



ICC LA BASIN CHAPTER STRUCTURAL CODE COMMITTEE



Tuesday, July 10, 2007
1:00 p.m. to 4:00 p.m.
L.A. County Annex Building
2nd Floor Conference Room
900 S. Fremont Avenue, Alhambra

<p><u>ATTENDEES:</u></p> <p>Chairpersons Present: Truong Huynh Philip Yin</p> <p>Committee Members Present: Steve Lam, Forest Nishiyoka, Ben Yousefi, Jameson Lee, Ben Ling, Mazen Dudar, Ed Alexanians, Eddie Yamamoto</p> <p>ICC Board Members Present: Hassan Alameddine</p>	<p><u>STAKEHOLDERS IN AUDIENCE:</u></p> <p>SEAOSC Committee Members Present: Mehran Pourzanjani (Seismology) James Lai (Seismology) Carl Sramek (Building Code)</p> <p>Structural Engineers Present: Mikhail Gershfeld (APA) Timothy Koutsouros (VCA) Richard Geary (SFA)</p> <p>Other: Jae Lee</p>
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DOCUMENT HANDOUTS:

- Email Thread dated 2007-07-05 by Philip Yin
- IBC Base Shear Analysis by Philip Yin
- Proposed amendment (ASCE 7 12.12.3 Building Separation) by James Lai

MEETING AGENDA

1. Introduce new member(s) not in attendance in previous meeting(s).
2. Approval of minutes of previous meeting.
3. Assign a lead person(s) to material chapters not yet selected.
 - Chap 17, 20 and 21 remain unassigned.
4. Discuss existing business from previous meeting.
 - James will present the revised building separation equation.
 - Ed to present proposed amendment for adding a 2-story limitation to Exception 3 of Section 12.2.3.1.
 - Ben will see if a letter can be issued from ASCE recommending the committee to adopt the proposed amendment.



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- Mikhail of APA will see if he can obtain or provide shear wall testing data to the committee next week for the discussion on whether or not to allow designer the ability to calculate shear wall values.
- 5. Review existing LARUCP amendments related to Chapter 23 Wood.
 - Discuss LARUCP 23-01 thru 23-18 and make recommendation to keep or delete existing amendments.
- 6. Open discussion of any new business.
 - Sharing of information with the Orange County & San Diego Chapter - Truong
- 7. Establish tasks to complete for the next scheduled meeting.

DISCUSSION/COMMENTS:

1. Introduce new member(s) not in attendance in previous meeting(s).
 - Mazen Dudar of LA County, Timothy Koutsouros of VCA, and Richard Geary of Scott Fazekas and Associates were introduced as first time participants at the meeting.

Action Item 1: What action to take on this discussion, if any.

2. Approval of minutes of previous meeting.
 - Truong asked the members present to approve previous meeting minutes. Ben Yousefi made a motion to approve, Jameson second the motion. Motion was approved with no objection.

Action Item 2: What action to take on this discussion, if any.

3. Discussion three.
 - Lead persons for Chap 16 are Philip Yin and Jameson Lee.
 - Lead person for Chap 18 is Hassan Alameddine.
 - Lead persons for Chap 19 are Ben Yousefi and James Lai.
 - Lead person for Chap 22 is Truong Huynh.
 - Lead persons for Chap 23 are Ben Yousefi, Steve Lam and Tom VanDorpe.
 - Lead person for Chap 34 is Steve Ikkanda.
 - Chap 17, 20 and 21 are still outstanding.
 - See attached email distribution list for contact information of the lead person(s).

Action Item 1: Any and all inputs or comments related to Chap 16, 18, 19, 22, 23 and 34 should be forwarded to any of the designated lead persons who will then organize and present the materials to the committee members for discussion and/or review. Lead person should provide a quick bullet point summary of topics to be discussed and email them to either Philip or Truong for incorporation in the next meeting agenda.



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Action Item 2: Truong will prepare a tentative schedule of when certain remaining material chapters are to be discussed and reviewed.

4. Discuss existing business from previous meeting.
- James presented the revised draft language of amendment to ASCE Section 12.12.3 (Building Separation) for the third time. Much of the discussion revolved again on how to define Δ_M and δ_{max} , and the exception language should be made the same as the current code. Based upon discussion, James will revise the proposed amendment and forward via email to the committee to review. Further discussion is no longer necessary.

Action Item 3: James will revise the amendment and email it to the committee members for final review and approval.

- Ed presented to the committee two proposed amendments: ASCE Section 12.2.3.1 Exception 3 and Section 12.2.3.2.

Section 12.2.3.1 Exception 3: Committee members present are in general agreement with adding the two-story limit to Section 12.2.3.1 Exception 3. The committee request that the proposed language limiting the R values be removed from the recommendation.

Section 12.2.3.2: Committee members present recommend Section 12.2.3.2 should not be changed. No proposal will be brought forward to amend this section.

Action Item 4: Ed will revise the proposed amendment to Section 12.2.3.1 Exception 3 and present it to the committee for final discussion and approval.

- Ben indicated that it is not necessary to have a letter issued from ASCE regarding the revision to the minimum base shear since the proposed revision has been tentatively approved for ASCE 07-10. Furthermore, both SEAOSC and other structural engineer organizations from the state level are in support of adopting of the revised minimum base shear. The proposed revision is noted below:

$$C_s = 0.04 \underline{0.044 S_{DS}} \geq 0.01 \quad (\text{Eq. 12.8-5})$$

- Mikhail emailed the APA Panel Design Specification (PDS) to the committee members on Tuesday, 7/10. Many committee members were unable to review the PDS. Mikhail stated that there is a letter from APA addressed to the City of LA based on the findings of the CUREE Wood frame project and he will forward the letter to the committee members for review and further discussion, if necessary.

Action Item 4: Mikhail will forward the letter to the committee for further discussion in the next meeting.



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5. Review existing LARUCP amendments related to Chapter 23 Wood. LARUCP 23-6 thru 23-8 and 23-10 were discussed. Based on the committee's discussion, the following recommendations are summarized:

- LARUCP 23-6: No longer necessary as deflection calculation is addressed in IBC Section 2305.3.2. Steve indicated that a report from CUREE suggested that the APA drift equation is overly conservative. Committee to recommend **NO**.
- LARUCP 23-7: Most of the discussion on whether or not to carry this amendment center around quality control issue. Most agreed that this generally understood engineers or plan checkers, however opinion differs as to whether or not contractors were aware of this and whether or not inspection staff still face this ongoing issue. Further discussion needed.

Action Item 5: Each jurisdiction will survey their inspection staff to determine if this amendment is still necessary.

- LARUCP 23-8: No longer necessary as it is addressed in IBC Section 2306.4.4. Committee to recommend **NO**.
- LARUCP 23-10: Much of the discussion centered on the 25% reduction of allowable shear wall values in Table 2306.4.1 and limiting 3-ply shear wall capacity to 200 plf. This amendment was originally introduced due to recommendations made by LA City / SEAOSC Task Force after the 94 Northridge Earthquake. However, the 25% reduction of allowable shear values may no longer be warranted or necessary today since recent testing and report (i.e., COLA-UCI testing program, CUREE, etc.) suggested that the values for the shear walls listed in the code were acceptable even under cyclic conditions. Furthermore, the prevalent use of structural observation for shear wall with allowable capacity greater than 300 plf helps to improve on the quality assurance of the wall's construction. The issue relating to the 200 plf limitation of 3 ply plywood still remain. Over-driven nails into the plywood panels are still prevalent in the field despite the effort of inspections and structural observations. Further discussion is needed.

Action Item 6: Each jurisdiction should survey their inspection staff to determine how prevalent this issue is in the field.

Action Item 7: Mehran and James will follow up with the Seismology and Light Wood Frame Committee for an opinion.

6. Open discussion of any new business.

- Truong indicated a need of sharing information with Orange County and San Diego Chapter for seismic design requirements in hopes of uniform adoption and enforced in the Southern California region. Information will be forwarded back and forth between the two chapters to support and further this effort.



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7. Establish tasks to complete for the next scheduled meeting.
 - The committee will continue to discuss remaining items of LARUCP Chapter 23.

ACTION ITEMS (FOLLOW UP) AND RESPONSIBLES:

1. Review of Chapter 23 Wood. Forward any comments and proposals, if any, to Steven Lam, Ben Yousefi, or Tom VanDorpe.
2. James will revise building separation equation and present for next meeting.
3. Truong will follow up with the Steel Committee and present his findings back to the committee at a later date.
4. Ed to propose an amendment and present to committee for review that adds a 2-story limitation to Exception 3 of Section 12.2.3.1.
5. Truong will prepare a tentative schedule of when certain remaining material chapters are to be discussed and reviewed.
6. Mikhail will forward the letter to the committee for further discussion in the next meeting.
7. Each jurisdiction will survey their inspection staff to determine if LARUCP 23-7 amendment is still necessary.
8. Each jurisdiction should survey their inspection staff to determine how prevalent the over-penetration of nails into 3-ply plywood is in the field. Mehran and James will follow up with the Seismology and Light Wood Frame Committee for an opinion.

NEXT MEETING:

- July 24 (Tuesday), 1:00 PM to 4:00 PM at the 2nd floor of the Annex Building.

Note: The Annex Building is a 3-story building located to the north east of the Headquarters Building within the same DPW site. Park on the east side of the parking lot and you will see it.