in the test position.	N/A
	2.) Allow (1) generator to close the emergency bus. Ensure ATS does not transfer.	N/A
	3.) Operate "Bypass Block Transfer Switch" on accessory plate. ATS will transfer to the emergency source with only (1) generator on the bus.	N/A
C.)	**Load Shed**	
	1.) Place the ATS in the test position and allow all of the Generators to start and transfer to the Emergency Bus.	N/A
	2.) Start shutting down the generators one at a time until the ATS transfers back to the utility source. The ATS should only transfer back to normal when there is less than the appropriate number of Generators on the Bus to match its priority.	N/A
	3.) The load shed condition will override the manual Block transfer override as mentioned in (B3).	N/A

Donald J. Youch Russelectric

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Russelectric Inc.

Startup Checklist for

Model 2000 Automatic Transfer Switches

for Portland International Jetport, Shop Order Number 35562

Serial # 35562-3 Model # RMTDCT-2253CEF

Voltage 277/480 Amps 225 Freq. 60 HZ

Customer I.D. ATS-3 Equipment

Procedure

1. Record the following serial numbers/revisions off of the components:

Microprocessor # 23116 Microprocessor Firmware Revision # 2.72

Normal Attenuator Board # 14836 Emergency Attenuator Board # 14837

Microprocessor Power Supply and Motor Control Board # 9263 Rev. H

2. Verify all wiring:

	INITIAL/DATE
Plug-in Connectors	DJY 07-22-2011
Control Circuit Wiring Terminals	DJY 07-22-2011

3. Verify the operation of the following LED indicators (which are located on the front of the controller:

	INITIAL/DATE
CPU Running	DJY 07-22-2011
ATS in Normal Position	DJY 07-22-2011
ATS in Emergency Position	DJY 07-22-2011

4. Verify the operation of the following status LED's (which are located on the right side of the controller:

	INITIAL/DATE
(TSN) Normal Position Indicator	DJY 07-22-2011
(NPA) Normal Power Available	DJY 07-22-2011
(TTN) Transfer to Normal (TD2, TDBT, TNTD timing)	DJY 07-22-2011
(ESR) Engine Start Relay Status (TD1 and AUT timing)	DJY 07-22-2011
(TSE) Emergency Position Indicator	DJY 07-22-2011
(EPA) Emergency Power Available	DJY 07-22-2011
(TTE) Transfer to Emergency (TD3, TDBT, TETD timing)	DJY 07-22-2011
(BTR/LSR) Block Transfer and Load Shed Status	N/A

5. Parameter Setup:

Timer Setup:

Record the following preset values of the eight timers associated with the control system:

AUT 300 Sec TD1 3.0 Sec TD2 303 Sec TD3 0 Sec FTT 0.3 Sec.

TDBT 0 Sec TDMI 0 Sec TETD 3 Sec TNTD 3 Sec

Russelectric Inc.
Startup Checklist for
Model 2000 Automatic Transfer Switches
for Portland International Jetport, Shop Order Number 35562

6. Verify the following functions:	INITIAL/DATE
Engine start signal	DJY 07-22-2011
Transfer to emergency	DJY 07-22-2011
Transfer to normal	DJY 07-22-2011
Load shed	N/A
Block transfer	N/A
Bypass block transfer	N/A
Load test	N/A
Bypass to Normal (RTB Only)	N/A
Bypass to Emergency (RTB Only)	N/A
Isolation (RTB Only)	N/A
Sneak Circuit Logic	DJY 07-22-2011

7. Verify the following annunciation:	INITIAL/DATE
Emergency Power Available	N/A
Normal Power Available	N/A
Normal Position	N/A
Emergency Position	N/A
Bypass Normal (RTB Only)	N/A
Bypass Emergency (RTB Only)	N/A
Switch Isolated (RTB Only)	N/A

8. **Normal Voltage**
A-N 282 B-N 282 C-N 283 VAC
A-B 491 B-C 493 C-A 492 VAC

Rotation "CW" A-B-C

9. **Emergency Voltage**
A-N 277 B-N 277 C-N 278 VAC
A-B 483 B-C 483 C-A 482 VAC

Rotation "CW"
Hz 59.99

10. Review accessory sheet and ensure all items have been tested and inspected.
Accessories - 1DX, 4B, 5A, 5C, 5D, 6B, 12C, 26, 27B, & PRR, are IN.

Russelectric Inc.
Startup Checklist for
Model 2000 Automatic Transfer Switches
for Portland International Jetport, Shop Order Number 35562

11. Procedures for Testing the load shed/block transfer logic.

	INITIAL/DATE
A.) Block Transfer	
1.) Ensure all interconnect wiring to switchgear has been tested.	DJY 07-22-2011
2.) This ATS is priority number 1.	
3.) Place the ATS in the test position.	N/A
4.) Do not allow any Engines to close to the Emergency Bus.	N/A
5.) Allow (1) Generator to close to the emergency bus. Ensure ATS does not transfer to the emergency bus.	N/A
6.) Allow 2nd generator to close to the bus. The ATS should only transfer until the appropriate number of engines are on line to match its priority sequence.	N/A
B.) Block Transfer Bypass	
1.) Place the ATS in the test position.	N/A
2.) Allow (1) generator to close the emergency bus. Ensure ATS does not transfer.	N/A
3.) Operate "Bypass Block Transfer Switch" on accessory plate. ATS will transfer to the emergency source with only (1) generator on the bus.	N/A
C.) Load Shed	
1.) Place the ATS in the test position and allow all of the Generators to start and transfer to the Emergency Bus.	N/A
2.) Start shutting down the generators one at a time until the ATS transfers back to the utility source. The ATS should only transfer back to normal when there is less than the appropriate number of Generators on the Bus to match its priority.	N/A
3.) The load shed condition will override the manual Block transfer override as mentioned in (B3).	N/A

Donald J. Youch Russelectric

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Russelectric Inc.

Startup Checklist for
Model 2000 Automatic Transfer Switches
for Portland International Jetport, Shop Order Number 35562

Serial # 35562-4 Model # RMTDCT-4004CEF
Voltage 277/480 Amps 400 Freq. 60 HZ
Customer I.D. ATS-4 Equipment

Procedure

1. Record the following serial numbers/revisions off of the components:

Microprocessor # 23115 Microprocessor Firmware Revision # 2.72

Normal Attenuator Board # 14742 Emergency Attenuator Board # 14835

Microprocessor Power Supply and Motor Control Board # 9271 Rev. H

2. Verify all wiring:

	INITIAL/DATE
Plug-in Connectors	DJY 07-22-2011
Control Circuit Wiring Terminals	DJY 07-22-2011

3. Verify the operation of the following LED indicators (which are located on the front of the controller:

	INITIAL/DATE
CPU Running	DJY 07-22-2011
ATS in Normal Position	DJY 07-22-2011
ATS in Emergency Position	DJY 07-22-2011

4. Verify the operation of the following status LED's (which are located on the right side of the controller:

	INITIAL/DATE
(TSN) Normal Position Indicator	DJY 07-22-2011
(NPA) Normal Power Available	DJY 07-22-2011
(TTN) Transfer to Normal (TD2, TDBT, TNTD timing)	DJY 07-22-2011
(ESR) Engine Start Relay Status (TD1 and AUT timing)	DJY 07-22-2011
(TSE) Emergency Position Indicator	DJY 07-22-2011
(EPA) Emergency Power Available	DJY 07-22-2011
(TTE) Transfer to Emergency (TD3, TDBT, TETD timing)	DJY 07-22-2011
(BTR/LSR) Block Transfer and Load Shed Status	N/A

5. Parameter Setup:

Timer Setup:

Record the following preset values of the eight timers associated with the control system:

AUT 300 Sec TD1 3.0 Sec TD2 300 Sec TD3 0 Sec

TDBT 12 Sec TDMI 1 Sec TETD 3 Sec TNTD 3 Sec

Russelectric Inc.
Startup Checklist for
Model 2000 Automatic Transfer Switches
for Portland International Jetport, Shop Order Number 35562

6. Verify the following functions:	INITIAL/DATE
Engine start signal	DJY 07-22-2011
Transfer to emergency	DJY 07-22-2011
Transfer to normal	DJY 07-22-2011
Load shed	N/A
Block transfer	N/A
Bypass block transfer	N/A
Load test	N/A
Bypass to Normal (RTB Only)	N/A
Bypass to Emergency (RTB Only)	N/A
Isolation (RTB Only)	N/A
Sneak Circuit Logic	DJY 07-22-2011

7. Verify the following annunciation:	INITIAL/DATE
Emergency Power Available	N/A
Normal Power Available	N/A
Normal Position	N/A
Emergency Position	N/A
Bypass Normal (RTB Only)	N/A
Bypass Emergency (RTB Only)	N/A
Switch Isolated (RTB Only)	N/A

8. **Normal Voltage**
A-N 281 B-N 282 C-N 283 VAC
A-B 490 B-C 493 C-A 492 VAC

Rotation "CW" A-B-C

9. **Emergency Voltage**
A-N 276 B-N 277 C-N 277 VAC
A-B 483 B-C 482 C-A 482 VAC

Rotation "CW"
Hz 59.99

10. Review accessory sheet and ensure all items have been tested and inspected.
Accessories - 1DX, 4B, 5A, 5C, 5D, 6B, 26, 27B, & PRR, are IN.

Russelectric Inc.
Startup Checklist for
Model 2000 Automatic Transfer Switches
for Portland International Jetport, Shop Order Number 35562

11. Procedures for Testing the load shed/block transfer logic.

		INITIAL/DATE
A.)	**Block Transfer**	
	1.) Ensure all interconnect wiring to switchgear has been tested.	DJY 07-22-2011
	2.) This ATS is priority number 1.	
	3.) Place the ATS in the test position.	N/A
	4.) Do not allow any Engines to close to the Emergency Bus.	N/A
	5.) Allow (1) Generator to close to the emergency bus.	N/A
	Ensure ATS does not transfer to the emergency bus.	
	6.) Allow 2nd generator to close to the bus. The ATS should only transfer until the appropriate number of engines are on line to match its priority sequence.	N/A
B.)	**Block Transfer Bypass**	
	1.) Place the ATS in the test position.	N/A
	2.) Allow (1) generator to close the emergency bus. Ensure ATS does not transfer.	N/A
	3.) Operate "Bypass Block Transfer Switch" on accessory plate. ATS will transfer to the emergency source with only (1) generator on the bus.	N/A
C.)	**Load Shed**	
	1.) Place the ATS in the test position and allow all of the Generators to start and transfer to the Emergency Bus.	N/A
	2.) Start shutting down the generators one at a time until the ATS transfers back to the utility source. The ATS should only transfer back to normal when there is less than the appropriate number of Generators on the Bus to match its priority.	N/A
	3.) The load shed condition will override the manual Block transfer override as mentioned in (B3).	N/A

Donald J. Youch Russelectric

781-749-6000 X5228

7. Delayed Egress Hardware Information

One Beacon Street
Third Floor
Boston MA 02108
USA

Tel 617.619.5700
Fax 617.619.5701

Gensler

November 24, 2010

Ms. Tammy Munson
City of Portland Planning and Development Department
Inspections Division
389 Congress Street
Portland, ME 04101-3509

Re: Portland International Jetport (PWM) Terminal Expansion
Request for Approval of Delayed Egress Door Hardware

Dear Ms. Munson:

For the terminal expansion project currently under construction at the Portland Jetport, we are seeking relief from the following section from the International Building Code (IBC) 2003 edition which prohibits the use of delayed egress hardware in Assembly occupancies:

"1008.1.8.6 Delayed egress locks. Approved, listed, delayed egress locks shall be permitted to be installed on doors serving any occupancy except Group A, E and H occupancies in buildings that are equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or an approved automatic smoke or heat detection system installed in accordance with Section 907, provided that the doors unlock in accordance with Items I through 6 below. A building occupant shall not be required to pass through more than one door equipped with a delayed egress lock before entering an exit."

Justification:
1. Delayed egress locks in new assembly occupancies are specifically allowed by NFPA 101 Life Safety Code, 2006 edition: "12.2.2.2.5 Delayed egress locks complying with 7.2.1.6.1 shall be permitted on doors other than main entrance/exit doors". The project must comply with NFPA 415, Standard on Airport Terminal Buildings, Fueling Ramp Drainage and Loading Walkways. NFPA 415: 4.3.1 refers all egress requirements to NFPA 101 Life Safety code, making it an applicable code for the Portland Jetport terminal expansion project.

2. Unlike many assembly occupancies, a commercial airport terminal has unique security requirements that are prescribed by the Department of Homeland Security and the Federal Aviation Administration. Delayed egress hardware is common at other new airport terminals across the country. Using standard exit hardware would allow unimpeded public access to secure areas in the terminal, including TSA baggage screening areas and the aircraft parking ramp, which would cause major security breaches, potential wholesale re-screening of passengers and airline delays.

One Beacon Street
Third Floor
Boston MA 02108
USA

Tel 617.619.5700
Fax 617.619.5701

Gensler

3. There are 25 delayed egress locks are currently in place in the existing Portland Jetport Terminal (see attachment 1 for locations).

4. Delayed egress door hardware is indicated on Door schedule drawing A00.30 and door hardware specification 08 71 00 that was submitted to the City of Portland for design review and building permit application.

We are seeking written City of Portland approval to install new delayed egress door hardware in selected locations other than the main entrance/exit doors, with a maximum delay of 15 seconds (as allowed by NFPA 101-12.2.2.2.5). We appreciate your timely attention to this request. Please contact me at (617) 619-5767 should you require any additional supporting documentation; we would be pleased to schedule a follow-up meeting if necessary.

Sincerely,

Jim Stanislaski, AIA
Project Architect

cc: Mr. Roy Williams, Portland International Jetport
Capt. Keith Gautreau, Portland Fire Department
Lt. Benjamin A. Wallace Jr., Portland Fire Department
Mr. Richard McCarthy, Office of State Fire Marshal

attachments:
1. Listing of existing delayed egress doors in existing terminal

Signature(s) below indicate City of Portland approval of items listed above without exception:

SIGNED,

_____

Title_____ Date_____

Existing Delayed Egress Doors at the Portland Jetport

Compiled by: Linda Nieves, Airport Security Coordinator on 11/18/2010

UPPER LEVEL

Gate 10 – Door # 76
TSA – to Sterile Area
Area 51
Gate 7
Hall Hold exist
Gate 4 – Emergency exit
Screening Double Doors – Emergency Exit
Gate 2 – Emergency Exit

Stationary Jetbridge:
Gate 2A – Emergency Exit
Gate 2 C – emergency Exit

Upper Level near HMS Host Office –
3 Emergency Exit Doors - large hallway leading to the baggage claim area.
1 Emergency Exit near HMS Host storage area to street non - secured area

LOWER LEVEL
JetBlue – Emergency Exit
US Airways – Near Revolver
HMS Host – Restaurant to Bag claim
HMS Host Hall Door from restaurant – 1210A
Host Exit to Ramp - 1116 – B
Bag claim Door - 11100 C
1100 – D
1100 – E
1100 – F
1105 – B Loading Dock door
1105 A – Hall loading dock across from elevator

Gensler

- Code compliant fire protection (sprinklers) would likely control a fire in the lower level baggage room or upper level departures lounges before structural failure.
- The terminal is only two stories at this location, with a short travel distance to a public way.
- Unlike most buildings, the airport terminal is manned 24 hours a day, 365 days a year with continuous monitoring of life safety systems.
- The airport fire station is manned 24 hours a day, 365 days a year and is immediately adjacent to the terminal.

We appreciate your timely attention to these requests. Please contact me at (617) 619-5767 should you require any additional supporting documentation; we would be pleased to schedule a follow-up meeting if necessary.

Sincerely,

Jim Stanislaski, AIA
Project Architect

cc: Mr. Paul Bradbury, Portland International Jetport
Mr. Keith Gautreau, Portland Fire Department

attachments:

1. Portland Fire Department comments
2. Site plan
3. View of terminal addition from west
4. Level 2 plan (ticketing hall and baggage make-up room)
5. Level 3 plan (departures lounges and concessions)
6. Level 4 plan (passenger security screening)
7. Interior view of atriums 1 and 2

Signatures below indicate City of Portland approval of items described above without exception:

SIGNED,

Date 11/13/2009

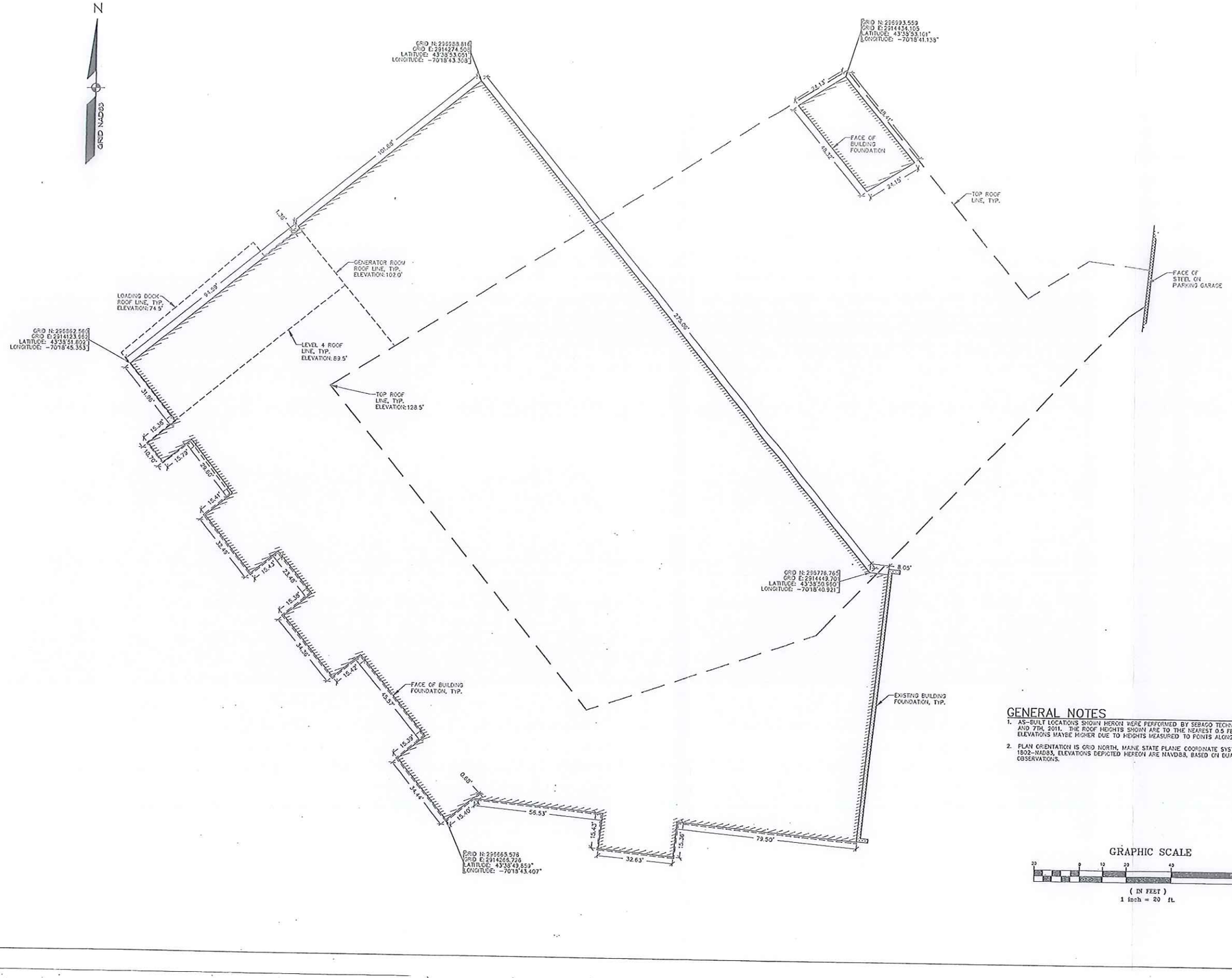
Chief Fred LaMontagne
Fire Chief, Portland Fire Department

SIGNED,

Capt. Keith Gautreau Date 11/13/2009

Captain Keith Gautreau
Fire Prevention Bureau, Portland Fire Department

8. Certified Plot Plan



GENERAL NOTES

1. AS-BUILT LOCATIONS SHOWN HEREON WERE PERFORMED BY SEBAGO TECHNICS, INC. JUNE 6TH AND 7TH, 2011. THE ROOF HEIGHTS SHOWN ARE TO THE NEAREST 0.5 FEET, ACTUAL ROOF ELEVATIONS MAYBE HIGHER DUE TO HEIGHTS MEASURED TO POINTS ALONG THE STEEL FASCIA.

2. PLAN ORIENTATION IS GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE, 1802–NAD83, ELEVATIONS DEPICTED HEREON ARE NAVD88, BASED ON DUAL FREQUENCY GPS OBSERVATIONS.

GRAPHIC SCALE

20 0 10 20 40 60

(IN FEET)
1 inch = 20 ft.

STATE OF MAINE
CHARLES LOWELL BROWN, JR. 12155 REGISTERED LAND SURVEYOR

REV:	BY:	DATE:	STATUS:
A	CLB	07-21-11	ISSUED FOR CLIENT USE

Sebago Technics
Engineering Expertise You Can Build On.
One Chabot Street
Westbrook, ME 04092-1329
Tel (207) 856-0277
200 Goddard Road - Suite B
Lewiston, ME 04240
Tel (207) 783-9653
WWW.SEBAGOTECHNICS.COM

PROJECT NO.	FIELD BOOK	DESIGN	CHKD	DRAWN
10098	-	-	CLB	BAM/BRF

AS-BUILT
OF:
PORTLAND INTERNATIONAL JETPORT
TERMINAL EXPANSION
WESTBROOK STREET
PORTLAND, MAINE
FOR:
TURNER CONSTRUCTION
TWO SEAPORT LANE
BOSTON, MA. 02210

DATE	SCALE
08-21-11	1"=20'

SHEET 1 OF 1

10098AB-2011.dwg, TAB: AB

9. Mineral Wall

JETPORT

MODULAR ARTS MINERAL WALL

A. Ambient Conditions:
   1. HVAC: Operate HVAC system to maintain occupancy level temperature and relative humidity conditions (35 to 67 percent) in the area of installation from 24 hours prior to delivery of tiles to the installation area through remainder of construction period.
   2. Lighting: Permanent project lighting, including any special lighting used to highlight the profile tiles, must be operational prior to seam finishing.

1.10 WARRANTY

A. Manufacturer Warranty: Provide manufacturer's standard limited warranty

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Modular Arts, Inc.

CORRESPONDENCE & BILLING ADDRESS:
944 NW Leary Way
Seattle, WA 98107

SHIPPING & RECEIVING ADDRESS:
4215 - 23rd Avenue West
Seattle, WA 98199

Tel: 206.788.4210
Fax: 206.788.4214
E-mail: info@modularArts.com
Website: www.modularArts.com

B. Substitution Limitations: None permitted.

2.2 COMPONENTS

A. Profile Tile: Smooth surface solid mineral composite tile containing no release agents.
   1. Size: 16 by 16 by 1 inch maximum tile thickness.
   2. Physical Properties:

a.	Tensile Strength: ASTM D 638	960 psi.
b.	Modulus of Elasticity: ASTM D 638	1970 ksi.
c.	Flexural Strength: ASTM D 790	550 psi.
d.	Flexural Modulus: ASTM D 790	360 ksi.
e.	Izod Impact Strength: ASTM D 256	9.4 ft-lb/in^2.
f.	Hardness: ASTM D 2583	60 Barcol.
g.	Thermal Expansion: ASTM D 696	3.8x10^{-7}in/in °F.
h.	Compressive Strength: ASTM D 696	2.3 ksi.
i.	Flame Spread Index: ASTM E 84	0
j.	Smoke Development Index: ASTM E 84	0
k.	Weight (for all designs)	4.25 psf

SELECT DESIRED DESIGN FROM MODULAR ARTS WEBSITE www.modulararts.com; CLICK ON "InterlockingRock® TILES" TO VIEW DESIGNS. INSERT DESIRED DESIGN BELOW.

3. Design: _____© ; [horizontal] [vertical] orientation.

10. Furniture

Bodycote MATERIALS TESTING CANADA INC. www.na.bodycote-mt.com

2395 SPEAKMAN DRIVE, MISSISSAUGA, ONTARIO CANADA L5K 1B3 • TEL: (905) 822-4111 • FAX: (905) 823-1446

California Technical Bulletin 117
Section A Part I, Flame Resistance of "550A/550B" Foam

A Report To:	**Arconas Corporation** 580 Orwell Street Mississauga, ON L5A 3V7
Phone:	(905) 272-0727
Fax:	(905) 897-7470
Attention:	Lowell Hendriks hendrick@arconas.com
Submitted By:	Fire Testing
Report No.	05-02-443(A)(Revision 1) 3 pages
Date:	June 21, 2005

ACCREDITATION Standards Council of Canada, Registration #1.

REGISTRATION ISO 9001:2000, registered by QMI, Registration #001109.

SPECIFICATIONS OF ORDER

Determine flame resistance in accordance with California Technical Bulletin 117, Section A Part I, as per your Purchase Order No. 010374 dated June 7, 2005.

IDENTIFICATION

The foam material is a two component system which is comprised of, and identified as "550A and 550B".

This report was originally issued June 13, 2005 and is re-issued to change the sample name.

(BMTC sample identification number 05-02-S0443)

SUMMARY OF TEST PROCEDURE

A specimen, 12" x 3" x ½", is held in a wire frame and placed vertically inside a test chamber. The material is subjected to a 1½" high test flame for a period of 12 seconds with the bottom edge of the material hanging 3/4" into the flame. Char length, afterflame time and afterglow time are measured.

Testing is performed on specimens both before and after aging at 104°C for 24 hours.

TEST RESULTS

California Technical Bulletin 117
Section A Part I

Before aging:

	Burn Length (in)	Afterflame Time (s)	Afterglow Time (s)	
1:	3.5	0.0	0.0	
2:	4.1	0.0	0.0	
3:	4.9	1.3	0.0	
4:	5.1	2.9	0.0	
5:	4.0	0.0	0.0	
Average:	4.3	0.8	0.0	
Specified Max:	6.0	5.0	15.0	(Average)
	8.0	10.0	-	(Individual)

TEST RESULTS (Cont..)

California Technical Bulletin 117
Section A Part I

After aging @ 104°C for 24 hours

	Burn Length (in)	Afterflame Time (s)	Afterglow Time (s)	
1:	4.8	0.0	0.0	
2:	3.9	1.3	0.0	
3:	3.8	1.8	0.0	
4:	4.3	3.0	0.0	
5:	3.9	1.2	0.0	
Average:	4.1	1.5	0.0	
Specified Max:	6.0	5.0	15.0	(Average)
	8.0	10.0	-	(Individual)

CONCLUSIONS

The foam material identified in this report meets the flammability requirements of California Technical Bulletin 117, Section A, Part I.

Anne-Lise Larsen,
Fire Testing

Richard J. Lederle,
Fire Testing

Note: This report consists of 3 pages, including the cover page, that comprise the report "body". It should be considered incomplete if all pages are not present.

Bodycote MATERIALS TESTING CANADA INC. www.na.bodycote-mt.com

2395 SPEAKMAN DRIVE, MISSISSAUGA, ONTARIO CANADA L5K 1B3 • TEL: (905) 822-4111 • FAX: (905) 823-1446

California Technical Bulletin 117
Section D Part II, Smolder Screening of "550A/550B" Foam

A Report To:	**Arconas Corporation** 580 Orwell Street Mississauga, ON L5A 3V7
Phone:	(905) 272-0727
Fax:	(905) 897-7470
Attention:	Lowell Hendriks hendrick@arconas.com
Submitted By:	Fire Testing
Report No.	05-02-443(B) (Revision 1) 2 pages
Date:	June 21, 2005

ACCREDITATION Standards Council of Canada, Registration #1.

REGISTRATION ISO 9001:2000, registered by QMI, Registration #001109.

SPECIFICATIONS OF ORDER

Determine cigarette smolder resistance in accordance with California Technical Bulletin 117, Section D Part II, as per your Purchase Order No. 010374 dated June 7, 2005.

IDENTIFICATION

(BMTC sample identification number 05-02-S0443)

The foam material is a two component system which is comprised of, and identified as "550A and 550B".

This report was originally issued June 13, 2005 and is re-issued to change the sample name.

SUMMARY OF TEST PROCEDURE

Two pieces of the foam material to be tested are each covered by a standard cotton upholstery fabric. The two pieces are placed on a test rig which simulates,a chair seat and back configuration. A lighted cigarette is placed in the crevice formed by the juncture of the seat and back and is covered by a small piece of cotton sheeting to intensify the heat. The weight loss of the assembly is measured.

TEST RESULTS

California Technical Bulletin 117
Section D Part II

Trial	Initial Weight (g)	Final Weight (g)	Weight Loss (%)
1	150.3	148.5	1.2
2	146.6	144.9	1.2
3	152.2	150.5	1.1

Specified Maximum (%): 20.0

CONCLUSIONS

The foam material identified in this report meets the requirements of California Technical Bulletin 117, Section D, Part II.

Anne-Lise Larsen,
Fire Testing

Richard J. Lederle,
Fire Testing

Note: This report consists of 2 pages, including the cover page, that comprise the report "body". It should be considered incomplete if all pages are not present.

team performance

ESPRIT

Resilience SR
ENDURING PROTECTION

team performance

ESPRIT

Resilience SR ENDURING PROTECTION

Applications	Hospitality, Contract, Healthcare, Office, Automotive, RV, Marine, Education
Width	54"
Roll Size	30 Yards
Weight	30 Ounces per Linear Yard
Backing	Polyester/Rayon Knit
Abrasion Resistance	250,000+ Double Rubs Per ASTM D 4157 Wyzenbeek
Cold Crack	-20°F

Ultra Violet Resistant to 500 Hours
Bacterial Resistant per AATCC 147
Mildew Resistant per ASTM G21
Sulfide Stain Resistant
Oil Resistant
Heat Sealable

Flammability Requirements*:
California Fire Code Technical Bulletin No. 117, Section E
UFAC Class 1
BIFMA
NFPA 260
MVSS 302
Boston Fire Department Code Test BFD IX-1
Port Authority of New York / New Jersey
IMO A.652(16)8.2
Federal Specification A-A-2950
May Comply with California 133 when Tested with Suitable Components.

Cleaning Instructions:
Prompt cleaning is always recommended.
Ordinary dirt and stains can be removed with a mild soap and water.
Rinse the soiled area with clean water and dry with lint-free cloth.
Esprit will resist, without serious discoloration, the repeated actions of normal dilutions of non-abrasive chlorine or ammonia-based cleaners.

Resilience SR ENDURING PROTECTION **Resilience^{SR}** represents the latest technology in Faux Leather and Vinyl Protection, enhancing performance where it is needed the most:

Stain Resistance: With proper care, materials treated with **Resilience^{SR}** can be easily cleaned and will guard against stains maintaining the desired surface appearance for years to come.

Anti-Microbial & Anti-Bacterial Protection: Products treated with **Resilience^{SR}** are engineered to inhibit bacterial growth, as well as fungus, mold and mildew spores, resulting in a more hygienic environment.

Abrasion Resistance: **Resilience^{SR}** provides additional wear properties and surface durability to any Vinyl or Faux Leather, thereby increasing the life of the material.

Resilience^{SR} is not visible, and does not affect the hand of the material. **Resilience^{SR}** is engineered to last, even after repeated cleaning and wear. Specify **Resilience^{SR}** for the most demanding healthcare and hospitality applications.

*This term and any corresponding data refer to typical performance in the specific tests indicated and should not be construed to imply the behavior of this or any other material under actual fire conditions. 9.8

11. Hanging Plane Information

Colby Company, LLC
47A York Street
Portland, ME 04101
(207) 553-7753

Structural Engineering
Mechanical Engineering
Electrical Engineering
Civil Engineering

September 7, 2011

Mr. Geoffrey Mitchell
Turner Construction Company
23 International Parkway
Portland, ME 04102

Subject: Airplane Support Cables
Portland International Jetport
Portland, Maine

Dear Mr. Mitchell:

At your request, Colby Company has performed a review of the cables that support the small wooden plane, the Antoinette, which is currently hanging from some of the roof framing in an area of the Jetport currently under construction by your firm. Our review is based on my site visit to the jetport on August 30, 2011 to observe the existing conditions. This letter presents a summary of my observations and findings.

According to the e-mail to you from Karl Erickson that you provided to me during my site visit the total weight of the plane is 700 pounds. The bulk of the plane weight is supported by a vertical cable located over the cockpit area of the plane that is suspended below a glulam roof beam with a U-shaped steel bracket. You indicated during my site visit that the U-bracket was designed by AMEC Earth and Environmental, Inc. from South Portland, Maine, and that AMEC also reviewed the glulam framing for the loads applied by the hanging plane. You also indicated that AMEC had been on site to review the as-built hanger conditions and had no issues with the hanger support detail. A second vertical cable to stabilize the plane in the proper hanging position was added above the tail section of the plane. This cable is supported by an eye-bolt screwed to the side of another of the glulam roof support beams.

According to Karl Erickson's email, the main cable over the cockpit area is a ¼" stainless 7 x 19 MIL-DLT-83420 with a breaking strength of 6,400 pounds, and the stabilizing cable over the tail section is a 1/8" galvanized MIL-DLT-83420 with a breaking strength of 2000 pounds.

Based on the data supplied for the cables, our judgment is that the cables are adequate to support the weight of the plane.

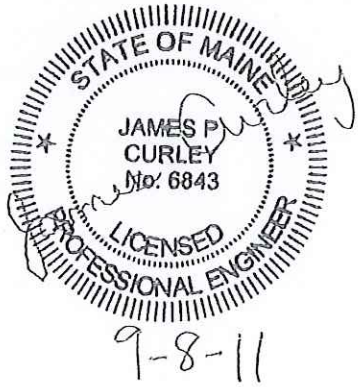
Please do not hesitate to contact my office if there are any questions on this matter.

Thank you.

Sincerely,

James P. Curley

James P. Curley, P.E.



9-8-11

STRUCTURAL SPECIAL INSPECTION SITE VISIT REPORT

Project Name:	Portland Jetport Terminal Expansion and Enhancements
Project Location:	Portland, Maine
AMEC Project Number:	5330132.****.****
Client:	Gensler Worldwide Planning & Architecture

Discipline: Structural **Site Visit Report No:** S-0088-081711

Present at Site:	Name	Company	Title	Contact Information
Inspectors:	Justin Desjarlais	AMEC E&E	Structural Eng. Professional	(207) 761-1770
Contractor:	Michael Fusco	Turner	Superintendent	(617) 722-4370

Date of Site Visit: 08-17-2011 **Time:** 15:30 **Weather:** Sunny **Temperature:** 70F

Purpose of Visit: Inspect suspended airplane hanger connection to glulam roof

Work In Progress: General cleaning and installation of finishes through terminal

Observations: I signed in at Turner's trailer and proceeded to Level 4 below the airplane. A Turner employee contacted Mike Fusco by radio and requested a man-lift operator so I could access the hanger connection over the airplane.

The following are the observations from the hanger inspection site visit:

- The plate thicknesses match those of the design documents
- The side plate dimensions match those of the design documents
- The bottom plate was fabricated wider than the glulam
- There is a gap between the side plates and glulam
- The side plates were bent when the bolt through the glulam was tightened
- Bolt holes and edge distances match those of the design documents

Items to Verify:

Information or Action Required:

Report By: Justin Desjarlais – AMEC E&E

Photos: S:\533 Gensler - Portland Jetport\533.01.32 Construction Admin\Construction\Reports\Site Visits\Structural Site Visits\08-17-11

Distribution: Jeff Evans – AMEC E&E

Reviewed By: Jeff Evans, P.E.

S:\533 Gensler - Portland Jetport\533.01.32 Construction Admin\Construction\Reports\Site Visits\Structural Special Inspection Site Visits\2011\08-17-11\S-0088-081711.docx

AMEC Earth & Environmental
343 Gorham Road
South Portland, ME 04106
Phone: (207) 761-1770

12. CD's

a. Contract Documents

b. Site Work As-Builts

c. 3rd Party Test Reports