

ICC LA BASIN CHAPTER STRUCTURAL CODE COMMITTEE



MEETING MINUTES

Tuesday, June 26, 2007

1:00 p.m. to 4:00 p.m.

L.A. County Building, Plan Check Conference Room
900 S. Fremont Avenue, Alhambra

ATTENDEES:

Chairpersons Present:

Truong Huynh, Philip Yin

Committee Members Present:

Steve Lam, Forest Nishiyoka, Ben Yousefi,
Jameson Lee, Nick Delli Quadri

ICC Board Members Present:

Hassan Alameddine, Steve Ikkanda

STAKEHOLDERS IN AUDIENCE:

SEAOSC Committee Members Present:

James Lai (Seismology)
Carl Sramek (Building Code)

Structural Engineers Present:

Mikhail Gershfeld (APA)

Other:

Jae Lee

DOCUMENT HANDOUTS:

- Email by Jameson Lee – Continuous Tie Spacing and Sub-diaphragm
- Email by Steve Lam – Question Regarding ST-12
- 2002 LARUCP for Chapter 16 (16-5) and Chapter 23 (23-01 thru 23-18)
- LABC Division 23-Wood (drafted)
- Proposed amendment (ASCE 7 12.12.3 Building Separation) by James Lai
- Analysis on LARUCP Chapter 23 by Ben

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, 18, 20 and 21 remain unassigned
4. Discuss existing business from previous meeting.
 - Nick Delli Quadri will discuss any comments or concerns identified by the LA Tall Building Council on the proposed minimum base shear.
 - Jameson will present the recommendation to the committee on the continuous tie spacing and sub-diaphragm limitation.
 - Ben to discuss any info on continuous tie spacing proposed by SEAONC.
 - James will present the revised building separation equation.

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- Ben to present the LARUCP amendment for Important Factor in Stability Check for approval.
 - Ed to present proposed amendment for adding a 2-story limitation to Exception 3 of Section 12.2.3.1.
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.
 - Steve Lam – ST-12, soils report for SDC C thru F
 7. Establish tasks to complete for the next scheduled meeting.
 8. Determine next meeting time and location.

DISCUSSION/COMMENTS:

1. Introduce new member(s) not in attendance in previous meeting(s).
 - Carl Sramek of SEAOSC Building Code Committee and Mikhail Gershfeld of APA Field Services Division were introduced as first time participants at the meeting.
2. Approval of minutes of previous meeting.
 - Truong proposed an amendment to the previous meeting minutes. The change was to include discussion on existing LARUCP 16-7 regarding hillside design provisions. LA City will review and provide an updated version for the committee's tentative approval. Truong asked the members present to approve previous meeting minutes with suggested amendment. Steve Ikkanda made a motion to approve, Jameson second the motion. Motion was approved with no objection.
3. Assign a lead person(s) to material chapters not yet selected.
 - Hassan Alameddine volunteered to be the lead person for Chap 18.
 - Lead persons for Chap 16 are Philip Yin and Jameson Lee.
 - 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 Van Dorpe.
 - 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.
- Nick shared with the committee the discussion he had with Tom Sabol, Farzad Naeim and John Davis on the proposed minimum base shear (Eq. 12.8-5). In order to justifying the proposed minimum base shear, Nick recommends that the committee obtain support from engineering groups/organizations. Ben will consult with ASCE 7 seismic task committee to determine if a letter of support and recommendation can be obtained.

Action Item 3: Ben will share the results of any discussion he may have received with ASCE 7 seismic task committee in the next meeting on eq. 12.8-5. Furthermore, Ben will see if a letter can be issued from ASCE recommending the committee to adopt the proposed amendment.

Note: Since the meeting, Nick has forwarded various emails from Jack Moehle, Professor at UC Berkeley, and John Hooper, MKA Engineering, recommending that the adoption of the minimum base shear is appropriate due to the recent research in PEER and in an ATC 63 project. The conclusion that the reduction of the base shear led to a trend in which tall buildings had decreasing safety with increasing height. Furthermore, the propose amendment ASCE 7 is very well supported by the engineering community as it is expected to be accepted overwhelmingly when it goes out to public comment.

- LARUCP 16-5: Jameson discussed and explained the intent of the 25 ft continuous tie spacing and 300 plf limitation of the sub-diaphragm value as adopted in the existing LARUCP 16-5 after much consultation with Doc Nghiem, the former chairperson on the LA Task Committee. The recommendation to increase the spacing limit to 40 ft in lieu of 25 ft for the continuous tie spacing and to use 75% of allowable code diaphragm shear to determine the depth of the sub-diaphragm in lieu of the 300 plf was deemed appropriate and acceptable. Committee members present is in general agreement with this recommendation.
- Ben was unable to contact SEAONC for more information on continuous tie spacing proposed by SEAONC. No further action will follow as the committee will recommend approval based upon discussion noted above.
- James presented the revised draft language of amendment to ASCE Section 12.12.3 (Building Separation). Much of the discussion revolved again on how to define δ_m and δ_{max} . Based upon discussion, James will revise the proposed amendment and bring forth to the committee to review at the next meeting.

Action Item 4: James will revise the proposed amendment and present to the committee in the next meeting.

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- It was generally agreed that the proposed LARUCP amendment for the "Important Factor in Stability Check" be adopted based on DSA's adoption of the same provision.

Action Item 5: Ben will provide a draft of said provision in an LARUCP format for committee members to review at next meeting.

- Ed was not present at the meeting for the proposed amendment for adding a 2-story limitation to Exception 3 of Section 12.2.3.1

Action Item 6: Ed to present the proposed amendment to the committee in the next meeting.

5. Review existing LARUCP amendments related to Chapter 23 Wood.

- LARUCP 23-1 thru 23-5 and 23-9 were discussed. The analysis summarized and provided by Ben were reviewed and discussed. Based on the committee's discussion, the following recommendations are summarized:

- LARUCP 23-1: No longer necessary as IBC does not prohibit this. Committee to recommend **NO**.

- LARUCP 23-2: Much of the discussion centered on the cantilevered diaphragm limitation. General consensus is this provision should be kept, but maybe a change to the language will help make the provision more effective. Furthermore, committee needs to determine which location to locate this provision in the IBC. Further discussion needed.

- LARUCP 23-3: Much of the discussion centered on the deletion of the language that permits the designer to calculate the shear wall values based upon principle of mechanics. The committee general agrees to carrying forward the panel edge nailing requirements and other specifications for shear panels greater than 350 plf. Further discussion needed.

Action Item 7: 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.

- LARUCP 23-4: Addressed in IBC. No longer needed. Committee to recommend **NO**.

- LARUCP 23-5: Reduction to hold down connectors should remain. Recommend eliminating the steel plate washer table and instead add in the language the requirement to provide two plate washer sizes, 2.5x2.5x1/4 and 3x3x3/8, for 5/8" diameter bolt and all other larger bolts size.

- LARUCP 23-9: Committee to recommend **NO**. See discussion above.

6. Open discussion of any new business.

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- Steve raised the issue of soil report requirements for structures assigned to SDC D, E and F and LARUCP ST-12 requirements. While it may not be an LARUCP item that the committee proposes, it could be handled and addressed by an information bulletin. Further discussion is needed.
- Nick distributed LA's recommended revisions to Chap 23. This is a draft document and should not be forwarded to anyone outside the committee.
- Jameson pointed out that the design coefficient parameters from the USGS website keeps changing. This will cause problems for the plan reviewers, particularly with enforcement if when they verified is different from what the design engineer may have obtained at the time of their design.

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. Ben will prepare an LARUCP amendment to incorporate TC-2-CH12-08 Important Factor in Stability Check and present back to the committee at a later date for approval.
5. 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.
6. Truong will prepare a tentative schedule of when certain remaining material chapters are to be discussed and reviewed.
7. Ben will see if a letter can be issued from ASCE recommending the committee to adopt the proposed amendment.
8. 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.

NEXT MEETING:

July 10 (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.