

Project: 61 India Street Back Building Stabilization and Addition
Date Prepared: June 20, 2012

Structural Statement of Special Inspections

Project: 61 India Street Back Building Stabilization and Addition

Location: 61 India Street, Portland, Maine

Owner: Pearl Properties LLC, 198 Tuttle Road, Cumberland, ME 04021

This *Statement of Special Inspections* encompass the following discipline: **Structural**

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 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.

Interim reports shall be submitted to the Building Official and the Structural Registered Design Professional in Responsible Charge at an interval determined by the SSIC and the BCO.

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.

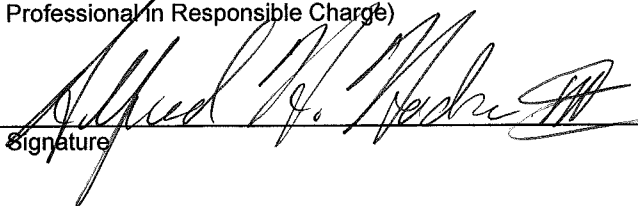
Job site safety and means and methods of construction are solely the responsibility of the Contractor.

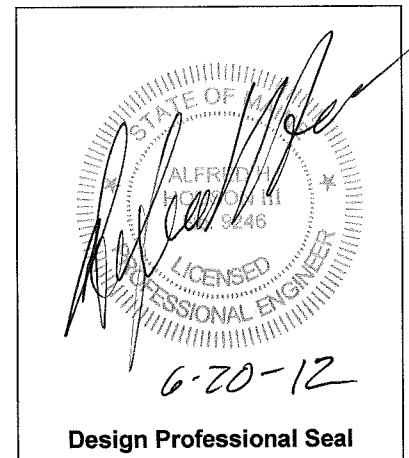
Interim Report Frequency: Upon request of Building Official _____ or per attached schedule.

Prepared by:

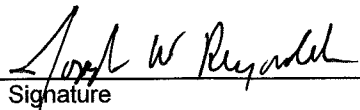
Alfred H. Hodson III, P.E.

(type or print name of the Structural Registered Design Professional in Responsible Charge)


Signature _____ Date 6/20/12



Owner's Authorization:


Signature _____ Date 6/20/12

Building Code Official's Acceptance:

Signature _____ Date _____

Structural Statement of Special Inspections (Continued)

List of Agents

Project: **61 India Street Back Building Stabilization**
 Location: **61 India Street, Portland, Maine**
 Owner: **Pearl Properties, LLC, 198 Tuttle Road, Cumberland, Maine 04021**
 This *Statement of Special Inspections* encompass the following discipline: **Structural**

(Note: Statement of Special Inspections for other disciplines may be included under a separate cover)

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- Soils and Foundations
- Cast-in-Place Concrete
- Precast Concrete System
- Masonry Systems
- Structural Steel
- Wood Construction
- Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. STRUCTURAL Special Inspections Coordinator (SSIC) and Special Inspector SI 1	Resurgence Engineering & Preservation, Inc. Attn: Alfred H. Hodson III, P.E.	132 Brentwood Street Portland, ME 04103 (207)773-4880 al@resurgenceengineering.com
2. Testing Agency (TA 1)	Summit Attn: Mike Walsh	1 Industrial Way, Suite 7 Portland, ME 04103
3. Testing Agency (TA 2)	Michael Drew Inspections LLC Attn: Mike Drew	7 Gretchen Lane Standish, ME 04084
4. Other (O1)		

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

Building Official Please Note: The Building Owner was the Contractor who performed most of the work on this project.

Project: 61 India Street Back Building Stabilization and Addition
Date Prepared: June 20, 2012

Structural Statement of Special Inspections (Continued)

Final Report of Special Inspections (SSIC/SI 1)

[To be completed by the Structural Special Inspections Coordinator (SSIC/SI 1). Note that all Agent's Final Reports must be received prior to issuance.]

Project: 61 India Street Back Building Stabilization and Addition
Location: 61 India Street, Portland, ME 04101
Owner: Pearl Properties, LLC
Owner's Address: 198 Tuttle Road
Cumberland, ME 04021

Architect of Record: T. Scott Teas TFH Architects
(name) (firm)

Structural Registered Design Professional in Responsible Charge: Alfred H. Hodson III, P.E. Resurgence Engineering & Preservation, Inc.
(name) (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.

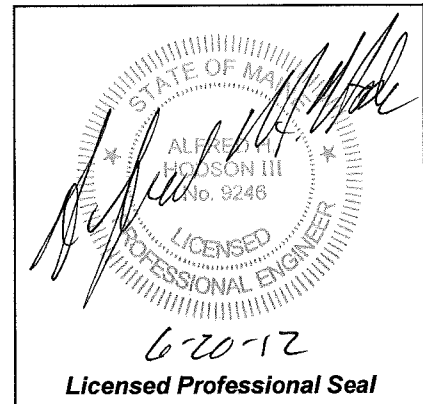
Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,
Structural Special Inspection Coordinator

Alfred H. Hodson III, P.E.
(Type or print name)

Resurgence Engineering & Preservation, Inc.
(Firm Name)

 6/20/12
Signature Date



Structural Statement of Special Inspections (Continued)

Special Inspector's/Agent's Final Report

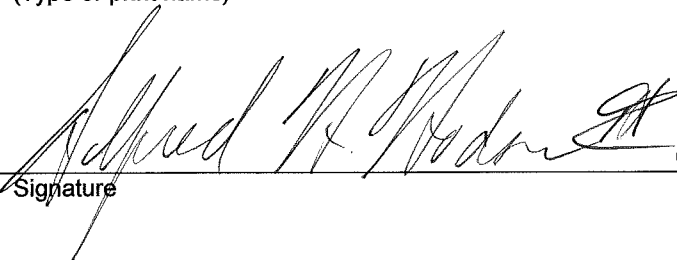
Project: *61 India Street Back Building Stabilization and Addition*
Special Inspector or Agent: **Alfred H. Hodson III, P.E.** **Resurgence Engineering & Preservation, Inc.**
(name) *(firm)*
Designation: Structural Special Inspection Coordinator

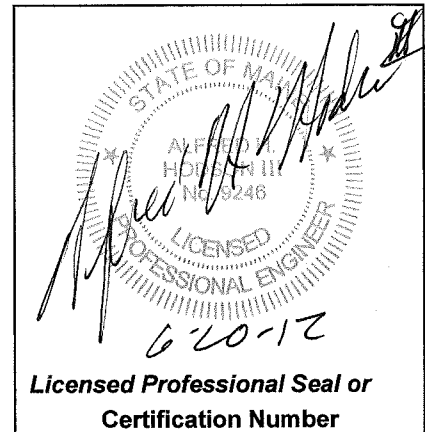
To the best of my information, knowledge and belief, the Special Inspections or testing required for this project, and designated for this Inspector/Agent in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved.

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,
Special Inspector or Agent:

Alfred H. Hodson III, P.E.
(Type or print name)


Signature 6/20/12
Date



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
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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

Other

Structural Schedule of Special Inspections

SOILS & FOUNDATION CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
IBC Section 1704.7, 1704.8, 1704.9						
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 (each wall segment)	IBC 1704.7.1	1	PE/GE, EIT or ETT	Completed
b. During placement and compaction of fill material, verify material being used and maximum lift thickness comply with the approved soils report.	Y	P (each wall segment)	IBC 1704.7.2	1	PE/GE, EIT or ETT	Completed
c. Test in-place dry density of compacted fill complies with the approved soils report.	N/A	P (each wall segment)	IBC 1704.7.2	1	PE/GE, EIT or ETT	Completed

Structural Schedule of Special Inspections

CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
IBC Section 1704.4						
1. Inspection of reinforcing steel, including placement	Y	P	ACI 318: 3.5, 7.1-7.7	1	PE/SE or EIT	Completed
2. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased	Y	C	IBC 1912.5	1	PE/SE or EIT	Completed
3. Verifying use of required design mix	Y	P	ACI 318: Ch 4, 5.2-5.4	1	PE/SE or EIT	Completed
4. At time fresh concrete is sampled to fabricate specimens for strength test, perform slump and air content test and temperature	Y	P (new fdn pours over 10 yards)	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	2	ACI-CFTT or ACI-STT	Completed
5. Inspection of concrete placement for proper application techniques	Y	C	ACI 318: 5.9, 5.10	1	PE/SE or EIT	Completed
6. Inspection for maintenance of specified curing temperature and techniques	Y	P	ACI 318: 5.11-5.13	1	PE/SE or EIT	Completed

Refer to Individual dated field reports, attached, for specific observations during different pours.

Structural Schedule of Special Inspections
MASONRY CONSTRUCTION – LEVEL 1 (NON-ESSENTIAL FACILITY)

VERIFICATION AND INSPECTION IBC Section 1704.5	Y/N	EXTENT: 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	1	PE/SE or EIT	Completed
b. Construction of mortar joints.	Y	P	ACI530.1, 3.3B	1	PE/SE or EIT	Completed
c. Location of reinforcement and connectors.	Y	P	ACI530.1, 3.4, 3.6A	1	PE/SE or EIT	Completed
2. The inspection program shall verify:						
a. Size and location of structural elements.	Y	P	ACI530.1, 3.3G	1	PE/SE or EIT	Completed
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	1	PE/SE or EIT	Completed
c. Specified size, grade and type of reinforcement.	Y	P	ACI530, 1.12, ACI530.1, 2.4, 3.4	1	PE/SE or EIT	Completed
3. Prior to grouting, the following shall be verified to ensure compliance:						
a. Grout space is clean.	Y	P	ACI530.1, 3.2D	1	PE/SE or EIT	Completed
b. Placement of reinforcement and connectors	Y	P	ACI530, 1.12, ACI530.1, 3.4	1	PE/SE or EIT	Completed
c. Proportions of site-prepared grout	Y	P	ACI530.1, 2.6B	1	PE/SE or EIT	Completed
d. Construction of mortar joints.	Y	P	ACI530.1, 3.3B	1	PE/SE or EIT	Completed
4. Grout placement shall be verified to ensure compliance with code and construction document provisions.	Y	C	ACI530.1, 3.5	2	PE/SE or EIT	Completed
5. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	Y	C	IBC 2105.2.2, 2105.3; ACI530.1, 1.4	2	PE/SE or EIT	Completed
6. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	Y	P	ACI530.1, 1.5	1	PE/SE or EIT	Completed

Note: This Inspection Work applied only to the construction of the masonry demising wall between the back building and the existing ell. Wall measures approximately 18 feet wide x 30 feet high, and is braced at three floor levels.

Structural Schedule of Special Inspections - STEEL CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.3	Y/N	EXTENT: 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;	1	PE/SE or EIT	Completed
b. Manufacturer's certificate of compliance required.	Y	P		1	PE/SE or EIT	Completed
2. Inspection of high-strength bolting						
a. Bearing-type connections.	Y	P	AISC LRFD Section M2.5	3	AWS/AISC-SSI	Completed
b. Slip-critical connections.	N	C or P (method dependent)	IBC Sect 1704.3.3	n/a	AWS/AISC-SSI	Completed
3. Material verification of structural steel (IBC Sect 1708.4):						
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4	1	PE/SE or EIT	Completed
b. Manufacturers' certified mill test reports.	Y	S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4	1	PE/SE or EIT	Completed
4. Material verification of weld filler materials:						
a. Identification markings to conform to AWS specification in the approved construction documents.	Y	S	AISC, ASD, Section A3.6; AISC LRFD, Section A3.5	1	PE/SE or EIT	Completed
b. Manufacturer's certificate of compliance required.	Y	S		1	PE/SE or EIT	Completed
5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.	Y	S	AWS D1.1	3	PE/SE or EIT	Completed
6. Inspection of welding (IBC 1704.3.1):						
a. Structural steel:						
1) Complete and partial penetration groove welds.	Y	C	AWS D1.1	3	AWS-CWI	Completed
2) Multipass fillet welds.	N	C		n/a	AWS-CWI	n/a
3) Single-pass fillet welds > 5/16"	N	C		n/a	AWS-CWI	n/a
4) Single-pass fillet welds < 5/16"	Y	P		n/a	AWS-CWI	n/a
5) Floor and deck welds.	N	P	AWS D1.3	n/a	AWS-CWI	n/a
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		1	PE/SE or EIT	Completed
b. Member locations.	Y	P		1	PE/SE or EIT	Completed
c. Application of joint details at each connection.	Y	P		1	PE/SE or EIT	Completed

Structural Schedule of Special Inspection Services

FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

VERIFICATION AND INSPECTION IBC Section 1704.2	Y/N	EXTENT: 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	S	Fabricator shall submit one of the two qualifications	3	AWS AISC/SSI	Completed
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	1	PE/SE or EIT	Completed

Structural Schedule of Special Inspections
WOOD CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.6	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Fabrication of high-load diaphragms						
a. Verify wood structural panel sheathing for grade and thickness	Y	P	IBC 1704.6	1	PE/SE or EIT	Completed
b. Verify the nominal size of framing members at adjoining panel edges	Y	P	IBC 1704.6	1	PE/SE or EIT	Completed
b. Verify the nail or staple diameter and length	Y	P	IBC 1704.6	1	PE/SE or EIT	Completed
b. Verify the number of fastener lines	Y	P	IBC 1704.6	1	PE/SE or EIT	Completed
b. Verify the spacing between fasteners in each line and at edge margins	Y	P	IBC 1704.6	1	PE/SE or EIT	Completed
2. Load Tests for Joist Hangers: Provide evidence of manufacturer's load test in accordance with ASTM D1761 including the vertical load bearing capacity, torsional moment capacity, and deflection characteristics when there is no calculated procedure recognized by the code.	Y	S	IBC 1715 [submit ICBO reports]	1	PE/SE or EIT	Completed

Structural Schedule of Special Inspections

SEISMIC RESISTANCE - STRUCTURAL

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
IBC Section 1707						
1. Special inspections for seismic resistance. Special inspection as specified in this section is required for the following:			Seismic Design Category: B			
a. The seismic-force-resisting systems in structures assigned to Seismic Design Category C, D, E or F	N	N/A	IBC 1707.1	N/A	N/A	N/A
2. Structural steel: Continuous special inspection for structural welding in accordance with AISC 341.	N	N/A	IBC 1702.2	N/A	N/A	N/A
3. Structural wood:						
a. Continuous special inspection during field gluing operations of elements of the seismic-force-resisting system.	N	N/A	IBC 1702.3	N/A	N/A	N/A
b. Periodic special inspections for nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system, including drag struts, braces and hold-downs	N	N/A	IBC 1702.3	N/A	N/A	N/A

Quality Assurance Plan – Seismic and Wind

QUALITY ASSURANCE FOR SEISMIC RESISTANCE CHECK LIST [IBC 1705]

Seismic Design Category B (NOT APPLICABLE)

FOR SEISMIC DESIGN CATEGORY C OR HIGHER:

Structural:

The seismic-force-resisting systems

Steel Braced Frames and associated connections/anchorage

Steel Moment Frames and associated connections

Shear walls: CMU Wood Concrete Diaphragms: Floor Roof

Other:

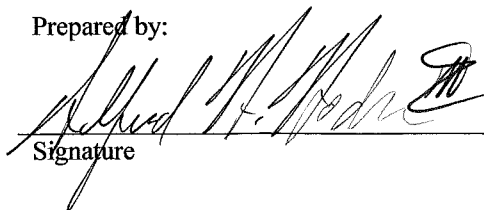
QUALITY ASSURANCE FOR WIND RESISTANCE CHECK LIST [IBC 1706]

Wind Exposure Category B

REQUIRED	NOT REQUIRED	NOT APPLICABLE	QUALITY ASSURANCE PLAN REQUIREMENTS (A Quality Assurance Plan is required where indicated below)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	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:

Building Code Official's Acceptance:

 6-20-12
 Signature Date

 Signature Date

Contractor's Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated in the Quality Assurance Plan must submit a Statement of Responsibility. The Statement of Responsibility is required for Seismic Design Category C or higher. Make additional copies of this form as required.

Project: 61 India Street Back Building Stabilization and Addition

Contractor's Name: Pearl Properties, LLC

Address: 198 Tuttle Road, Cumberland, ME 04021

License No.: not applicable in Maine

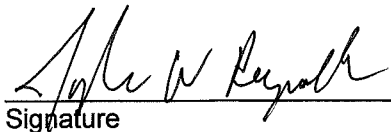
Description of designated building systems and components included in the Statement of Responsibility:

Contractor's Acknowledgment of Special Requirements

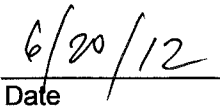
Building Official Please Note: The Building Owner is the Contractor who performed most of the work on this project.

I hereby acknowledge that I have received, read, and understand the Quality Assurance Plan and Special Inspection program.

I hereby acknowledge that control will be exercised to obtain conformance with the construction documents approved by the Building Official.



Signature



Date

Contractor's Provisions for Quality Control

Procedures for exercising control within the contractor's organization, the method and frequency of reporting and the distribution of reports is attached to this Statement.

Identification and qualifications of the person(s) exercising such control and their position(s) in the organization are attached to this Statement.