



CALIFORNIA COUNCIL OF TESTING AND INSPECTION AGENCIES

**Meeting Agenda
November 15, 2007
Four Points Sheraton Hotel
5115 Hopyard Road
Pleasanton, CA 94588**

General Business Meeting

1. Call to Order – Elizabeth Levi
 - a. Time – 3:14 pm
 - b. Self-introductions

*Terry Egland (Testing Engineers)
Bill Cale (Construction Materials Testing)
Dave Chippero (Terrasearch)
Jeffry Cannon (Kleinfelder)
Jim Auser (ENGE0)
Dan Cherrier (BSK Associates)
Robb Wood (BSK Associates)
Greg Ruf (Krazan)
Osama El-Fiky (Condor Earth Tech.)*

*Cliff Craig (Dynamic Consultants, Inc.)
Mike Parker (Testing Engineers)
Bob Joakimson (Ninyo & Moore)
Will Wahbeh (Signet)
Ross Esfandiari (RES Engineers)
Dan Inferrera (Kleinfelder)
Denise Corkill (Kleinfelder)
Elizabeth Levi (BSK Associates)
Miki Craig (Dynamic Consultants, Inc.)*

2. Approval of Minutes
 - a. October 26, 2007

Item 2.g. – “Form 105” was corrected to read “Form 150”. The minutes were approved as corrected.

3. Financial Report
 - a. As of October 2007

The Council currently has \$20,202.65 in the bank. This does not include income from the November 10th training program and initial ABM reservations. Invoices for 2008 dues will go out around Dec 1st. ASFE RO membership costs for 2008 appear to be funded at this time.

4. Committee Reports
 - a. ICC/Local Jurisdictions – Miki Craig
 - i. ICC Soils Special Inspector Exam – Jeff Cannon

The committee completed preparation of the exam about 2 weeks ago. It covers only soils (i.e., mass grading, compacting of backfill and trenches). It does not contain anything about foundations. The exam is due to be on line in late March 2008. It will cover all basic code type questions and then go into details from either an example geotechnical report and/or geotechnical specification (undecided which one at this time). Plans have been obtained from two projects facilitating plan reading questions. Areas covered will include soil classification, lab testing (that field techs should know about – Proctor, gradation, compaction, moisture), site preparation, stripping, grubbing, trenching, keyways, fill monitor and testing (nuclear and sand cone). Reference materials for the exam include standard ASTM test procedures, the building code, and a manual from ASCE Press (currently under



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revision) entitled “Geotechnical Testing, Observation, and Documentation” by Tim Davis. The new revision of this book is due out after the exam goes on line. Appendix J in the building code has supplied a lot of questions to do with grading.

Dan Cherrier asked if CEGA supported this effort by ICC. Jeff Cannon indicated that initially they did not, but they seem to be coming around, at least they are not opposing it even though they are not publicly supportive. DSA has shown considerable interest in this certification.

ii. Passing of Vern Peterson, ICC Secretariat for ICC’s Certification Committee

Cliff Craig shared his sorrow at the loss of a gentleman who had a significant impact on the ICC certification program, and was very supportive of CCTIA’s needs and concerns. Vern was an excellent facilitator that kept hot tempers in check and encouraged forward momentum for the benefit of the program. Cliff will provide an article for the CCTIA newsletter.

iii. Coalition Program Due Date – 11/30/07 (for firms operating in the San Francisco Greater Bay Area)

Terry Eglund inquired if anyone had submitted to less than the 7 cities participating in the joint program. D&M submitted to San Jose because Capitola said it was accepting only those firms on San Jose’s approved list, but James Sun would not accept a “city only” application. D&M would have to submit to all of the participating jurisdictions of the coalition. Will Wahbeh again stressed the industry’s concerns regarding the lack of transparency in the program. Miki Craig will contact James Sun on behalf of the membership to inquire how firms not wishing to participate in the coalition program should apply to City of San Jose. If she gets the same response as D&M, the matter shall be referred to the CCTIA Board of Directors so a letter of protest may be issued to the City.

b. ASTM – Jeff Cannon

There have been a number of ballot items before the E36 Committee relating to accreditations and certification. Jeff Cannon will be attending the next meeting being held in Florida. There have been attempts to insert names of publications in lieu of organizational names and state agencies. The intent is that testing labs must comply with accreditation/certification requirements referenced in those publications. There were lots of negative ballots, so there will be further discussion of this attempt to make an end run on the ruling by ASTM that specific programs cannot be referenced in the standards.

c. SEAONC CQA – Ross Esfandiari

The first draft of the committee’s “Statement of Special Inspections” (attached) was distributed. It is based on the CASE document, ICC’s Model Program document, and other discussions with interested parties. The committee wants to submit this very shortly to select Building Departments for comment. Additionally, they are requesting comment from CCTIA before they go to the building officials. Terry Eglund will compile member comments prior to the December 4th meeting, but



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requested they be submitted no later than November 21st. Dan Cherrier suggested we take a look at what other states that adopted the IBC many years ago have been doing to see what has been working. This item is only a small part of the total guideline overall publication and should be a good starting block for the new code. Publication is expected to be in late March 2008.

d. DSA – Dan Cherrier

Carrying over from last month's San Diego meeting, Dan Cherrier asked if the attendees at this meeting support the idea of DSA requiring earthwork testing being done only by LEA agencies. The SoCal meeting clearly showed the majority of attendees preferred an LEA requirement in order to establish a level playing field. Attendees of this meeting support that vote.

CCTIA's efforts to deal with inconsistency and enforcement issues appear to be stagnated with Eric France at DSA. It was recommended we attempt to move further up the administrative hierarchy. Dan Cherrier was asked to contact David Thorman (State Architect) to schedule a meeting with industry in February or March in the Bay Area (near an airport that Southwest flies into).

ASFE is looking for specifics on the issues we presented to them. CCTIA needs to prepare a letter to identify our concerns, give specific details, and possible avenues of action they might take on our behalf.

A member indicated DSA Field Engineer Mike Fritz is rejecting finals not prepared on the new verified forms (regardless of when the project was constructed). Our understanding from Eric France is that they must be used on any project that began on or after the revision date of the form, August 6, 2006. There was discussion about concerns that there is no place to note exceptions on the form, and that it cannot be altered to accommodate that need. Attending Responsible Engineers shared how they are handling these documents and non-compliant issues.

The DSA T & I Sheet typically indicates that aggregate testing shall be provided "at discretion of lab". Cliff Craig commented that he is handling this item as waived at lab's discretion, but wanted to know how others were handling it. Cliff indicated he feels obligated to address every item on the T&I with these new forms, and includes a comment in each non-compliance attachment that he did not review all the DSA approved documents to identify all testing requirements.

e. ACI – Cliff Craig

The NCAWNV Chapter is trying to produce more programs for Strength Tester as well as Lab Tech 1 & 2. ACI National is trying to rewrite the program to eliminate the overlap between exams, which it hopes to have ready by January. As a part of this process, there will be an Aggregate Tester 1 and 2, and a Field Aggregate Tester program.

As ASTM removes references to specific certification programs, industry is currently not able to offer a good avenue for evaluating other programs that may be equivalent to ACI's offerings. Jeff Cannon commented there is an ASTM committee attempting to draft a standard addressing this.



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A recent ADA complaint caused the NCAWNV Chapter to be subpoenaed to testify on exam procedures. As a result, the protocol has been established that if participant is not able to perform the practical exam on the day he/she is scheduled, let the Chapter know and it will reschedule for a later date, but the participant must be able to perform the required practical test components in order to obtain certification. If an applicant is permanently disabled, contact ACI National for accommodation arrangements.

f. Membership – Mike Parker/Jim Backman

Application packages have been mailed to interested firms from the San Diego meeting.

Geotek has not been audited at this time.

g. Code Adoption/IBC – Dan Cherrier

No new activity to report. Dan Cherrier recommended again that industry go enmass to the CBSC meetings to address our concerns as this would carry more weight. He also reminded the members that we may present code change proposals directly to the committee.

h. Newsletter – Mike Parker

Articles for the next issue are due the first week of December for publication near end of December. This issue will include extensive information on planned ABM activities.

i. Internal Auditing – Terry Eglund

No action at this time.

j. ASFE RO – Rick Van Horn/Jeff Cannon

The Fall 2008 meeting will be held in San Francisco (sometime in October). ASFE is requesting topics for how they may be of assistance to CCTIA.

k. Standard of Practice – Miki Craig

No action at this time.

l. Education – Greg Ruf

President Levi thanked Jeff Cannon, Greg Ruf, and Miki Craig for their efforts to put on the November 10th program. There were 17 attendees, and the program appeared to be well received. Greg explained the target was to bring a new level of education to special inspectors that was more appropriate to their interests and directly focused on their assigned duties. The committee is hoping



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to provide a new level of understanding to the inspector, so he can better comprehend his responsibilities.

Greg Ruf provided a Soils 101 type program targeted to those who have only been through the nuclear gauge safety program, and have had no direct training in soils. He also provided a review of what a soils report is, and how to read it.

Both speakers (Greg Ruf and Jeff Cannon) waived their fee for this program. Some critiques offered by members in attendance included:

- 1) room was too cold*
- 2) some steel inspectors didn't care about the soils portion, so were bored*
- 3) no handouts were given*

Greg indicated it is difficult to fill a class on one topic only, but if there is a need, we should address it. Some attendees were taking notes, others were typing directly into computers. Greg expressed his concerns that handouts are distracting – it is better this way. It was suggested that some form of handout at the end of the program might work.

The overall consensus was the program was a great start. It was also suggested the announcements should contain the subject matter for the day. Jeff concurred, but indicated they did not know in advance with the November program. It is the intention to keep the modules flexible so that we can avoid duplicating topics. As required by ICC, a database of attendees will be prepared, and certificates issued upon confirmation of payment.

The next class is scheduled for mid-January in the Sacramento area. It is already full, and the committee is looking for space. We need to address providing a program in SoCal as soon as possible as well.

m. FAQ's – Terry Egland/Will Wahbeh

Two recent FAQ's have been posted to the website. Terry and Will are working on a couple others. Terry is going to try submitting to the entire membership to see if we can get a broader aspect of answers.

There are 21 FAQ's currently on the CCTIA website; 3 have been published in SEAONC's newsletter; and 10 have been published in CCTIA's newsletter.

The NCAWNV Chapter of ACI has set up an "Ask the Industry" program. Terry asked if CCTIA could find out how they are going to centralize the responses so we can see them? Cliff Craig will contact the NCAWNV Chapter regarding this issue.

n. Pins & Honors – William Wahbeh/Mike Parker

No action to report.

o. Website – Miki Craig



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Miki Craig apologized for the website recently being down a day or so. We were relocated to a new server without being notified. Miki has rebuilt the site, repaired the necessary links and everything should be working properly at this time.

5. Old Business

a. Nominations for 2008 Officers and Directors

President Levi encouraged all members to feel free to express their interest in holding office. Currently, nominations have been accepted for President and Secretary/Treasurer. The Nominating Committee is still seeking candidates for Vice President and one Board position. Ballots will be mailed as soon as the search has been successfully completed.

b. 2008 ABM

Registration deadline is December 28, 2007. Forms have been emailed and snail mailed; they are also available for download from the CCTIA website. If you haven't reserved your hotel room, or are having difficulty getting one, please call President Levi for assistance.

President Levi is also requesting recommendations for guest speaker for the ABM. Please contact her with your suggestions.

c. Defective Tube Steel Issue

Terrasearch ran a load testing program on one, consisting of an initial download of 120,000 lbs, then an uplift to 15,000 lbs. The specimen had many identifiable defects under UT and MT testing, but the seam weld performed well under load testing. The project Structural Engineer spec'd out the UT and MT procedures, as well as the load testing protocols. AWS D1.1 does not identify or address these types of welds, so creation of UT/MT procedure is difficult to establish. Communication between testing agencies to identify what works and what is inappropriate would be beneficial. One agency in attendance indicated they were attempting to obtain approval for drilling a small hole in potentially questionable weld areas to facilitate visual inspection, provided it would not structurally impair the member.

AISC is looking for information from any independent lab that has tested this material, as is DSA.

6. New Business

a. SEAONC's Luncheon Meeting – November 15th

The guest speaker was the new Chief Building Official of the City of San Francisco. Word has it he is taking a stance on preventing Structural Engineers from providing special inspections. It was remarked that he might be a good guest speaker for a future meeting.

b. Laboratory Testing of High Strength Bolts



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General Discussion – An attending agency has had DSA reject the submittal of mill certs for HSB's in lieu of hardness testing. The building code does not define which tests should be conducted, nor does the T&I sheet specify the tests. Basically, it is up to the testing agency, but DSA will not accept a waiver of testing. In the case of the project in question, construction has been completed for some time, and the testing agency cannot go back to obtain samples and perform tests. The agency is asking for any suggestions the membership may have as to how they might proceed to resolve this issue.

Another attendee mentioned there some HSB's failing hardness tests. They have been identified as being provided from Cincinnati and St. Louis firms, and there is no indication that the bolts might have been of foreign manufacture. It was noted that this type of information is vital to our industry, and should be shared at every opportunity.

7. Adjournment

- a. Time – 5:38 p.m.
- b. Next meeting – December 13, 2007, 3:00 p.m., Four Points Sheraton, Pleasanton

Respectfully submitted,
Miki Craig
Past President/Acting Secretary

Statement of Special Inspections

Project:

Location:

Owner:

Design Professional in Responsible Charge:

This Statement of Special Inspections is submitted in fulfillment of the requirements of CBC Sections 1704 and 1705. Included are:

- Schedule of Special Inspections applicable to this project:
 - Special Inspections per Sections 1704 and 1705
 - Special inspections for Seismic Resistance
 - Special inspections for Wind Resistance
- List of the Testing Agencies and other special inspectors that will be retained to conduct the tests and inspections.

Special Inspections and Testing will be performed in accordance with the approved plans and specifications, this program and CBC sections 1704, 1705, 1707, and 1708.

The Schedule of Special Inspections summarizes the Special Inspections required by the Building Code. Special Inspectors will refer to the approved plans and specifications for detailed special inspection requirements. The project inspectors will also perform any additional tests and inspections required by the approved plans and specifications.

Interim reports will be submitted to the Building Official and the Registered Design Professional in Responsible Charge in accordance with CBC Section 1704.1.2

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 prior to issuance of a Certificate of Use and Occupancy. Final report will document:

- Required special inspections.
- Correction of discrepancies noted in inspections.

The Contractor is required to sign and submit a written statement of responsibility that complies with CBC Section 1706, to the Building Official and to the Owner prior to commencement of work subject to special inspection.

The Owner recognizes his obligation to ensure that the construction complies with the approved permit documents and to implement this program of special inspections. In partial fulfillment of these obligations the Owner will retain and directly pay for the Special Inspections as required in CBC Section 1704.1.

This plan has been developed with the understanding that the Building Official will:

- Review and approve the qualifications of the Special Inspectors who will perform the inspections.
- Monitor special inspection activities on the job site to assure that the special inspectors are qualified and are performing their duties as called for in this Statement of Special Inspection.
- Review submitted inspection reports.
- Perform inspections as required by the local building code.

Prepared by:

(type or print name)

Signature

Date

Owner's Authorization:

Building Official's Acceptance:

Signature

Date

Signature

Date

Schedule of Special Inspection

Verification and Inspection.	C.	P	Notes
1704.2:- Inspect fabricators {List or otherwise designate			<i>Designate what items are subject to special inspection when shop fabricated.</i>
1704.2.1			
Table 1704.3 - Steel			
1. Material verification of high-strength bolts, nuts, and washers.			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.		X	
b. Manufacturer's certificate of compliance required.		X	
2. Inspection of high-strength bolting:			
a. Bearing type connections.		X	
b. Slip-critical connections	X	X	
3. Material verification of Structural Steel:			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.			
b. Manufacturer's mill test reports			
4. Material verification of weld filler materials:			
a. Identification markings to conform to AWS specification in the approved construction documents listed in the WPS.			
b. Manufacturer's certificate of compliance required.			
5. Inspection of welding:			
a. Structural Steel			
1) Complete and partial penetration groove welds.	X		
2) Multipass fillet welds	X		
3) Single-pass fillet welds > 5/16"	X		
4) Single-pass fillet welds ≤ 5/16"		X	
5) Floor and roof deck welds.		X	
b. Reinforcing Steel			
1) Verification of weldability of reinforcing steel other than ASTM A 706.		X	
2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls, and shear reinforcement.	X		
3) Shear reinforcement.	X		
4) Other reinforcing steel		X	
6. Inspection of steel frame joint details for compliance with approved construction documents:		X	
a. Details such as bracing and stiffening.			
b. Member locations.			
c. Application of joint details at each connection.			

Verification and Inspection.	C.	P	Notes
1704.3- Welded studs when used for structural diaphragm		X	
1704.3- Welding of cold-formed sheet steel framing members.		X	
1704.3- Welding of stairs and railing systems		X	
Table 1704.4 - Concrete			
1. Inspection of reinforcing steel, including prestressing tendons and placement		X	
2. Inspection of reinforcing steel welding in accordance with Table 1704.3 Item 5b			
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased.	X		
4. Verifying use of required design mix.		X	
5. At time of fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.	X		
6. Inspection of concrete and shotcrete placement for proper application techniques.	X		
7. Inspection for maintenance of specified curing temperature and techniques.		X	
8. Inspection of prestressed concrete a. Application of prestressing forces b. Grouting of Bonded prestressing Tendons in the Seismic-force-resisting system	X X		
9. Erection of precast concrete members.		X	
10. Verification of in-situ concrete strength, prior to stressing of tendons in postensioned concrete and prior to removal of shores and forms from beams and structural slabs.		X	
11. Inspect formwork for shape, location and dimensions of the concrete member being formed.		X	
1704.4.1 States that weldability of reinforcing steel other than A706 material shall have its weldability determined in accordance with Section 3.5.2 of ACI 318.			
Table 1704.5.1 - Level 1 Masonry Inspections.			
1. At the start of masonry construction verify the following to ensure compliance.			
a. Proportions of site-prepared mortar.		X	
b. Construction of mortar joints.		X	
c. Location of reinforcement, connectors, prestressing tendons and anchorages.		X	
d. Prestressing technique.		X	
e. Grade and size of prestressing tendons and anchorages.		X	
2. Verify.			
a. Size and location of structural elements.		X	
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.		X	

Verification and Inspection.	C.	P	Notes
c. Specified size, grade and type of reinforcement.		X	
d. Welding of reinforcing bars.	X		
e. Protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F)		X	
f. Application and measurement of prestressing force.		X	
3. Prior to grouting verify the following to verify compliance.			
a. Grout space is clean.		X	
b. Placement of reinforcement and connectors and prestressing tendons and anchorages.		X	
c. Proportions of site-prepared grout and prestressing grout for bonded tendons.		X	
d. Construction of mortar joints.		X	
4. Verify grout placement to ensure compliance with code and construction document provisions.	X		
a. Observe grouting of prestressing bonded tendons.	X		
5. Observe preparation of required grout specimens, mortar specimens and/or prisms.	X		
6. Verify compliance with required inspection provisions of the construction documents and the approved submittals.		X	
Table 1704.5.3 - Level 2 Masonry Inspections			
1. From the beginning of masonry construction the following shall be verified to ensure compliance:			
a. Proportions of site-prepared mortar, grout and prestressing grout for bonded tendons.		X	
b. Placement of Masonry units and construction of mortar joints.		X	
c. Placement of reinforcement, connectors and prestressing tendons and anchorages.		X	
d. Grout space prior to grouting.	X		
e. Placement of grout.	X		
f. Placement of prestressing grout.	X		
2. Verify:			
a. Size and location of structural elements.		X	
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames and other construction.	X		
c. Specified size, grade and type of reinforcement.		X	
d. Welding of reinforcing bars.	X		
e. Protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F)		X	
f. Application and measurement of prestressing force.	X		

Verification and Inspection.	C.	P	Notes
3. Preparation of any required grout specimens, mortar specimens, and/or prisms shall be observed.	X		
4. Compliance with required provisions of construction documents and the approved submittals shall be verified.		X	
1704.6: -Special inspection required for pre fabricated wood structural elements and assemblies shall be in accordance with Section 1704.2			
1704.6:- Site built assemblies shall be subject to special inspection in accordance with Section 1704.6			
1704.6.1: Inspect high-load diaphragms : 1. Verify grade and thickness of sheathing. 2. Verify nominal size of framing members at adjoining panel edges. 3. Verify nail or staple diameter and length, the number of fastener lines and that the spacing between fasteners in each line and at edge margins agrees with the construction documents.			<i>Designate these diaphragms on the drawings</i>
Table 1704.7 - Inspection of Soils			
1. Verify materials below footings are adequate to achieve the desired bearing capacity.		X	<i>Not typically part of the SEOR's scope of work.</i>
2. Verify excavations are extended to proper depth and have reached proper material.		X	<i>Not typically part of the SEOR's scope of work.</i>
3. Perform classification and testing of controlled fill materials.		X	<i>Not typically part of the SEOR's scope of work.</i>
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of controlled fill.	X		<i>Not typically part of the SEOR's scope of work.</i>
5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.		X	<i>Not typically part of the SEOR's scope of work.</i>
Table 1704.8 - Pile Foundations			
1. Verify pile materials, sizes and lengths comply with the requirements.	X		<i>May be SEOR or Geotechnical Engineer.</i>
2. Determine capacities of test piles and conduct additional load tests, as required.	X		<i>Not typically part of the SEOR's scope of work.</i>
3. Observe driving operations and maintain complete and accurate records for each pile.	X		<i>Not typically part of the SEOR's scope of work.</i>
4. Verify locations of piles and their plumbness. a. Confirm type and size of hammer. b. Record number of blows per foot of penetration. c. Determine required penetrations to achieve design capacity. d. Record tip and but elevations and record any pile damage.	X		<i>Not typically part of the SEOR's scope of work.</i>
5. For steel piles, perform additional inspections in accordance with Section 1704.3.			

Verification and Inspection.	C.	P	Notes
6. For concrete piles and concrete-filled piles, perform additional inspection in accordance with Section 1704.4			
7. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.			<i>Not typically part of the SEOR's scope of work.</i>
8. For augered uncased piles and caisson piles, perform inspections in accordance with Section 1704.9.			<i>Not typically part of the SEOR's scope of work.</i>
Table 1704.9 - Pier Foundations			
1. Observe drilling operations and maintain complete and accurate records for each pier.	X		<i>Not typically part of the SEOR's scope of work.</i>
2. Verify locations of piers and their plumbness. Confirm pier diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end strata bearing capacity.	X		<i>Parts of this item are not typically part of the SEOR's scope of work.</i>
1704.10- Sprayed fire-resistant materials			<i>Not typically part of the SEOR's scope of work.</i>
1704.11- Mastic and intumescant fire-resistant coating			<i>Not typically part of the SEOR's scope of work.</i>
1704.12- Exterior insulation and finish systems (EIFS):-			<i>Not typically part of the SEOR's scope of work.</i>
1704.14- Smoke Control System			<i>Not typically part of the SEOR's scope of work.</i>
1705.3: Seismic Resistance.			
1705.3 [2]:-Designated seismic systems:			<i>Not typically part of the SEOR's scope of work.</i>
1705.3 [3.1]:-Heating, ventilating and air-conditioning (HVAC) ductwork containing hazardous materials and anchorage of such ductwork.			<i>Not typically part of the SEOR's scope of work.</i>
1705.3 [3.2]:-Piping systems and mechanical units containing flammable, combustible or highly toxic materials.			<i>Not typically part of the SEOR's scope of work.</i>
1705.3 [3.3]:- Anchorage of electrical equipment used for emergency or standby power systems.			<i>Not typically part of the SEOR's scope of work.</i>
1705.3 [4.2]:- Exterior wall panels and their anchorage.			<i>Not typically part of the SEOR's scope of work.</i>
1705.3 [4.3]:- Suspended ceiling systems and their anchorage.			<i>Not typically part of the SEOR's scope of work.</i>
1705.3 [4.4]:- Access floors and their anchorage.			<i>Not typically part of the SEOR's scope of work.</i>
1705.3 [4.5]:- Steel storage racks.			<i>Not typically part of the SEOR's scope of work.</i>
1705.3 [5.2]:- Electrical Equipment			<i>Not typically part of the SEOR's scope of work.</i>
1705.4 Wind Resistance			
1705.4.2			
1. Roof cladding and roof framing connections.			
2. Wall connections to roof and floor diaphragms and framing..			

Verification and Inspection.	C.	P	Notes
3. Roof and floor diaphragm systems, including collectors, drag struts and boundary elements			
4. Vertical windforce-resisting systems, including braced frames, moment frames and shear walls.			
5. Windforce-resisting system connections to the foundation.			
6. Fabrication and installation of systems or components required to meet the impact resistance requirements of Section 1609.1.2			<i>Not typically part of the SEOR's scope of work.</i>
Special Inspections for Seismic Resistance.			
1707.2:- Special inspection for welding in accordance with AISC 341.	X		
1707.3:- Structural Wood.			
1. Inspect field gluing operations of elements of the seismic-force-resisting system.	X		
2. Inspect nailing, bolting, anchoring, and other fastening of components within the seismic-force-resisting system, including wood shear walls, wood diaphragms, drag struts, braces , shear panels, and hold-downs.		X	
1707.4:- Cold-formed steel framing:			
1. Welding of elements of the seismic-force-resisting system.		X	
2. Inspection of screw attachments, bolting, anchoring and other fastening of components within the seismic-force-resisting system including struts, braces and hold-downs.		X	
1707.5: Pier Foundations			
1. Placement of Reinforcing		X	
2. Placement of Concrete	X		
1707.6:- Storage racks and access floors		X	<i>Not typically part of the SEOR's scope of work.</i>
1707.7: Architectural Components		X	<i>Not typically part of the SEOR's scope of work.</i>
1707.8: Mechanical and electrical components.		?? ?	<i>Not typically part of the SEOR's scope of work.</i>
1707.9: Designated seismic system verifications.			<i>Not typically part of the SEOR's scope of work.</i>
1707.10- Seismic Isolation System		X	<i>Edit requirements depending on the system selected.</i>
1708.1: Masonry			
1708.1.1- Verify certificates of compliance for <designated masonry> prior to construction.			
1708.1.2- Verification of f'm and f'aac prior to construction			
1708.1.2- Verification of f'm and f'aac every 5000 square feet during construction.		X	
1708.1.4- Verification of proportions of materials in mortar and grout as delivered to the site.			
1708.4- Structural Steel:- Invoke the QAP in AISC 341.			

Verification and Inspection.	C.	P	Notes
1708.6:- Seismically isolated structures <what does section 17.8 of ASCE 7 say>			

Notation:

X denotes either continuous or periodic inspections.

--- Denotes an activity that is either a one time activity or one whose frequency is defined in some other manner

Notes:

1. Additional detail regarding inspections and tests are provided in the project specifications or notes on the drawings.