

ACI 117 Meeting Minutes

TUESDAY, April 14th 2015

Kansas City Convention Center
8:30AM – 11:30AM

Attendees (39 total):

Voting Members (17/30 = 57%): Eldon Tipping (TAC), Eric Peterson (Chair), Scott M. Anderson (Secretary), Michael Ahern, Scott Anderson (Keystone), Karl Bakke, Bryan Birdwell, David Buzzelli, Allen Face, Michael Hernandez, Mark Josten, Michael Lee, Peter Ruttura, Mike Schneider, Bruce Suprenant, Brett Szabo, Scott Winkler

Associate / Consulting Members (4): Larry Campbell, Dennis Fontenot, Jum Horst, J. Scott Hosking

Visitors (18): Matt Senecal (Staff), Jeff Cochrane, Chris Forster, Pete Fosnough, Bev Garnett, Heston Hamilton, Kris Hughes, Bob Irwin, Larry Karlson, Lloyd Keller, Lee Knox, Ben Larsen, Sean Lynch, Patrick McCarvey, Kristen Roberts, John Turner, Greg Wagner, Stacia Van Zetten

General:

Old Business:

- New Business:

1) General:

- a) Chair Peterson called the meeting to order at 8:30AM.
- b) Introductions within the room were held.
- c) Chair Peterson noted that the committee has 30 voting members and 30 associate members and that the committee membership is fairly balanced, at 50% contractors, 33% engineers-architects and 17% general interest
- d) It was noted that a quorum is present.
- e) Chair Peterson asked the committee to confirm that the October, 28th, 2014, meeting minutes were received and if there were any questions or comments.
- f) The meeting minutes were approved unanimously.

2) Old Business:

- a) It was noted that TAC has approved the re-approval of ACI 117-10
- b) TAC Liaison Eldon Tipping noted that the re-approval of ACI 117-10 is recorded in the TAC meeting notes for the Spring '15 Convention.
- c) Our main committee business is the next revision of ACI 117-XX
 1. Chair Peterson noted that the task group for the revision of ACI 117-XX is being led by a writing task group of Bruce Suprenant, Eldon Tipping, and Chair Peterson.
 2. He noted that we are struggling to gain momentum at the sub-committee level.
 3. The sub-committees were reminded that we do not create tolerances, we collect and report tolerances for other sources within ACI or recognized Industry Associations.
 4. Sub-committees were encouraged to focus on completing three specific objectives:
 - Identify current issues with their section.

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- Compile a list of existing or needed tolerances to be included
 - Complete their list of necessary graphics using ITG-7-09 as a guide
5. Chair Peterson reminded the task group leaders to use ITG-7 as the model when considering graphics needed for ACI 117-XX
 6. Chair Peterson has uploaded many historical source documents to the Committee web page under the “Work Folders” section in the New Business Section
 7. Section 2 Subcommittee, Chair Dennis Hunter could not be present. Dennis provided an email update stating CRSI, has balloted the measuring points document and are working on cleaning up a few things as it pertains to bend tolerances. Dennis also stated that their Subcommittee should be able to give a good update in Denver Chair Peterson noted that Section 2 covers materials other than rebar, such as batching tolerances, and measurement tolerances for fresh concrete properties, which are referenced, and also need to be verified. He stated that some of this Subcommittee’s membership should have expertise in these areas because there are some concrete tolerances may need to be added or updated in this Section.
 8. Section 3 Subcommittee update was presented by Peter Ruttura. The Committee discussed a number of issues raised as questions from the Subcommittee Chair regarding Section 3 tolerances and figures.
 9. Section 4 Subcommittee update by Brett Szabo.
 10. Section 5 Subcommittee issued an update to the Chair through Mike West. They have provided their historical / source documents, namely the PCI Design Handbook, and the PCI MNL-135 Tolerances for Precast and Prestressed Concrete Construction.
 11. Section 7, 13 Subcommittee issued an update to the Chair through Ron Eldridge. They have provided a list of tolerances to be updated.
 12. Section 8 Subcommittee update provided by Mike Hernandez.
 - It was noted that we are having difficult time documenting where the tolerances in this section originated. A discussion also took place regarding whether or not it is still relevant to keep tolerances in the 117 Specification for Heavy Structures such as Dams. Mike noted that he had researched information provided by the Bureau of Reclamation and was also researching specifications produced by the U.S. Army Corps of Engineers to see what tolerances are used for these structures. Bruce Suprenant stated that he had sent several communications to Committee 347, where these tolerances originated, asking about their present relevance, and if they are ever referenced anymore, and has not yet received a specific response. There was also a discussion between Chair Peterson and TAC Representative Tipping regarding how to obtain guidance from TAC as to whether or not this Section could be or should be eliminated from the Guide, and how this should be pursued. TAC Representative Tipping stated that if the Committee determines that this section and any other sections (principally Sections 8, 9 and 10) which are no longer referenced within Industry should be eliminated from the Standard, that they should ballot their removal. At this point (a successful ballot to remove these Sections), TAC would take the matter under consideration.

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13. Section 9 Subcommittee led by Ron Eldridge has not reported any progress. Michael Hernandez indicated that he would check in his conversations with the Army Corps to see what they are using.
14. Section 10 Allen Face noted he took this section because nobody else wanted it. Allen has not found any reference to water conveyance or canal linings in current ACI documents. Bruce Suprenant confirmed that these tolerances originated with ACI 347-78, but that the current ACI 347 is not interested in generating or validating these tolerances.
15. Section 12 Subcommittee update was provided by Brett Szabo on behalf of leader Bryan Birdwell. They are using the tolerances provided by Chapter 4 as a guide to create the basis for expanding the content of this section. Chair Peterson noted that the Committee has received a number of questions through ACI Staff regarding the interpretation of tolerance requirements for slip dowels provided in this Section. It was also noted that there did not appear to be a basis for several changes in tolerances which were made in the 117-10 Specification regarding these. Additionally, Chair Peterson let this Subcommittee know that a number of studies on tolerances for slip dowels have been published including ones by the Federal Highway Works Association, the National Concrete Pavement Technology Center and the Federal Highway Administration. Chair Peterson also noted that the new Specification (117) should include tolerances for diamond plates which are now in common use in pavements and slabs.
16. Section 14 updated provided through Chair Peterson by Ron Eldridge is that based upon feedback from the market, and Committee 346, no changes to this section are necessary.
17. Section 15 Subcommittee update provided by David Buzzelli. The update is that TCA is publishing new tolerance standard this May which we would then be able to use as a basis moving forward.
18. The written task group reports & ongoing work products are being archived in the task group folders on the ACI 117 committee website.
19. The question was asked: “What do we do with tolerances in the existing document that cannot be traced as to their origin or verified by a current ACI committee or other industry association?” The advice from TAC liaison Tipping was to decide at the time of balloting if the committee would like to justify deleting a section or any specific tolerances because the origin or basis of the tolerance cannot be verified.
20. Chair Peterson indicated that he would schedule another web meeting for the task group leaders within about a month to continue our progress.
21. The goal for Denver meeting is to have at least three sections ready for the writing group to start writing in the updated format.

3) New Business:

- a) Chair Peterson played a Leica promotional video of laser scanning for evaluating Ff & Fl tolerance compliance.
 1. An invitation has been extended to a representative from Leica to participate in the ACI 117 committee moving forward.

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2. The goal is to better understand the possibilities for use of scanning to eliminate the “single point” of analysis for acceptance or rejection of an element.
- b) Chair Peterson shared with the committee the performance evaluation system he has used to measure quality as an example of a program that eliminates the single point of evaluation.
- c) Allen Face agreed that the program presented by Chair Peterson represents a pattern of data collection that with two additional calculations could be the advancement that could be used to convert to a true statistical basis for tolerance evaluation.
- d) Allen face continued to offer that data collection has always been the limiting factor and that barrier is breaking down as the scanning equipment becomes more accurate and affordable.
- e) Abstracts are currently being submitted for the Joint Session, on tolerances and deflections, which is being sponsored by Committees 435 and 117, for the Fall, 2015 Convention in Denver.
- f) The floor was opened up for additional new business from the committee:
 1. John Turner of CRSI announced that ACI 301 will be establishing tolerances for welded wire fabric.
 2. We are coordinating with ACI 301 Chair Jim Cornell to see if they have any comments to the current ACI 117 tolerances.
 3. ACI Staff member Matt Senecal was present to support the committee which is greatly appreciated by the Committee.
 4. Chair Peterson suggested that support from ACI staff would be useful in coordinating stair tolerances with ICC and issues in conflict between the NFPA life safety code and the IBC, and a historically inconsistently applied tolerance.
 5. Bruce Suprenant offered that ACI 216 is referenced in the IBC relating to fire resistance in concrete assemblies. There is some discussion over coordinating either UL ratings or other fire life safety fire resistance requirements with ACI 216 from a tolerance perspective.
- 4) **Adjournment** — Meeting was adjourned at approximately 11:40AM.
- 5) **Next meeting is Tuesday, November 10, 2015 at the Sheraton in Denver, CO!**