

PMPC Executive Committee/Concrete Task Group Meeting Minutes

Date: September 15, 2022

Time: 8:30 am- 10:00 am

Location: Webex Meeting

Facilitator: Tom Pyle

Attendees: Tom Pyle, Raymond Tritt, Gudmund Setberg, Brandon Milar, Charley Rea, Kuo-Wei Lee, Tim Greutert, Joseph Dongo, Mark Hill, Kelly Lorah, George Butorovich, Maged Armanuse, Keith Hoffman, Chu Wei, Ian Sun Chee Fore

1. Introductions/Review Agenda
2. Action Items from PMPC EC + CTG meeting held on 06/16/2022:
 - a. Review Bin List
 - i. **Action Item:** STG needs to be working on a new bin list – there is a drafted list (June 2022) – to go over the priority; will schedule a meeting in a couple of weeks. **DONE**
 - b. Concrete Related Research and Spec Development Outside PMPC (Reference Document)
 - i. (Charley) Caltrans provided their list of “other,” non-PMPC, concrete work that is going on at the Department, including research, other areas of the department, and the districts (note: after the meeting, I noticed there is an effort to update mass concrete specs, so I have inquired why that is not a PMPC project).
 - ii. District 8 Innovation Projects
 1. More robust training for CT and Industry staff
 - a. Field staff
 - b. District designers
 2. Any spec changes that will come in a form of a scoping document or decision documents
 - a. **Action Item:** Maged will send the updates to Kelly (**Follow up in 2 weeks with Tim**)
 - c. UCPRC
 - i. Working on the next contract – road map and have been working with Industry
 - ii. **Action Item:** EC meet with UCPRC for the 5-year plan – to have tasks align with PMPC
 1. Tom will set up a meeting with UCPRC – schedule in the next month. **DONE**
3. Urgent Issues (All):
 - a. Keith - What to go over the bin list in more detail
4. CTG Work Products
 - a. Tracking Concrete Mix Designs in DIME:
 - i. This is 3rd time to get this data into DIME. Still in review at the CTG level. Very close to getting it completed, they have done a lot of prep-work, requires everyone on the work group to get this done.
 - ii. The updated scoping document will head to the EC next week. It’s been 6 months or longer to get this new scoping document done.
 - iii. No need for pilot projects or nSSPs, it will be a spec change - it’ll be a requirement for putting information in DIME. There is a separate team for DIME implementation (the implementation has been taken out of the scoping document).
 - iv. There is an effort to actively look for resources and making sure that resources for DIME are available in the prioritization of the work being incorporated for the implementation.

- v. This workgroup has a clear expectation of vision for what they want out of DIME and there's a shared awareness between the DIME team and this workgroup team on what that success looks like.
 - b. Performance Based Alkali-Silica Reaction (ASR) Mitigation:
 - i. Scoping Document has been routed to CTG for signatures, will then go to EC for approvals. From these documents lead to conversations about Sustainability and Durability, Keith wants to refocus and get everything right and have a meeting on October 5th, so they can integrate all these scoping documents that have to do with SCMS mix design into one.
 - ii. Mark - Going into the scoping document it was industries perspective that we could address durability and sustainability and still produce an ASR document, but because it was so integrated into Caltrans, CTG had to step aside and just look at one side of the aggregates and find a way to address durability and sustainability and even define what subjects are important to Caltrans.
 - c. Blended Supplementary Cementitious Materials (SCMs):
 - i. Working group is on track
 - ii. Final report is 95% in the next month or so.
 - iii. Tim - Does the working group have an opportunity to present to the CTG?
 - 1. Keith - Yes, and can also present to EC. Can also present to the DME meetings. Success stories.
 - d. Replacing the Compaction Method to Determine the Application Rate of Lime for Soil Stabilization:
 - i. Final report is done, route for signatures to the CTG for review and approval.
 - 1. Then will be routed to EC for approval.
 - ii. Tim - Does the working group have an opportunity to present to the CTG?
 - 1. Kuo-Wei - can be done.
 - e. Replacing the R-Value Testing for Unbound Materials with an Alternate Test Method:
 - i. Work group is currently on hold pending the testing results is done. Working with UCPRC to get the testing done.
 - ii. UCPRC is working with Industry for testing material.
 - iii. The team narrowed down to a handful that UCPRC is doing more in-depth correlation study.
 - iv. For Caltrans to use this replacing the R-Value testing method we have to do our own testing, so they put in different methods to apply this, however, we need some test data to see where with the coalition.
5. Scoping Documents
- a. MQA STG Bin List
 - i. On the list, there are performance specification as well as alternative SCMS including pipes and fly ash - we have additional research going on for other things that we're looking at other things that UCPRC is looking at sustainability and durability and item 8 - Performance Engineering Mixtures Including Optimized Aggregate Gradations
 - 1. Have them under the same umbrella
 - 2. Work plan that integrates what we're doing and how these work products all tie together.
 - ii. Meeting next month to go over these scoping documents for moving forward. Get a work plan before working on these work products and take a more cohesive approach. With these specific decision documents, this will help with clarifying and avoiding future misunderstandings in the future.
 - b. Evaluation and Improvement of Concrete Pavements with Rapid Strength Concrete
 - i. This was briefed back to the EC back in November, wasn't clear at the time, CTG wants to go back and improve the specs and scoping document.

- ii. Tom and EC would like to see a scoping document.
 - c. Concrete in Marine Environment
 - i. Received more comments, it was original called corrosive
 - ii. Keith - We need a spec for Concrete Mix.
 - iii. This would be part of a larger effort under the DES under Joe Harline.
 - d. Concrete Pavement Specified by Fixed Value of Compressive Strength
- 6. Decision Document
 - a. Lime, Cement, or Cement-Kiln Dust Modification of Pavement Foundation
 - i. Kuo-Wei - Deepak has been drafting a decision document and has been working with Marcos on it. Marco has been very busy.
 - ii. Waiting for the SOP to be approved to use the latest decision document format. SOP has been approved and now working on.
 - iii. Would eliminate the Cement-Kiln Dust from the equation, mostly focus on Lime and Cement. Need to clarify in the spec.
 - b. Tie Wires in Dowel Bar Assemblies
 - i. Working on the draft of the decision document - some REs have to cut the wire – baskets actually racking - was a concern on the mid scan that if you have a diagonal bracing wire that shows that changes the readings on the mid scan so its encourages to not cut the wire
 - ii. Waiting for the SOP to be approved to use the latest decision document format. SOP has been approved and now working on.
 - iii. George - cutting the wire makes it more flexible, it's a waste of money to cut these bars.
 - 1. Horrible results from the MIT scans
 - iv. Reevaluate the whole cage – another approach - get symmetry so that we can get the best in reading and give maybe more lateral stability; some diagonal bracing that's symmetrical so that the readings from the basket will be equivalent.
 - v. Tom – data driven decision; this should be a work group
 - vi. **Action Item:** Tom will look for the old report/data and if have, send to the group.
Complete – could not find
 - c. Surface Skid Resistance Test for Concrete Pavement Acceptance
 - i. Proposed to take the skid testing requirement out for new pavement operations
 - ii. We're the only state requiring skid resistance testing.

Due to time, meeting has ended.

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](#)