

(Engineer of Record unless otherwise approved by LANL) for conformance to the approved construction documents at significant construction stages and at completion of the structural system.

Interim Report Frequency: *Daily as inspections are performed*

Signature Page

Statement of Special Inspections Prepared By:

Statement of Special Inspections Submitted By:

(type or print name)

(type or print name)

Signature

Date

Signature

Date

<i>Design Professional Seal Structural</i>	<i>Design Professional Seal Architectural</i>
<i>Design Professional Seal Mechanical</i>	<i>Design Professional Seal Electrical</i>

LBO stamp applied by LANL Design Eng.

LANL Inspection Group (CM-CE)

Signature

Date

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections includes the following building systems:

- | | |
|---|--|
| <input type="checkbox"/> Soils and Foundations | <input type="checkbox"/> Spray Fire Resistant Material |
| <input type="checkbox"/> Cast-in-Place Concrete | <input type="checkbox"/> Wood Construction |
| <input type="checkbox"/> Precast Concrete | <input type="checkbox"/> Exterior Insulation and Finish System |
| <input type="checkbox"/> Masonry | <input type="checkbox"/> Mechanical & Electrical Systems |
| <input type="checkbox"/> Structural Steel | <input type="checkbox"/> Architectural Systems |
| <input type="checkbox"/> Cold-Formed Steel Framing | <input type="checkbox"/> Special Cases |
| <input type="checkbox"/> Fabricators of Structural Load Bearing Members | |

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. IBC Special Inspector	LANL	LANL
2. Soils Testing Agency	TBD	TBD
3. Concrete Testing Agency	TBD	TBD
4. Masonry Testing Agency	TBD	TBD
5. Steel/Rebar Testing Agency	TBD	TBD
6. Other	TBD	TBD
7. Engineer of Record	TBD	TBD

TBD: To Be Determined

Note: The inspectors shall be engaged by the LANL or LANL's Agent, and not by a Subcontractor whose work is to be inspected. The testing agencies shall be engaged by the Subcontractor but must be approved by

the LANL Building Official (LBO). Any conflict of interest must be disclosed to the LANL Chief Inspector prior to commencing work.

When project includes construction or fabrication of a main wind- or seismic-force-resisting system, designated seismic system, or a wind- or seismic-resisting component, list required inspections in this document and list the need to submit a Subcontractors Statement of Responsibility with respect to Special Inspections in accordance with IBC-IP Appendix H to LANL as a submittal prior to the commencement of work in Exhibit I (or Spec Section 01 3300 if self-performed by LANL), Submittal Procedures and 01 4000, Quality Requirements. Also, delete this note to author.

Seismic Resistance Plan

Systems for Seismic Resistance

Seismic Design Category D

Statement of Responsibility Required (Y/N) Y

Description of seismic force resisting system and designated seismic systems:

Seismic Force Resisting System:

- *Main Seismic Force Resisting System: Ordinary Steel Concentric Braced Framing*

Designated Seismic System Components:

Mechanical

- *Exhaust Ventilation System*
- *Hazardous Waste System*
- *Fire Sprinklers/Suppression*

Electrical

- *Fire Alarm System*
- *Lightning Protection System*

Architectural

- *Exterior Doors*
- *Shaft Walls Panel System*

- List any Special Testing required by the AISI-341 which is associated with seismic-resistant design
- Indicate whether "Demand-Critical" welding is required so fabricator can determine whether they have enough qualified welders to meet the need

Wind Resistance Plan

Basic Wind Speed (3 second gust) 90

Wind Exposure Category C

Statement of Responsibility Required (Y/N) N

Description of wind force resisting system and designated wind resisting components:

N/A

Statement of Responsibility

Each Subcontractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing testing activities are subject to the approval of the LANL Building Official. The credentials of all testing technicians shall be provided if requested.

Key for Inspector Qualifications:

LANL IBC Inspector Qualification Guidelines are found in the LANL Engineering Standards Manual (ESM) Chapter 16 – IBC Program, Section IBC-TIA – IBC Test and Inspection Agency Approval Process – Attachment B – LANL IBC Inspector Qualification Guidelines. Only approved inspectors may perform IBC or IEBC inspections at LANL. The approval authority shall be the LANL Chief Inspector.

Note: Qualification to a main category listed with a single-letter designation implies qualification to all subcategories listed with a double-letter designation where the first letter of the subcategory designator is the same as the main category designator (e.g., a “B” masonry inspector can perform both “BC” structural inspection and witness “BT” masonry testing; however, a BC inspector cannot do BT unless specifically indicated).

Steel Fabricators: (A)

Masonry: (B)

Masonry Structures: (BC)

Masonry Testing: (BT)

Concrete: (C)

Footings and Foundations: (CF)

Concrete Slab and Under-floor: (CS)

Other Concrete Construction: (CC)

Concrete Testing: (CT)

Electrical: (E)

Electrical within concrete slab or under-floor: (EC)

Electrical within wall framing: (EF)

Fireproofing: (F)

Sprayed Fire Resistant Materials: (FS)

Fire Resistant Penetrations: (FP)

Soils: (G)

Soils Placement: (GS)

Soils Testing: (GT)

Special Cases: (H)

Expansion Anchors: (HA)

Epoxy Anchors: (HE)

Undercut Anchors: (HU)

Welding (HW)

Exterior Insulation and Finish Systems: (I)

Smoke Control: (K)

Lath and Gypsum Board Inspection: (L)

Mechanical: (M)

Plumbing within concrete slab or under-floor:

Plumbing within wall framing: (MF)

Plumbing (Final Inspection): (MP)

Mechanical (Final Inspection): (MM)

Mechanical Welding: (MW)

Energy Efficiency: (N)

Piles: (P)

Piers: (R)

Steel: (S)

High Strength Bolted Steel: (SB)

Welded Steel: (SW)

Other Steel: (SO)

Wall and Panel Veneers: (V)

Wood Construction: (W)

The final scope of the inspections required for the project must be determined by the Design Professional in Responsible Charge (DPIRC) **but shall not be less than those required by IBC Chapter 17**. [the engineer-of-record cannot delete any special inspections specified by the code or the tables in Chapter 17 unless they are not applicable (e.g., there is no masonry) nor can they change inspections marked

“continuous” to “periodic”. The engineer-of-record can and should add additional inspection beyond the IBC minimum where appropriate.]

Soils and Foundations

Item	Agency # (Qualif)	Scope	Monitoring*		Hold** Point
			Continuous	Periodic	
1.	Shallow Foundations	7 (Civil PE)	<i>Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report.</i>		Y
2.	Controlled Structural Fill	1 (G/GS)	<i>Prior to placement of the prepared fill, the special inspector shall determine that the site has been prepared in accordance with the approved soils report.</i>		Y
			<i>Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill</i>		Y
			X		Y
				X	N
3.	Controlled Structural Fill	2	<i>Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material.</i>		Y
			X		Y
4.	Deep Foundations	1 (R)	<i>Inspect installation of drilled pier foundations. Verify pier diameter, bell diameter, lengths, embedment into tuff and suitability of end bearing strata.</i>		Y
5.	Other:				

Note:

- Footing and foundation inspections shall be made after excavations for footings are complete and any required reinforcing steel is in place. For concrete foundations, any required forms shall be in place prior to inspection. Materials for the foundation shall be on the job, except where concrete is ready mixed in accordance with ASTM C 94, the concrete need not be on the job.

Key to Monitoring and Hold Points

***Monitoring:**

Continuous - Full-time observation of work by approved special inspector who is present in area where the work is being done;

Periodic – Part-time/intermittent observation by approved special inspector who is present in the area where the work has been or is being performed and at the completion of the work.

****Hold Point:**

A mandatory inspection point beyond which work shall not proceed until the constructor’s (e.g., Subcontractor’s) QC representative has conducted the inspection and documented that the inspection results are acceptable and has obtained a sign-off by the above noted agency for that particular item. Do not cover items with other work until inspection is completed. Hold Points occur at significant junctures during the project to provide an opportunity for LANL or its representatives (at its option) to witness, review, or conduct additional inspections or tests for hold point activities. Hold points do not relieve the constructor (e.g., Subcontractor) from its obligation to meet requirements, including acceptance testing and/or inspections cited in project specifications. The constructor (e.g., Subcontractor) shall notify the LBO 48 hours prior to reaching a hold point. Delays, damages or time extensions will not be allowed if the Subcontractor fails to make this notification.

Cast-in-Place Concrete

Item	Agency # (Qualif.)	Scope	Monitoring*		Hold** Point	
			Continuous	Periodic		
1.	Mix Design	1 (C/CS/CC)	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.		X	N
2.	Material Certifications	1 (C/CS/CC)	Review certified mill test reports and identification markings on reinforcing bars. The special inspector shall determine conformance with construction documents. Applicable ASTM material specification.		X	N
3.	Reinforcement installation	1 (C/CS/CC)	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters		X	N
4.	Post-Tensioning Operations	1 (CCS/CC)	N/A			
5.	Welding of Reinforcing	1 (HW)	Welding of reinforcing is not allowed. (1)	X (1)		Y (1)
6.	Anchor Rods	1 (C/CS/CC)	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.	X		Y
7.	Concrete Placement	1 (C/CS/CC)	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.	X		Y
8.	Sampling and Testing of Concrete	3	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).	X		N
9.	Curing and protection	1 (C/CS/CC)	Inspect curing, cold weather protection and hot weather protection procedures.		X	N
10.	Other:					

Notes:

- Concrete slab and under-floor inspections shall be made after in-slab or under-floor reinforcing steel and building service equipment, conduit, piping accessories and other ancillary equipment items are in place, but before any concrete is placed or floor sheathing installed, including the subfloor.
- (1) Only at the direction of the Engineer of Record and owner and in accordance with AWS D1.4 and LANL ESM Chapter 13 – Welding.

Precast Concrete

Page of

Item	Agency # (Qualif.)	Scope	Monitoring*		Hold** Point
			Continuous	Periodic	
1. Plant Certification / Quality Control Procedures <input type="checkbox"/> Fabricator Exempt	1 (C/CC)	Review plant operations and quality control procedures.		X	N
2. Mix Design	1 (C/CC)	Inspect concrete batching operations and verify compliance with approved mix design		X	N
3. Material Certification	1 (C/CC)	Review certified mill test reports and identification markings on reinforcing bars. The special inspector shall determine conformance with construction documents. Applicable ASTM material specification.		X	N
4. Reinforcement Installation	1 (C/CC)	Inspect size, spacing, position and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials.	X		Y
5. Prestress Operations	1 (C/CC)	Inspect placement, stressing, grouting and protection of prestressing tendons	X		Y
6. Connections / Embedded Items	1 (C/CC)	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.	X		Y
7. Formwork Geometry	1 (C/CC)		X		Y
8. Concrete Placement	1 (C/CC)	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.	X		Y
9. Sampling and Testing of Concrete	3	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).	X		N
10. Curing and Protection	1 (C/CC)	Inspect curing, cold weather protection and hot weather protection procedures.	X		N
11. Erected Precast Elements	1 or 7 (C/CC) (PE/SE)	Inspect erection of precast concrete including member configuration, connections, welding and grouting.		X	N
12. Other:					

- Fabricator Exempt only on approval of LANL Building Official

Masonry

Required Inspection Level: 1 2 per IBC 1704.5

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Item	Agency # (Qualif.)	Scope	Monitoring*		Hold** Point	
			Continuous	Periodic		
1.	Material Certification	1 (B/BC)	Review plant operations and quality control procedures.		X	N
2.	Mixing of Mortar and Grout	1 (B/BC)	Inspect proportioning, mixing and retempering of mortar and grout.		X	Y
3.	Installation of Masonry	1 (B/BC)	Inspect size, layout, bonding, and placement of masonry units.		X	N
4.	Mortar Joints	1 (B/BC)	Inspect construction of mortar joints including tooling and filling of head joints.		X	N
5.	Reinforcement Installation	1 (B/BC)	Inspect placement, positioning and lapping of reinforcing steel. Inspect welding of reinforcing steel.	X	X	Y
6.	Prestressed Masonry	1 (B/BC)	Inspect placement, anchorage and stressing of prestressing bars.		X	Y
7.	Grouting Operations	1 (B/BC)	Inspect placement and consolidation of grout. Inspect masonry clean-outs for high-lift grouting.		X	Y
8.	Weather Protection	1 (B/BC)	Inspect cold weather protection and hot weather protection procedures. Verify that wall cavities are protected against precipitation.		X	N
9.	Evaluation of Masonry Strength	4	Test compressive strength of mortar and grout cube samples (ASTM C780). Test compressive strength of masonry prisms (ASTM C1314).		X	N
10.	Anchors and Ties	1 (B/BC)	Inspect size, location, spacing and embedment of dowels, anchors and ties.		X	N
11.	Other:					

Structural Steel

Item	Agency # (Qualif.)	Scope	Monitoring*		Hold** Point		
			Continuous	Periodic			
1.	Fabricator Certification/ Quality Control Procedures <input checked="" type="checkbox"/>	1 (A/S)	Review shop fabrication and quality control procedures (including welding, by LANL Welding Program POC).		X	N	
2.	Material Certification	1 (A/S)	Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts and welding electrodes. Applicable ASTM material specification.		X	N	
3.	Bolting	1 (S/SB)	Inspect installation and tightening of high-strength bolts in accordance with AISC LRFD Section M2.5. Verify proper tightening sequence.		X	Y	
4.	Welding	1 (S/SW/HW)	Visually inspect all welds. Welding inspection shall be in compliance with AWS D1.1 or D1.3 as appropriate. Verify size and length of fillet welds. Inspect fit-up, pre-heat, post-heat and surface preparation between passes in accordance with table at right. Verify specified NDT testing of all partial and full-penetration welds in accordance with the project specifications.	Complete and partial groove welds	X	Y	
				Multi-pass fillet weld	X	N	
				Single pass fillet weld > 5/16"	X	N	
				Single pass fillet weld ≤ 5/16"		X	N
				Floor and Deck Welds		X	N
5.	Structural Details	1 (A/S/SB)	Inspect steel frame for compliance with structural drawings, including bracing, member configuration and connection details.		X	N	
6.	Metal Deck	1 (A/S/SW/HW)	Inspect welding and side-lap fastening of metal roof and floor deck.		X	N	
7.	Seismic Load-Resisting Framing	1 (A/S/SW/HW)	Continuous Special Inspection for structural welding of the Ordinary Concentric Braced Frame elements and connections accordance with AISC 341, Section Q.5. Flare groove bevel welds shall be have NDT Magnetic Particle Testing in addition to visual.		X	Y	

Notes:

- Fabricator Exempt only on approval of LANL Building Official;
- Framing inspections shall be made after the roof deck or sheathing, all framing, fireblocking and bracing are in place and pipes, chimneys and vents to be concealed are complete and the rough electrical, plumbing, heating wires, pipes and ducts are approved.
- Ensure design drawings (or spec) address which joints are bearing, pretensioned, or slip-critical – and whether bolting must be snug-tight, torqued (and what torque), load-indicating, or turn-of-the-nut (match mark method allows periodic versus continuous).

Cold-Formed Steel Framing

Item	Agency # (Qualif.)	Scope	Monitoring*		Hold** Point
			Continuous	Periodic	
1. Member Sizes	1 (A/S/SO)	Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts, welding electrodes and concrete anchors. Applicable ASTM material specification.		X	Y
2. Material Thickness	1 (A/S/SO)	Review material identifications that shapes are as indicted in the project drawing and/or specifications.		X	N
3. Material Properties	1 (A/S/SO)	Review material certifications and identification markings for compliance with project drawings and/or specifications. Applicable ASTM material specification		X	N
4. Mechanical Connections	1 (A/S/SO)	Periodic special inspections for screw attachment, bolting, anchoring, and other fastening of components within the seismic-force-resisting system, including struts, braces, and hold-downs.		X	N
5. Welding	1 (A/S/SW/HW)	Inspection of all field connection including anchorage to structural frame. Ref. Spec Section 01 4455.		X	Y
6. Framing Details	1 (A/S/SO)	Inspection of framing and details.		X	N
7. Other: N/A					

Exterior Insulation & Finish Systems

Item	Agency # (Qualif.)	Scope	Monitoring*		Hold** Point
			Continuous	Periodic	
1. Flashing and Joint Details	1 (I)	<i>Inspection of Flashing and joint details for compliance with details and specifications.</i>		X	Y
2. Sealants and Caulks	1 (I)	<i>Inspection of seals for compliance with details and specifications.</i>		X	Y
3. Other: N/A					

Mechanical & Electrical Systems

Item	Agency # (Qualif.)	Scope	Monitoring*		Hold** Point	
			Continuous	Periodic		
1.	Motorized Isolation Damper	TBD	Special inspection during installation for compliance with manufacturer installation instructions and recommendations.		X	N
2.	HVAC	1 (M/MM)	Special inspection during the installation of HVAC ductwork that will contain hazardous materials. Verify HVAC ductwork is sized, routed and supported (including sway restraints) per the drawings and specifications.		X	N
3.	Piping	1 (M/MM)	Special inspection during installation for flammable, combustible, or highly toxic piping systems and their associated mechanical units. Verify piping is sized, routed, sloped and supported (including sway restraints) per the drawings and specifications. Verify associated mechanical units are located, anchored, supported and aligned (as applicable) per the drawings and specifications.		X	N
		1 (M/MW)	Verify welding during installation for flammable, combustible, or highly toxic piping systems and their associated mechanical units is being performed in accordance with applicable code (ASME B31.1, B31.3 and B31.9). Perform periodic inspection of in-process fit-up, pre-heat, surface preparation between passes and post-heat. Perform final inspection of all welds.		X	N
		1 (M/MM)	Verify piping which will contain flammable, combustible or highly toxic materials is leak tested in accordance with the project specification		X	Y
		1 (M/MP)	Verify chlorination of potable water piping in accordance with project specification		X	Y
4.	Electrical System	1 (E)	Special inspection during the installation of anchorage, of Fire Detection and Alarm, and Lightning Protection Systems.		X	N
5.	Other: N/A					

Notes:

- Special Inspection shall be conducted during erection of ductwork and prior to concealment for the purposes of leakage testing and recording of device location.
- Special Inspection shall be conducted prior to occupancy and after sufficient completion for the purposes of pressure-difference testing, flow measurements, and detection and control verification.

Architectural Systems

Item	Agency # (Qualif.)	Scope	Monitoring*		Hold** Point
			Continuous	Periodic	
1. Wall Panels	1 (I/L)	Special inspection during the erection and fastening of exterior cladding and exterior and interior non-load bearing walls.		X	N
2. Exterior Doors	1 (I)	Special inspection during the installation of the exterior doors. Verify that door is plumb, straight and true and compliance with project specification		X	N
3. Fire Assemblies	1 (I/L)	Special inspection during the erection and fastening of exterior cladding.		X	N
4. Other: N/A					

Notes:

- Protection of joints and penetrations in fire-resistance-rated assemblies shall not be concealed from view until inspected and approved.
- Lath and gypsum board inspections shall be made after lathing and gypsum board, interior and exterior, is in place, but before any plastering is applied or gypsum board joints and fasteners are taped and finished.
Exception: Gypsum board that is not part of a fire-resistance-rated assembly or a shear assembly.

Special Cases

Item	Agency # (Qualif.)	Scope	Monitoring*		Hold** Point		
			Continuous	Periodic			
1.	Designated Seismic System Components	LBO	<i>Evidence of Compliance for seismic resistance by shake table testing, three dimensional analysis or use of experience data.</i>			X	Y
2.	Post-installed anchors	1 (HA/HE/HU)	<i>Perform special inspections of structural post-installed anchors in accordance with the ICC ESR report for the anchor being installed.</i>			X	Y
			<i>Verify approved anchors are used for non-structural post-installed anchor applications</i>				X
3.	Fire seals	1 (FP)	<i>Verify fire seals are installed in accordance with a UL/FM approved through-penetration firestop system that provides the same fire rating as the wall being penetrated.</i>			X	Y
4.	Other: N/A						

Instructions – Preparation of the Test and Inspection Plan

1. Who Prepares the Plan:
The program of inspection and testing for a project shall be prepared by the Design Professional in Responsible Charge (DPIRC) that is in responsible charge of the building system requiring inspections and testing. The Structural Engineer of Record (SER) should prepare the sections required for the structural elements such as foundations, concrete, structural steel, etc. The Architect and MEP Engineers of Record should prepare the corresponding sections of the TIP for the building systems that they are responsible for, etc. For further explanation, refer to LANL ESM Chapter 16, Section IBC-IP.
2. The Front Page:
 - 2-1. At the top of the page indicate the project name and location as they appear on the Contract Documents, and indicate the Design Professional in Responsible Charge. This should be the DPIRC in responsible charge of the building systems for which this TIP is being prepared. See explanation in item 1 above.
 - 2-2. Next, read the first paragraph and check the box below indicating the discipline(s) that this TIP will encompass (Structural, Architectural, Mechanical/Electrical/ Plumbing, or Other).
 - 2-3. Near the bottom of the page, the DPIRC must print, sign, and date the form, and stamp the form with their professional seal in the box provided.
 - 2-4. LANL must sign and date the front page after the TIP has been completed by the DPIRC.
 - 2-5. LANL must sign and date the form upon acceptance.
3. Page 2 – Schedule of Inspection and Testing Agencies:
 - 3-1. The top of the page lists all of the categories of building systems with a box next to each. The DPIRC must check the boxes for only the building systems that are going to be covered in this TIP. A completed inspection program page must be attached for each building system that is checked off. (See instruction #5 below.)
4. Page 3 – Seismic and wind resisting systems Statement of Responsibility:
 - 4-1. The DPIRC must review sections 1705 and 1706 in Chapter 17 of the IBC to determine if the project requires a Statement of Responsibility from the Subcontractor for the seismic force and wind force resisting systems and components. See also ESM Ch 5, Structural.
 - 4-2. The DPIRC must indicate whether or not a Statement of Responsibility is required by filling in the information requested on the page. It is only necessary to provide descriptions of the seismic and wind force resisting systems if it is determined that a Statement of Responsibility is required.
5. Inspection Program Pages for Each Building System:
 - 5-1. There is a page attached for each building system where the DPIRC identifies the inspection requirements of each system. Fill out the pages for only the building systems included in this TIP. Do not include blank pages for building systems not covered under this TIP.
 - 5-2. Indicate the agency to perform the inspection and the suggested qualifications of the Inspector for each inspection. A list of qualifications of Inspectors and testing technicians is provided on page 4 of the TIP for reference. LANL will employ individuals with the specified qualifications for special inspections.
 - 5-3. The scope of each inspection must be filled in by the DPIRC. The editable text provided in italics reflects the code mandated minimum inspection requirements designated in Section 1704 of IBC Chapter 17. The editable text does not include the inspections requirements for seismic and wind resisting systems listed in Sections 1705 through 1708. The DPIRC must determine if the project falls under the requirements of Sections 1705 to 1708 and add the required inspections to the building systems. The final scope of the inspections required for the project must be determined by the DPIRC **but shall not be less than those required by IBC Chapter 17.**
 - 5-4. Descriptions of all inspections must include the required frequency of each inspection or test (continuous, periodic).
 - 5-5. Notes of clarification may be included below the relevant building systems table.