



CALIFORNIA COUNCIL OF TESTING AND INSPECTION AGENCIES

August 20, 2009
Sheraton Pleasanton Hotel
5990 Stoneridge Mall Road
Pleasanton, CA 94588

Minutes - General Business Meeting

1. Call to Order – Mike Parker
 - a. Time
 - President Mike Parker called the meeting to order at 3:10 p.m.*
 - b. Self-introductions
 - The following members were in attendance:*

<i>John Byerly (John R. Byerly, Inc.)</i>	<i>Elizabeth Levi (BSK Associates)</i>
<i>Bill Cale (Construction Testing Services)</i>	<i>Michael Parker (Testing Engineers)</i>
<i>Cliff Craig (Dynamic Consultants)</i>	<i>Greg Ruf (Krazan & Associates)</i>
<i>Miki Craig (Dynamic Consultants)</i>	<i>Rick Toy (Kleinfelder)</i>
<i>Terry Eglund (Testing Engineers)</i>	<i>Rick Van Horn (Terracon)</i>
<i>Johan Jacobsen (Kleinfelder)</i>	
2. Approval of Minutes – Miki Craig
 - a. July 23, 2009
 - The minutes were approved as submitted.*
3. Financial Report – Elizabeth Levi
 - a. Account Balance
 - The checking account is currently holding a balance of \$27,258.33.*
 - b. California Audit
 - CCTIA is being reviewed by the State in order to confirm its charitable status.*
 - c. Unpaid Membership
 - Krazan & Associates and Twining Laboratories of Southern California have paid their dues and been reinstated.*
4. Committee Reports
 - a. San Francisco DBI – Dave Chippero, Liaison
 - No action to report*
 - b. ICC/Local Jurisdictions – Miki Craig, Chair (*2 handouts*)
 - Secretary Craig distributed the TUCC's new Policy 15 on Suspended Ceilings. This policy has determined that special inspection is NOT required for suspended ceiling anchorages.*
 - In a follow-up to an agenda item mentioned at last month's meeting, Secretary Craig distributed copies of the TUCC's July meeting minutes. Item 8, referring to new special inspection requirements on the agenda, turned out to be the presentation of a PowerPoint program addressing special inspection requirements under the new building code. The program was developed by the coalition of jurisdiction participants.*
 - c. ASTM – Jeff Cannon, Chair



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- Member Terry Egland noted a C39 ballot item that was designed to change length to diameter ratio to coincide with the requirements of C42. Another item removed the requirement that the technician performing compression testing must rotate the head of the machine when it is being lowered. A last item changed the requirement for keeping the spherical head clean, to specifically cleaning the head every six months. This new language will require labs to create some form of tracking mechanism in order to comply.
- d. SEAONC CQA – Ross Esfandiari, Chair
 - Member Terry Egland reported that Tim Hart has been appointed the Chair for the committee this year. His main focus will be completion and publication of the guidelines for special inspection. The Committee's next meeting will be held Thursday, August 29th.
- e. DSA – John Byerly, Chair (*handout*)
 - October 22nd is the Anaheim meeting with DSA. Director Byerly requested a copy of the registration list so he can start calling firm to build a question bank for the meeting. The announcement will be re-mailed on September 1st and October 1st in addition to email broadcasts in the same timeframe.
- f. ACI – Cliff Craig, Chair
 - A Lab Tech Level 2 program is being presented in Pleasanton on August 29th. The program is available, but not frequently. Director Byerly noted that SoCal firms must send candidates to Las Vegas for anything other than Field Tech Grade 1 certification.
- g. Membership – Jim Backman/John Byerly, Co-Chairs
 - Pending applicant, Pacific Crest Engineering, has been audited. A new application from Reliant Testing Engineers has been received. Both firms have been placed on the September board meeting agenda.
- h. Code Adoption/IBC – Simon Makdessi, Chair
 - No report
- i. Newsletter – Elizabeth Levi, Editor
 - New issue has been published. Obtaining articles remains a problem. The problem has been referred to the Board for review and action.
- j. Internal Auditing – Terry Egland, Chair
 - No action to report
- k. ASFE – Elizabeth Levi, Liaison
 - The fall meeting is coming up. It will be held in Austin, Texas, on October 2nd. Treasurer Levi will be a guest speaker at the CoMET luncheon. Director Jeff Cannon will be assisting her.
- l. Standard of Practice – Miki Craig, Chair
 - The committee reviewed five packages last month. Only one was submitted correctly. All others have received letters requesting appropriate corrections.
 - Secretary Craig is compiling the notes submitted for the Blue Book revisions, and hopes to schedule another meeting early next month.
- m. Education – Rick Van Horn, Chair
 - Chair Van Horn is looking towards the end of the year for another program.
- n. FAQ's – Terry Egland/William Wahbeh, Co-Chairs



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- Co-chairs Terry Eglund and Will Wahbeh are working on a proofloading FAQ, which should be completed shortly. They are still waiting responses to rewrites on the ceramic backing FAQ prior to publication. Secretary Craig noted that she is starting to include pdf's of each FAQ on the website for easier downloading and printing.
 - o. Pins & Honors – William Wahbeh/Mike Parker, Co-Chairs
 - President Parker indicated he would look into a possible honorarium for Member Dave Palfini, to be presented at the 2010 ABM.
 - p. Website – Miki Craig, Webmaster
 - No activity to report
5. Old Business
- a. 2010 ABM
 - CMACN Executive Director Kurt Siggard will be a guest speaker. He will not require room accommodations, which will help to hold down costs. He has requested input from the membership for topic(s) that would be of interest to attendees.
 - Treasurer Levi noted that Peggy Pound, a local (Las Vegas area) motivational speaker, might be an additional option for the meeting.
 - b. Meeting Arrangements w/Caltrans re Certification of Technicians – Jeff Cannon
 - Deferred to next meeting
 - c. Update of the “Testing of Concrete Masonry” Manual
 - The volunteers present noted they had not received any word from Kurt Siggard pertaining to arrangements to get this work started.
6. New Business
- a. California Green Building Standard Section A5.405.5 – Terry Eglund (*handout*)
 - Member Eglund distributed a commentary addressing concerns about the use of Caltrans' new Section 90 Specifications for cement and concrete in lieu of traditional ACI and ASTM standards.
 - b. Proposal to Promote More Participation in the Newsletter– Terry Eglund
 - Member Eglund drafted a proposal to the Board of Directions that CCTIA charge \$100 for publication of newsletter. Firms contributing an article at least once per year would be refunded. Treasurer Levi suggested Chairs be required to contribute short articles addressing committee activities. It was argued that this information was readily available in the meeting minutes. Another member suggested there be more participants than just the Editor to compile the newsletter. Discussion was deferred to the Board of Directors for additional review and action.
 - c. NEHRP Seismic Design Technical Brief #2
 - A new publication entitled “Seismic Design of Steel Special Moment Frames: A Guide for Practicing Engineers” (AISC 341) is now available as a free download at nehrrp.gov/pdf/NISTgcr9-917-3.pdf. This link will be added to the Member Tools page of the CCTIA website for easy access of the membership.



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7. Adjournment – Mike Parker

a. Time

•*There being no further business, President Parker adjourned the meeting at 4:01 p.m.*

b. Next meeting

•*The next meeting will be held September 24, 2009, at 3:00 p.m., at the Sheraton Pleasanton Hotel.*

Respectfully submitted,
Miki Craig
Secretary

ICC TRI-CHAPTER UNIFORM CODE COMMITTEE (TUCC)



POLICY NUMBER: 15

APPROVAL DATE: July 9, 2009

SUBJECT: Suspended Ceiling

This guideline is developed by the Tri-chapter Uniform Code Committee and is intended to enhance regional consistency in application and enforcement of the Building Code. Please verify acceptance of this guideline with your local building department prior to its application.

CODE REFERENCE (S):

ASCE 7-05 Section 13.5.6.2.2(h) – requires special inspection for suspended ceilings per Section 11A.1.3.9

ASCE 7-05 Section 13.5.6 Suspended ceilings requirements

ISSUE (S):

There is currently no certified special inspector for suspended ceiling. Besides Section 11A.1.13.9 is not adopted by IBC.

ASCE requirement is not clear whether diagonal splay wires can be used instead of rigid braces. It is also not clear when tenant improvement projects are required to comply with all suspended ceiling requirements.

GUIDELINE/ INTERPRETATION:

1. Special inspection is not required for suspended ceiling.
2. Splayed wire compression post bracing system can be used. However, lateral deflections for sprinkler heads and other penetrations have to be oversized in accordance to ASCE Section 13.5.6.2.2 (e).
3. Suspended ceiling requirements is required only in the area of remodel when new ceiling is proposed. Where it is difficult to isolate the area of remodel by

rooms or walls, designer will have to work out the proposed suspended ceiling design with the local jurisdiction.

4. When no work is proposed to be done in the existing T-bar ceiling in the area of remodel, existing ceiling design does not have to comply with the new code requirement, except that the ceiling has to have the proper support for seismic load.

Tri-Chapter Uniform Code Committee (TUCC)

Meeting Minutes for July 9, 2009
Milpitas City Hall
455 E. Calaveras Rd.

Call to Order:

Meeting called to order at 1:20 p.m. by committee co-chairperson Sheila Lee, City of Santa Clara.

1. In Attendance/Self Introductions:

*Sheila Lee, City of Santa Clara
Keyvan Irannejad, City of Milpitas
**David Basinger, Shums Coda Associates
Michael Richards, Foster City
Homer Maiel, City of San Jose
Giyen Senaratne, WC3
David Chung, City of Gilroy
Oliver Chan, City of Milpitas
Suresh Acharya, City of Concord
Kevin Mulcahy, City of Concord

Kerwin Lee, Rolf Jensen & Associates
Sayaka Yamaru, CSG Consultants
Phuong Devries, CSG Consultants
Ana Akin, Bureau Veritas
Doug Talmage, Bureau Veritas
Harry Attri, Contra Costa County
Stephen Lau, City of San Mateo
Susan O'Brien, O'Brien Consulting
Akitayo Akiloumi, City of San Ramon

* Chairperson

** Secretary

+ Additional/Back-up Secretary

2. Minutes Approval:

The previous minutes were reviewed and approved unanimously.

3. Title-24 Energy Regulations Effective Date:

Sheila noted that the effective date for enforcement has been postponed to January 1, 2010, due to problems with design compliance software. This will allow more time for possible training of jurisdictional staff during the delay. Santa Clara has sponsored training that has filled up quickly, and Sheila suggested that all jurisdictions contact the Energy Commission for possible future free training on the regulations.

4. Suspended Ceiling Policy (Sheila Lee/David Basinger):

Sheila indicated that the policy was modified based on the feedback that was received last month. Item #3 was new to apply for only when new ceiling provided, due the requirements as needed, and item #4 related to seismic bracing in unchanged ceilings.

Keyvan asked whether or not the IBC references should be indicated as CBC, but Sheila indicated that the adopted base document is the IBC. Stephan asked whether or not Building Inspector should replace the required Special Inspector language found in the document, and would product specifications that require special inspection add confusion to the intent of the policy. Ultimately the group felt that the conflicts were minor and did not need to be revised.

Action Taken: Unanimously approved.

5. Unprotected Stairs Atrium (Giyon Senaratne):

Giyon presented additional information on this item found in the 2006 IBC Handbook, which requires the exit travel distance limits to determine whether or not exit stairs need to be enclosed within the atrium space. The conclusion was that under the 2001 CBC the open exit stairways were not allowed in the atrium, and in his opinion the 2007 code is silent on this question, or at least there is a conflict between atrium provisions of 404 and egress requirements of 1020. However, Giyon also thought that allowing a double redundancy with a smoke control system, under the alternative materials and methods approach would make him more comfortable with the open exit stairway.

Homer too was having some problems with the requirement, as in some cases (such as a retail mall) there could be conditions that would prohibit only 50% of the exits being through a lobby - but the 200-ft. limits are consistent with the shopping/retail exit travel distances. However, Homer also indicated that the 2009 IBC code change language would affect Section 404.8 (travel distance is changed), and Section 1020.9 (as exceptions 8 and 9 were eliminated). The atrium was suggested to be like a modified mezzanine, beyond two levels it will need to comply with chapter 10 mezzanine requirements, but as atrium levels goes up and protection requirements also increase; up to two floors can open into the atrium per CBC 404.5 exception #3. Sheila clarified that the means of egress changes the requirements for all conditions.

Action taken: None - discussion item only

6. Duct penetration allows for two or three floors (Giyon Senaratne):

Giyon questioned how the duct penetration requirements of the 2007 CBC were being applied to a multi-story building with air ducts running up the walls - issue related to the duct penetrations for over three floors. In two story penetrations - no problem; but that CBC 716.6.1 would allow ducts that penetrate three floors (i.e., can connect four floors). Sheila asked again whether or not ICC has been contacted on this item - not yet. Ty notes that with metal duct multiple penetrations are acceptable, but Giyon was concerned with sub-ducts, and other penetrations. Homer noted that San Jose has developed some typical details of construction/requirements for ducts in townhomes.

Action Taken: Giyon to confer further with ICC staff, and report information gathered back to the group.

7. Unvented attics and foam insulation (David Basinger):

In response to the recent presentation of the unvented attics using foam insulation at the Peninsula Chapter Meeting, Dave asked whether or not other jurisdictions had dealt with actual unvented attic conditions in construction and review. In Mountain View there have been a few installations that have not been as simple and clean as suggested by the foam insulation installers, and he was concerned that perhaps this was an area that needed to be explored by the Tucc for possible interpretation policy. In particular, items such as whether or not roof warranties were maintained, how to deal with typical installation conditions with electrical, mechanical and plumbing systems, as well as fire-

proofing conditions. However the group did not feel that this was a major concern at this point, as most were still approaching this as an alternative materials and methods condition.

Sheila also noted a proposed 2010 CBC code change to Section 1203.2, as the attic spaces to be determined by the Building Official as necessary due to climatic or atmospheric conditions - still under review at this point.

Action taken: None - discussion item only

8. Special Inspection

Keyvan showed portions of a power-point presentation from the special inspection sub-committee group. Although there were many points examined related to all the types of required special inspections, the points were primarily focused on changes found in the 2007 CBC. Key points were as follows:

- Chapter 17 added new Section 1706 - contractor responsible for construction, there is a form that acknowledges special inspection requirements maintained.
- 1707.3 wood special inspection is now required for glued elements of the seismic force resisting systems. Some of the special inspection findings were that wood requirements were too restrictive, and should be allowed to be completed by a private third party inspector/engineer or continue to be done by the City Building Inspector.
- All inspections are continuous (unless noted as periodic), per Section 1704.3 for high-strength bolting, welds, etc.
- New additional requirements for cold-form steel framing per 1707.4 relates to welding, screw attachments, bolting, anchoring (including struts), braces and holdowns.
- Section 1707.5 - pier foundation inspection of concrete and steel cage placement, with the geotechnical engineer providing the inspection of pier holes.
- Section 1704.13 - special inspection for special cases, as deemed necessary in the opinion of the CBO due to the unusual nature of the construction or due to alternative materials and methods.
- Expansion anchors are based on the designer and product - expansion anchors are required (only special inspection allowed with expansion anchors).
- Racks and access floors - depends on the type of connection as to whether or not continuous or periodic inspection is required, over 6-ft. high per 1707.7.
- Masonry was the biggest change in the new codes - previously 1/2 strength stress design did not require special inspection, but the new code 1704.5, would require placement and unit strength or prism test, prior to construction. Empirically design not required, but not allowed in our seismic design D, E and F.

Other code items to discussions:

Harry asked about insulated structural panels, but not approved for seismic design categories D, E and F. Keyvan indicated that it was being used previously with clean rooms and have either testing or seismic design value calculations - can't use without this information. Sheila agrees that with appropriate and acceptable criteria/reasons provided, they could continue to justify the use in some building design categories.

There was also a brief discussion of trending of "green" building products and the building department's involvement with reviews and certifications. The discussion was varied on this subject, and perhaps warrants additional discussions at a later date.

Next meeting scheduled for August 13, at 1:15 p.m.

Meeting adjourned at 3:27 p.m.



CALIFORNIA COUNCIL OF TESTING AND INSPECTION AGENCIES

Cordially Invites You

CCTIA's General Business Meeting

Thursday, October 29, 2009

12:00 p.m. to 3:00 p.m.

Sheraton Park Hotel

1855 South Harbor Blvd.

Anaheim, CA

714-740-4162

SPECIAL GUEST SPEAKERS from DSA

• **David Thorman**

(State Architect)

• **Chip Smith**

(Structural Engineer)

• **Eric France**

(LEA Administrator)

• **AFEST Team**

(Field Engineers)

COST

CCTIA Member Firms– FREE!

Non-Members - \$35.00 (pay at the door)

Lunch is included!

You've got questions – they'll have the answers!

Please submit your questions in advance to info@cctia.org. We'll forward them (anonymously, of course) to DSA prior to the meeting so our guests will be ready to respond to the things that matter to you!

Please RSVP no later than October 16th to:

Miki Craig, CCTIA Secretary

Phone: 650-967-6982

Email: info@cctia.org

Special room rate offered by the Sheraton for this event:

\$139/night

We have concerns that the California Green Building Standard Section A5.405.5 Cement and Concrete must be well reviewed and approved with appropriate stakeholder input. While we encourage sustainable material properties and applications, this section must provide reasonable direction for effective implementation.

Recent versions of this Section reference Caltrans new Section 90 Specifications for cement and concrete. It is unrealistic to assume that replacing ACI and ASTM standards that have allowed green innovations for decades should be replaced by a very complex Caltrans standard that is untried and untested. The results of a change to a Caltrans specification for buildings would create complex problems for designers, builders and inspectors.

We also understand another version of the section on cement and concrete being considered will require minimum levels of supplementary cementitious materials. While a minimum 25% fly ash works for Caltrans roads and bridges, it is inappropriate for buildings. While supplementary cementitious materials are the most obvious and common way to reduce the CO₂ profile of concrete, it is not the only one. Setting these minimum standards could have a dramatic impact on construction schedules, thwart other technological advances with environmental benefits such as high strength concrete and threaten precast concrete and concrete masonry products from the market.

The stakeholders contracted for building design and construction including architects, structural engineers, civil engineers and builders appear not to have weighed in on this. We believe that this standard should incorporate input from those that will be responsible for implementing it.

We would appreciate your assistance in communicating these concerns to the California Building Standards Commission. CBSC set a meeting with short notice for Monday August 17 at 1:30 for industry and Caltrans to discuss this.