

PMPC Executive Committee/Concrete Task Group Meeting Minutes

Date: March 30, 2023
Time: 8:30 am- 10:00 am
Location: Webex Meeting

Facilitator: Tom Pyle

Attendees: Tom Pyle, Raymond Tritt, Christa Siegenthaler for Gudmund Setberg, Brandon Milar, Charley Rea, Allen King, Tim Greutert, Joseph Dongo, Mark Hill, ~~Kelly Lorah~~, Keith Hoffman, ~~Chu Wei~~, George Butorovich, Ian Sun Chee Fore, Hadi Nabizadeh, Sajia Sakhi, Mehrnaz Emami

1. Introductions/New Members/Review Agenda
 - a. Hadi Nabizadeh is Doug Mason's replacement.
 - b. Kelly being out – Sajia Sakhi and Mehrnaz Emami will help track with signing of documents
 - c. Allen King – Acting Office Chief for Concrete Pavements
 - d. This is Christa's last meeting. Sudhakar Vatti will be the Bridge Design Chief.
2. Action Items from PMPC EC + CTG meeting held on 12/15/2022:
 - a. Action Items Already Completed
3. Urgent Issues (All):
 - a. Working on improving document tracking
 - i. Keith: Kelly is out on Sick Leave and that has impacted METS on the consistency of tracking documents.
 - b. Industry – no urgent issues.
4. CTG Work Products
 - a. Tracking Concrete Mix Designs in DIME (Keith)
 - i. All milestones are complete. Revised SD is being addressed. STG is reviewing the changes. Once updated TG will be moving forwarding the document to EC.
 - ii. Rollout through the districts: incrementally getting the districts up to date on DIME. 5 different tests for Concrete and Asphalt. At this point, districts are not using it.
 - iii. Effort to create a database of all these mixes for future projects. This will help with tracking mixes for EPDs.
 - iv. Keith: Mixed Designs on DIME-all milestones proposed are complete. Final Report from subtask group has been addressed and subtask group is reviewing the changes. Working on Final Report and Scoping Document. Incrementally getting all districts up to date on DIME. We did have a pilot many years back where we did QA and QC for Concrete, which is now a requirement. This new process will be more detailed.
 - v. Tim: we have 5 different tests for concrete, 5 different tests for asphalt. JMF can test mixed designs. Challenge has been coming up with that unique number that we tracked that can be approved. The goal is to come up with a database of these mixes to be used in the future.
 - vi. Revised Scoping Document has been posted.
 - b. Performance Based Alkali-Silica Reaction (ASR) Mitigation (Mark)
 - i. Impasse resolved and rewrite SD. EC signed SD and is posted onto the website.
 1. Tom - would like to have verification testing and provision on more testing and SCM.
 - a. METS availability to do testing – QA is discretionary of the state materials engineer – depending on the location and source will do verification testing. There is only 1 lab that can do the testing.

- b. Mark- we do verification testing on this. Request that we're going to need to have to work this through and that it's not finalized with lane in terms of how that would occur. But my request is that we do verification testing. Even to the point where if we do have aggregates, that we go through this process and if we discover/need more supplementary cementitious material that would also be part of the process.
 - c. Keith: depending on location and source we likely will do verification testing
 - d. Limited to how many tests we can do in that concrete lab
 - e. To get on innocuous list we are using AASHTO credited labs
 - c. Blended Supplementary Cementitious Materials (SCMs)
 - i. CTG - Will review and discuss. **Action Item:** CTG schedule a dedicated SCM 30-minute meeting with EC. Hear from SCM industry, receiving a briefing from Task Group. Implementation.
 - d. HIATUS: Replacing the R-Value Testing for Unbound Materials with an Alternate Test Method (Allen)
 - i. Resource issue – equipment needs – UCPRC helping with testing. \$35K for equipment, UCPRC supposed to be coming up with test method, METS was asked to purchase the equipment. Does UCPRC have the equipment available so testing can be done by Oct 2023?
 - ii. **Action Item:** Allen and Keith - Task Group will need to have a meeting to discuss how the testing will be done and will METS need to have equipment – implementation – test method, then provide EC with an update.
 - iii. Need to revisit the October deadline, particularly if testing equipment is not readily available.
 - 1. Allen – The process of signing the new contract with UCPRC may also delay this effort.
 - iv. Raghu and Deepak can provide update on the impacts on HDM and CalME.
 - v. Is R value specified in the construction manual? Moved away from the R value in construction and mostly used in design
5. Scoping Documents
- a. Full: Specification Improvement of Concrete Pavements with RSC (will be discussed in post meeting) (Allen)
 - i. Signed, approved, and posted to the website.
 - b. Short: Concrete in Marine Environment (Keith)
 - i. 3/29/23: Comments were provided by EC in February 2023. The SSD was revised accordingly and routed for review by industry chair of the WG, as well as Payam Vosoughi as the new WG chair. The revised SSD is sent to STG for their review on 3/23/2023. Once completed will go to TG.
 - 1. **Action Item:** Keith and Tim will PMPC onboarding Payam Vosoughi
 - ii. Rob Rees is on contract to help the DES effort for increasing the structure corrosion specs
 - c. Short: Concrete Pavement Specified by Fixed Value of Compressive Strength (Allen)
 - i. Allen – Short SD was approved. Developing full scoping document.
 - ii. Ian – Short SD was posted in August 2022.
 - d. Short: Use of Low Nuclear Density Gauge to Determine Compaction of Unbound Materials (Allen)
 - i. Allen – Short SD was approved. Developing full scoping document.
 - ii. Ian – Short SD was posted in October 2022.
6. Decision Document
- a. Lime, and/or Cement to Dry Up Soils

- i. Complete; Signed by CTG.
 - ii. Implementation
 - b. Tie Wires in Dowel Bar Assemblies
 - i. Implementation
 - ii. **Action Item:** TG lead to update 12/08/2022 comment about EC approval requirement.
 - c. Surface Skid Resistance Test for Concrete Pavement Acceptance
 - i. Legal has made the decision. Implementation
 - ii. Joseph will be setting up meeting to brief EC on spec changes and implementation
- 7. Review bin list (due to time, not covered; files will be updated)
 - a. CIP STG
 - b. Foundation STG
 - c. MQA STG
- 8. Open Discussions
 - a. Sustainability Spec and working on EPD Pilot Projects – Dominika Ercolini spearheading – would be good to have successful pilots to discuss before legislature.
 - i. Does PMPC want to create a separate joint working group – like Smoothness?
 - 1. Intent of the pilot projects with EPDs – working group could determine.
 - 2. Tom – Consultant (Pavement A&E contract) might be able to support.
 - ii. Create a road map?
 - b. **Action Item:** have an ongoing discussion about EPDs
- 9. Action Item
 - a. **Action Item:** Hadi: This will be Christa’s last meeting; new replacement will start next month. Hadi will update invites. Tim will provide contact information - New Bridge Design Chief is Sudhakar Vatti. **DONE**
 - b. **Action Item:** CTG schedule a dedicated SCM 30-minute meeting with EC. Hear from SCM industry, receiving a briefing from Task Group. Implementation. **TG Action Item**
 - c. **Action Item:** R-Value - Allen and Keith - Task Group will need to have a meeting to discuss how the testing will be done and will METS need to have equipment – implementation – test method, then provide EC with an update. **TG Action Item**
 - d. **Action Item:** Keith and Tim will PMPC onboarding Payam Vosoughi
 - e. **Action Item:** Tie Wire Dowel Bar Update - TG lead to update 12/08/2022 comment about EC approval requirement. **TG Action Item**
 - f. **Action Item:** Ian and Hadi to schedule OCCS 1-hour meeting with EC, ATG and CTG. **DONE**
 - g. **Action Item:** TG/STG leads to update bin lists and monthly update spreadsheet. **TG Action Item**
 - h. **Action Item:** EC – agenda item - have an ongoing discussion about EPDs. **DONE**
- 10. Roundtable
 - a. Charley - Performance specs to be an ongoing discussion.
 - b. Keith - Sustainability Performance specs would like Christa to be a part of the discussion, performance specs tied to sustainability efforts should be on the next agenda
 - c. PMPC - Continue the weekly status tracking.
- 11. Upcoming Meetings
 - a. EC+CTG Meeting: June 15, 2023, 8:30-10:00am

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](#)