

PMPC Materials and QA STG Meeting Minutes

Date: June 1, 2022

Time: 10:00 to Noon

Location: WebEx

Facilitator:

Attendees: Joe Harline, Nathan Forrest, John O'Mara, Reimond Garcia, David Lim, Eric Fornera, Katha Redmon, Robert Hightower, Hamed Sadati

Not in Attendance:

1. Introductions

- a. Joe: Samir Ead is retiring. Need to contact his group senior and ask for a new representative. Joe went over the old business item; no action needed.
- b. Joe: Dulce had the SD for RSC in pavement presented to EC. The SD received some comments and was basically rejected. Dulce is working on a revised SD to narrow down the topic and address the comments. Joe will follow up with Dulce on progress and update the STG members.
- c. David: we also have testing of RSC on the bin list.

2. Project Updates/Briefing by WG Chairs

- a. Tracking Concrete Mix Designs in DIME (John)
 - i. John: The SD needs to be revised. Planning to submit the revised SD to Joe in a week. The WG is basically preparing a document that illustrates the changes to be made to DIME when the resources are available. Also, identifying the documents that will need change. Work is underway, assuming that the revised SD will be accepted. Cannot publish RSS before DIME is ready, so trying to get things in place for after the lifetime of the WG. Preparing a 1-pager on new requirements. Also preparing a report for management to provide a detailed update on the efforts. Almost done; under review by the WG members.
 - ii. MS1 is finished. MS 2&3 were finished but expanded to include the pre-qualification mix to upload on DIME or on an online application rather than paper submissions.
 - iii. The revised SD will be submitted to STG in a couple of weeks.
- b. Performance Based ASR Mitigation (David)
 - i. David: No major update, there was a resolution meeting with CTG a couple of month ago during which it was decided to focus on the reactive aggregates only. I received a draft letter as the summary of meeting decisions but have not received a final/official decision from CTG yet.
 - ii. Joe: I hear that industry might have some comments on the meeting outcome. Anyways, I don't have access to the draft meeting summary. Please forward it to me.
 - iii. David: Sounds like Ku-Wei also had some comments on the draft document. CTG may want another resolution meeting. Eventually we

should either work on reactive aggregates only, or to cancel the WG effort.

- iv. Joe: An idea was to initially work on reactive aggregate and have a sustainability/performance WG which is on top of the bin list now. Reimond Garcia: Comments for draft specification are being reviewed. WG is on schedule.

c. Blended Supplementary Cementitious Materials (Reimond)

- i. Reimond: The STG comments on MS2 were addressed. Not sure if there will also be a review by CTG
- ii. Joe: CTG will not review the deliverable. It's more of an update on task progress. Need to send MS2 to Kelly for sharing with CTG.
- iii. Reimond: We are working on MS3 on AML document. The draft is with WG members for their review/comment. We have two new industry members. With Samir retiring we will need a new Caltrans member too.
- iv. Joe: Need to see if CTG needs to concur with the proposed Caltrans member. Have to reach out to Samir's boss for introducing a replacement.
 - 1. Nathan: Yes, it says so in PMPC guidelines.

d. Corrosion Specification (Hamed)

- i. Hamed: Still no official news on the SD. We were making progress on MS1 and MS2. But ended up putting a hold on activities to make sure we are doing the right thing as requested in SD.
- ii. Joe: There will be change to the SD. One of the EC members is having comments on the SD. Sounds like we will be changing the SD to "concrete in marine environment". Also, we might end up splitting the work between PMPC and DES.
 - 1. Let's prepare a new SD with new title.
- iii. Hamed: Can prepare a short SD and share with industry lead of the WG, then send to STG. There will be a lot of carry over work to new SD milestones.

e. Neoprene Pads Decision Document (Joe and Nathan)

- i. Joe: Done. Trying to move forward with revision to the CTM 521.

3. Bin List Review

- a. Joe: Performance-based concrete specifications to go to top of the bin list.
- b. Nathan: Now that we expect starting the research with OSU, would be a good idea to start putting together a SD and a WG to lead the adoption of alternative SCMs. Similar approach was taken for the PLC, so when the research results come out, the team would be ready to pick up the work.
- c. Joe: For the RSC, is there going to be focusing on an application other than pavement?
 - i. David: We do the strength and shrinkage testing. Not sure what other testing is meant to be investigated here.
- d. Joe: There was interest to go for the same methodology for acceptance, open to traffic, etc. for RSC and use maturity.
- e. John: Is this the idea of using piezo-electric sensors in RSC?
 - i. David: Interesting topic. We participate in a pooled-fund study on this subject. No need to go through a calibration mechanism like maturity.

- f. Joe: Might need a pilot project.
- g. Nathan/Joe: The topic seems to be related to pavement.
- h. David: Do we have minimum curing requirements for structural concrete?
 - i. Joe: Usually, the minimum curing is affected by open to traffic time.
- i. Joe: Will the need to PEM go away if the performance-based spec for all concretes goes into effect?
 - i. Nathan: Yes, but sounds to be too big of a subject for only one WG. Let's leave them in bin list.
 - ii. We might be able to combine Class C fly ash and alternative SCMs.
 - iii. Work on neoprene pads is already over, we can remove it from bin list.
- j. Nathan/Joe: Several items have been on the bin list for a very long time, and never made it as a top priority. Might be better to remove them or at list mark them as de-commissioned and move to bottom of the list: hot weather concrete, sealers and hardeners, smog eating concrete, mineral fillers in concrete.
- k. Nathan: We can vote and rank the topics to re-organize the bin list. Can share a google spreadsheet or email the Excel file for voting.
- l. Eric: How soon will the SB778 pass?
 - i. Nathan: Probably this year, and it will have some tight deadlines to meet.
- m. Eric: We are routing the natural LWA for review. Does it affect the LWC on bin list?
 - i. Joe: Not sure.
 - ii. Joe: Let's try and finalize the bin list by Friday June 24th.

Action Items from [meeting name] on [date]:

1.

For PMPC meeting minutes please visit:

- EC Meetings: [Pavement & Materials Partnering Committee \(PMPC\) Meeting Minutes | Caltrans](#)
- ATG Meetings: [Asphalt Task Group | Caltrans](#)
- CTG Meetings: [Concrete Task Group | Caltrans](#)