

**GREENBOOK COMMITTEE  
NEW MATERIALS-SURFACE SUBCOMMITTEE  
CONCRETE AD HOC GROUP**

MINUTES  
April 10, 2014

Chairman, Ken Sears called the meeting to order at 9:35 am. The meeting was held in the conference room at:

CTS Cement  
11065 Knott Avenue, Suite A  
Cypress, CA 90630

1. Self-introductions were made by the participants (from the sign-in sheet):

Ken Sears	Headwaters Resources
Steve Martindale	OCPW
Darrell Caddy	BASF
Matt Jabbari	CTS Cement
Vince Perez	CTS Cement
Art Bigelow	CTS CEMENT
Jeff Pollard	Vulcan Materials

**Conference Call Participants**

Jeff Wykoff	CA NV Cement Assoc.
Simeon Scovel	MixOnSite

2. The minutes from March were reviewed and approved as submitted with no changes.
3. Current Business –
- A. Portland Cement Update, McDonald (not present), Sears
- Section review was completed, distributed and approved, with corrected page number references. The page changes document was approved to submit in its current format, however the changes to 201-1.2.1 needed to be resubmitted in strike-out/underline format, needed a cover page and change number assigned. Sears completed the requested changes and submitted to **Surface>Main>Editorial** on 4/18/14 for review. This still needs a change number and cover page.
- B. Change No. 244NS - Pervious Concrete, Sears
- Edits suggested in February were completed by Sears and distributed to the GROUP after the March meeting. Document was approved by **Ad-Hoc** in March by vote. It was sent to **Surface** on 4/14/14, and is now on 30-day hold in their forum for review.

C. Returned Fresh Concrete (Cal Trans), D. Vivant

- No new updates.

D. Change No. 235NS – Steel Fiber, Ferris

- At **ESS** for review and approval. There were edits suggested on 4/16/14. These were discussed and approved as appropriate.

E. Change No. 246NS - ASR Testing Requirements, Group

No new information. Vivant is to submit proposed language; Sears to edit. During our March meeting the following items were discussed:

- It was suggested that expansion per ASTM 1260 should be 0.10 percent at 16 days (not 0.15% as previously submitted).
- It was suggested to add:
  - If aggregate has greater than 0.10 percent expansion at 16 days, or unless otherwise specified by the Engineer, the cementitious portion of the concrete shall contain 25 percent...
- Mitigation: discussion focused on how mitigation will impact the already published class tables. It is agreed by ALL that we do not want to contaminate the class tables, and do not desire to create a new column to the class table. Proposal discussed was allowing a 10% addition of Class F fly ash or approved SCM **on top of** the cement contents defined in the Alternate Class Table (which are 15% SCM) when required to mitigate, essentially creating a total of 25% SCM, without reducing the cement content.

F. Cellular Concrete / Annular Fill, Meyer

Comments were received in regards to:

- There is no mention of aggregates, or section(s) approving aggregates for use.
- Is cement Type II/V accepted for all conditions? Type V for first lift?
- Proposed equipment use may potentially give an advantage to some. Should we have allowances for on-site equipment as well as ready mix trucks?
- Additional references will need to be edited to reflect the current GB numbering format, and optimum placement for this section in the GB.

G. Expansive Cement proposal, Jabbari

No new information. During our March meeting it was suggested to resubmit the changes as:

- Type K Cement to be written as a separate section within the Cement section (as **201-1.2.1(D) Expansive Hydraulic Cement**).
- Type K Component to be written as a separate section in the Supplementary Cementitious Materials section (as **201-1.2.5.5 Shrinkage Compensating Material**). *NOTE: Do not refer to this as SCM, it is too confusing as the GB (and industry) already recognizes **SCM** as referring to a "Supplementary Cementitious Material."*

4. New Business –

- A. **257NS** – On 4/14/14, I responded to **Surface** that **Ad-Hoc** had no additional comments with the proposed aggregate gradation changes in 257NS, or the Lime proposal received from the **Stabilized Base Task Force** moving it from 301-5.2 to 201-8.
- B. The deadline to make the 2015 publication of the Greenbook is June.

5. Our next meeting will be held **Thursday, June 12, 2014**, at **9:30 am**, at the same location (CTS Cement, Cypress).

6. Meeting adjourned at 10:50 am.

Submitted By:

Ken Sears  
Chair

2014 Meeting Schedule

January 9	February 13	March 13	April 10	May 8	June 12
July 10	August 14	September 11	October 9	November 13	No December Meeting