

Minutes
ACI COMMITTEE 355
ANCHORAGE TO CONCRETE
Sunday, November 6, 2005
Kansas City, MO
Marriott Kansas City Downtown

Chair Ron Cook called the meeting to order at 8:30 AM. A quorum was declared present.

All members and guests were self-introduced. Attendees are listed at the end of these minutes.

Minutes: The minutes from the April 17, 2005 meeting in New York City were approved unanimously as written.

Report from ACI Committee 349 Subcommittee C: Herman Graves is the new Subcommittee C chairman. They have been review sample problems. Some cleanup remains

Report from ACI Committee 318 Subcommittee B: A ballot was sent out on 3 items for Appendix D including the adhesive anchor provisions. About 20 negatives were received, all of which can be resolved. Committee 355 was copied, and responses were received from 2 members. Seismic provisions were not balloted Will be discussed at ACI 318 Sub B.

General Discussion regarding product evaluation standards (ACI 355, ASTM, ICC-ES): A general discussion was held on the future of Committee approval standards, and specifically ACI 355.2. The consensus of the members present was that the anchor qualification criteria should stay with ACI 355 so that it can be properly coordinated with the design requirements of ACI 318 Appendix D. The test procedures should be included in ASTM standards such as E 488. ICC-ES should be used as the short term "stop-gap" process for quickly getting needed changes into effect.

The meeting adjourned for lunch at 11:25 PM.

The Committee reconvened at 1:15 PM

Ron Cook, Richard Wollmershauser, and Brian Gerber attended a TAC working meeting at 11:30 AM to discuss the issue of product evaluation standards (ACI 355.2). Ron Cook reported that TAC was in agreement with this arrangement and primarily wanted to know when ASTM will be taking over the testing procedures. ASTM Subcommittee E06.13 has a work item underway to accomplish this. ACI 355 and TAC will be informed of the progress at future meetings.

ACI 355 Spring Seminar on Anchorage to concrete: Ron stated that ACI is conducting a series of seminars on ACI 318 Appendix D using the design examples being developed by this committee. Five or six members of ACI 355 will be giving the seminars. These include: Cook, Klingner, McGlohn, Meinheit, Carrato, and Lamanna.

Resolution of comments on July 7, 2005 ballot on Design Examples 1-7: All negatives and several approval with comments ballot responses for the design examples 1-7 and the tables in the appendix were resolved. A separate document was prepared to give the details of the resolution of these comments. During the resolution of comments, there were at various times 18 to 21 voting members present. The committee consisted of 28 voting members, with 12 votes required according to the 2005 Technical Committee Manual to resolve negatives and make changes to the document as a result of comments.

Resolution of comments on September 26, 2005 ballot on Design Examples 8-12, 14, and 16: There was insufficient response to the ballot to proceed with this draft. The Task Group will discuss these examples at the Monday meeting and revise and rebalot as appropriate.

General discussion of October 1, 2005 ballot on ACI 355.X, Qualification Standard for Post-Installed Adhesive Anchors in Concrete: Richard Wollmershauser gave an overview of the adhesive anchor standard that was under ballot with a closing date of December 2, 2005. The Committee was given 60 days to review the document because of its extensive nature and the other ballot on design examples. A Commentary was under preparation, but may not be completed before the ending of this ballot period.

This document is needed to support the changes to ACI 318 Appendix D for adhesive anchors. ACI 318 wants to include adhesive anchors in the 2008 version. The ACI 355 timeline is to get a finalized document to TAC for their summer 2006 meeting. In order to meet this date, the comments received by December 2, 2005 will be reviewed by the Task Group, with a follow up ballot to resolve negatives to be issued in January 2006. Any remaining negatives will be reviewed at the ACI Committee meeting in Charlotte on March 26. The optimistic expectation is that the document will be sent to TAC for their summer 2006 meeting.

Task Group on remaining changes to ACI 355.2-04: Lee Mattis gave a brief status. He will issue a ballot covering the 8 remaining changes unresolved from the last ballot cycle in the near future.

Task Group on editorial changes to ACI 355.2-04: Brett Turley had nothing to report at this time.

Anchor Programs of Interest: Rolf Eligehausen gave a presentation on anchor behavior in lightweight concrete. Appendix D currently gives factors of 0.75 for lightweight concrete and 0.85 for sand lightweight concrete. For lower concrete strengths these factors are unconservative.

Rolf Eligehausen gave a second presentation on stiffness requirements for base plates.

Both presentations will be posted on the ACI 355 Committee website.

Unfinished business: Wollmershauser made available the Committee 355 notebook containing information and anecdotal evidence of cracking near or at anchors. The Committee at the last meeting wanted this information put on the ACI Committee website. ACI headquarters will be asked to scan the info and post it.

New business:

The proposed dates in Charlotte, NC of the next meetings are Sunday March 26, 2006 for the Committee meeting and Monday March 27, 2006 for Task Group meetings. (Note: actual meeting dates are: TG on Sunday, Committee Meeting on Monday.)

The meeting was adjourned at 5:40 PM.

Respectfully submitted,
Richard Wollmershauser
Secretary

Voting members present (21 of 28): Ranjit Bandyopadhyay, Harry Chambers, Ron Cook, Rolf Eligehausen, Branko Galunic, Herman Graves, Brian Gerber, Chris Heinz, Bruce Ireland, Richard Klingner, Chris La Vine, Nam Ho Lee, Tony Lamanna, Lee Mattis, Robert McGlohn, Donald Meinheit, Richard Orr, Alan Price, Brett Turley, Harry Wiewel, and Richard Wollmershauser.

Associate members present: Neal Anderson, Rick McGrath, Jake Olsen, John Silva, and Robert Smith.

Guests present: Omesh Abhat, and Derrick Watkins.

Committee Mission: *“Develop and report information, and develop and maintain standards for anchorage to concrete.”*

Future ACI Conventions:

Spring 2006	Mar 26 – Mar 30	Westin, Hilton Charlotte Center City, and Charlotte Convention Center
Fall 2006	Nov 5 – Nov 9	Adams Mark, Denver, CO
Spring 2007	Apr 22 – Apr 26	Hilton, Atlanta, GA