ACI COMMITTEE 551
TILT-UP CONCRETE CONSTRUCTION

MINUTES OF THE MEETING
Thursday, June 2, 2005
La Posada de Albuquerque
ALBUQUERQUE, NEW MEXICO

Members Present:

Jim Baty                Jeff Griffin
Dave Kelly              Lionel Lemay
Joe Steinbicker         Ed Alsamsam
Al Engleman             Shawn Hickey
Roy Edgar               Ed Sauter
Bob Truitt              Mukhtar Giandi
Ed Mcguire

I. CALL TO ORDER
   A. The meeting was called to order by the Chair, Ed McGuire at 9:30 a.m.

II. REVIEW/APPROVAL OF MINUTES
   A. A motion to accept the minutes of the October 24, 2004 meeting was made seconded and approved.

III. COMMITTEE MEMBERSHIP
   A. Committee reviewed roster for changes and updates. There is a need to review the positions on the committee following the completion of the two guides since there are a number of inactive voting members making it more difficult to reach quorums.

IV. CORRESPONDENCE
   A. Jim Baty discussed the continued concern of a joint group of interested persons from ACI 318, BSSC and ASCE regarding the performance of Tilt-Up construction in seismic events. The meeting in San Francisco, although including a significant discussion with BSSC Concrete Sub-Committee Chair, Neil Hawkins, did not produce any progress in the interest of resolving these concerns. This committee had given Professor Hawkins three or four key liaisons for concerns and to date none had been contacted. The issue surrounds the IBC 2006 inclusion to limit the height of Tilt-Up and Precast buildings to 40-ft with an exclusion to 45-ft for distribution facilities. This is in response to ASCE and NEHERP concerns for the loads applied and the response created in diaphragms connected to concrete panel structures.

   1. Steinbicker stated that 551 and the Tilt-Up industry has done a good job from the start defining a difference between precast and Tilt-Up. Perhaps the issues lies in a lack of
understanding about the difference and the superior performance embodied in Tilt-Up structures.

2. A question was raised as to whether this issue was actually a seed germinating from the evolving competition with precast in an attempt to stave off market penetration. This is very unlikely as the individuals voicing the concern are stating the same problems for both systems rather than one over the other.

3. Steinbicker asked a rhetorical question whether or not we as the Tilt-Up industry are willing to adopt precast provisions to apply to Tilt-Up.

4. Can we document or map the flow of the issue from the point of initial concern to where it is now? Who would we contact? Likely Hawkins is the best start.

5. Committee members voiced that we must get confirmations from those willing to participate in an effort to address this concern.

6. Alsamsam stated that the PCA workshops repeatedly turn up provisions for Tilt-Up as the #1 item for interest.

7. Can a meeting be established, possibly facilitated by Jim McKeen (successful facilitator for ACCS strategic planning session)?

8. Alsamsam informed the committee that the next PCA workshop was scheduled for July 7th. Is it possible that the TCA could have representation during that workshop? No volunteers at the present time were identified and TCA staff has a schedule conflict with that time.

9. TCA staff will continue to monitor and maintain contact with the key individuals from the three identified groups (ACI, BSSC and ASCE) to determine possible opportunities for interaction.

V. SUBCOMMITTEE REPORTS

A. Specification guide

1. Baty reported that the document that had been soft-balloted and then passed to the TSC had been returned marked for additional inclusions. No progress had been made on this document due to the attention needed to the Construction and Design Guides and the need to find out what the intentions were for the new ACI 301 committee.

B. Construction guide

1. Committee full approval reached on all TAC responses and document will be on TAC’S agenda for their summer session. If there are further issues, this document will be given back to the committee for a final look in New Orleans. If not, it will begin its process towards publishing.

C. Design guide

1. The primary goal of this meeting is to review the comments received on the May 2005 ballot for the Design Guide. These comments are listed below by the reviewer’s name. Action taken by the committee is provided where appropriate following discussion during the meeting.

2. Draft #9 was balloted on April 29, 2005 with a canvas date of May 29, 2005. This ballot passed both the 1/2 and 2/3 rules with a total of 7 Yes votes and 3 Yes w/ Comments. There were no negatives and 8 ballots were not returned.

3. Draft #4 of the Design Guide Examples (Appendix B) was balloted on May 2, 2005 with a canvas date of June 1, 2005. This ballot also passed both the 1/2 and 2/3 rules with a total of 8 yes votes, 3 yes w/ comments and 1 abstention. There were no negative votes and 6 ballots were not returned.
4. The comments received from the ballots along with significant comments offered by non-voting member James Lai were reviewed by the full committee. Several of these resulted in substantive changes and one was viewed as a negative. See discussion of these comments on the pages following these minutes.

5. Following the review and resolution of the comments from these ballots, the eight (8) voting members present produced a motion for approval that was seconded and all voted unanimously for the proposed amendments to the document as provided.

6. Griffin will correct all the design examples for minimum steel to match the revision to the Design Guide of 0.002Ag. This is an editorial change.

7. Kopf suggests that on page 23 of the Design Examples in Appendix B the example needs to be revised so that the 12'-1 ½" dimension becomes a maximum of 10-ft. based on ACI 318 chapter 14 where the distance is two times the distance of the loading from the edge of the panel.

   a) Committee feels that we should continue with the example as is shown but having Griffin add the distance of the load from the edge of the panel. This will then be sent to TAC and asked for their interpretation during their review of its resolution based on chapter 14.

8. Jeff Griffin will complete a design example for loading dock panels as discussed above to resolve the only negatives remaining on the document. This example will be added to the complete Appendix B and balloted this month. The document will then be prepared for ACI staff and TAC.

VI. LIAISON REPORTS

A. C-650
   1. Sauter gave an update on the status of certification through ACI and the significance it has reached across North America. A certification exam is being offered during this TCA spring regional meeting. Additionally, certification exams will be offered during the 1st TCA Annual Convention in Atlanta this October as well as the traditional offering during World of Concrete. Three individual or private exams are scheduled in North Carolina, Texas and Florida this summer.

B. TCA
   1. All committee members are encouraged to attend the TCA Convention this October. Unlike the Symposia of the past, there will not be time for ACI 551 to meet in conjunction with this event so the TCA recommends that 551 continue to meet during the smaller TCA spring regional event and then with ACI Convention during each fall.

C. ACI 533
   1. No report at this time

D. ACI 314
   1. A new committee has been formed labeled “Simplified Design of Concrete Buildings.” The goal of this committee is to produce a document that allows buildings with very simple characteristics to be designed more quickly than through the detailed process of ACI 318. This is likely in part due to the successful publishing of ACI 332-04 Concrete Standard for Residential Concrete affecting or limiting the scope for Chapter 22 of 318.

E. ACI 301
   1. Engelman reported briefly of the formation of a master specification committee within ACI. This committee will create task groups or sub-committees for each of the main
applications and look for liaisons to assist in bringing existing specifications into one cohesive document with consistent language and purpose. Al volunteered to remain the liaison to this new committee for 551.

VII. OLD BUSINESS
    A. No old business offered.

VIII. NEW BUSINESS
    A. No new business was brought up for discussion.

IX. NEXT MEETING SCHEDULE
    A. McGuire requested approval of the next meeting to be held during Convention week in New Orleans on Monday morning. All members present were in agreement.

X. ADJOURNMENT
    A. A motion was made and seconded for adjournment ending the meeting at 12:30 pm

Minutes respectfully submitted by:
James R. Baty II
TCA Technical Director and ACI 551 Secretary.