

Public Works Standards, Inc.
Greenbook Committee
New Materials and Methods Subcommittee
Concrete Ad Hoc Group

www.Greenbookspecs.org

Agenda

Thursday, May 9 at 9:30 AM

CTS Cement

11065 Knott Ave, Suite A,

Cypress, CA

Conference Call Option (800) 309-2899

Conference Code 7670926550

Attendees:

Ken Sears – Headwaters Resources

Steve Martindale - OCPW

Mike Serra – Pacific Aggregates

Matt Jabbari – CTS Cement

Jeff Pollard – Vulcan Materials

Javier Soto (con-call) - OCPW

Don Vivant (con-call) – Sully-Miller

Renato Kich – National R/M

- I. The meeting was called to order at 9:40 AM. Self introductions were made.
- II. Approval of April 11, 2013 Minutes. The minutes were approved as submitted with no noted comments, changes or edits.
- III. Old Business
 - a. Portland Cement Update (Kirk McDonald) – The proposal submitted by Kirk on 4/10/13 will be circulated to Members for review and comment.
Action Item: Members are to review, discuss and prepare to vote at June meeting.
 - b. Update Recycled Plastic Concrete (Don Vivant) – RPC will be re-labeled as RFC “Returned Fresh Concrete.” July 2013 target date for inclusion in Section 90. Max 15% use, with usage areas restricted to curb, gutter, sidewalk, etc. minor concrete/non-structural applications. North Carolina DOT has a specification that has been in place for awhile; CalTrans is looking to review a copy.
Action Item: Don will continue to keep Members up to date on further CT actions.
 - c. Grading Discussion, Percentage Passing Limitations (Mike Serra) - One response has been received.
Action Item: Will be dropped from Agenda due to lack of response from Industry.
 - d. 252NS - Fractured Faces (Don Vivant, David Akers) – Review of suggested revision:
Revise 200-1.2 second sentence: “The portion of the material that is retained on the a 3/8 inch (9.5mm) sieve shall contain at least 50 percent of particles having 3 or more fractured faces as determined by ASTM D5821.”
Action Item: Committee unilaterally agreed to change from CT method to ASTM test method. Assigned Change No. 252NS, Sears to write up and submit to Soto.
 - e. 246NS - ASR Testing Requirements (Ken Sears, Kirk McDonald, Don Vivant) –.

Serra suggested that a survey be sent to Industry in regards to requesting “one additional test method besides ASTM C289 they would prefer to see in the Greenbook.”

Continued discussion as to mitigation methods, and how they fit into the current structure of the Greenbook, and specifically, the Class Table.

Action Item: Akers to send out survey to Industry request additional preferred test method and report to Cmte on survey results. Kirk and Don to submit proposed wording regards to testing and mitigation design criteria.

- f. 244 NS - Pervious Concrete (David Akers) – Was reviewed in Surface. Discussion focused on lower limit compaction. The proposal was agreed and accepted with the lower compaction limit removed altogether. Proposal will proceed to Main/Editorial.
Action Item: Soto to report what action is taken with at Main/Editorial.
- g. 235NS – Steel Fiber (Ken Sears, Jeff Ferris) – Received one comment regarding proposed removal of the wording that does not allow Type III Fibers as a replacement of steel reinforcement. Sears/Ferris responded appropriately with the Ad-hoc’s intentions in regards to removing specific design criteria from the Greenbook. The response appeared to address the concern; the proposal is being reviewed by the Surface Cmte.
Action Item: Soto/Sears to report on Surface Cmte review, discussion, acceptance.
- h. Lightweight Cellular Concrete (Javier Soto) – Received comment from Scott Taylor at Cell-Crete and Jeff Wykoff at CNCA regarding the outdated annular fill specification currently in the Greenbook, and requested an update focusing on LCC. Ad-hoc Cmte replied that we would like to see specific examples of LCC that have been used in the past under Public Works “Greenbook” jurisdiction in order to support a needs assessment/scoping document for inclusion in the Greenbook.

IV. New Business

- a. “D” Aggregate Gradation – Open discussion in regards to successfully accomplishing a “D” gradation. Will continue to keep on the agenda for discussion. It was noted that that the 650-D-3250 currently listed in the Class Table under “Air-Placed Concrete, Method B” will need to be removed during the next revision. The definition of “Method B” (see pg 334, **Sec. 303-2.2**) instructs pumping the concrete from a 3” line, then reducing to a 2” line. The inherent and intended coarseness of a “D” gradation will not allow this pumping configuration or line reduction in any circumstance.
- b. Concrete Specified by Compressive Strength – Question was proposed to the forum regarding the minimum cement (or cement plus SCM) content of concrete less than 3,250 psi designed under **Sec. 201-1.1.4**. The section appears to only address concrete greater than 3,250 psi by stating the minimum cement (or cement plus SCM) content must be 560 lbs. The group agreed that as long as the over-design criteria for field and/or laboratory trial batches was met, there was no minimum cement content mandated for concrete less than 3,250 psi, as designed per this section.

V. Next Meeting – **June 13, 2013 at 9:30am at CTS Cement, 11065 Knott Ave., Cypress.**

VI. Adjourned at 11:00 AM

2013 Meeting Dates

~~January 10~~
~~February 14~~

~~March 14~~
~~April 11~~

May 9
June 13
July 11
August 8

September 12
October 10
November 14