

PMPC Executive Committee/Concrete Task Group Meeting Minutes

Date: March 17, 2022
Time: 8:30 am- 10:00 am
Location: Webex Meeting

Facilitator: Tom Pyle

Attendees: Tom Pyle, Doug Mason, Raymond Tritt, Gudmund Setberg, Jeremy Peterson-Self, Brandon Milar, Charley Rea, Kuo-Wei Lee, Keith Hoffman, Joseph Dongo, Mark Hill, George Butorovich, Kelly Lorah

1. Introductions/Review Agenda

- I. Group did a quick overview of the agenda after meeting started.

2. Action Items from PMPC EC + CTG meeting held on 12/16/2021:

- I. Keith to check what materials the Blended SCM working group is looking at blending. (Keith) *We have research we are looking at. Natural pozzolans, fly ash, ground glass pozzolans and other materials.*
 - a. Keep Gudmund in the loop on the proposed blended SCMs. He needs to make sure the communication line with structures design is in-line with PMPC work.
- II. Tim, Tom, and Keith to talk after about Class C fly ash and the issues with them. (Tim, Tom & Keith) *Complete. Keep Tom updated.*

Action Items from PMPC EC + CTG meeting held on 09/16/2021:

- I. Task groups to incorporate benefits and efficiency to the best they can in the bin lists for the proposed work products and in scoping documents. (STGs) *Completed.*
 - a. **Action Item: Add item to SOP update.**

3. Urgent Issues (All):

- I. No urgent issues.

4. CTG Work Products

- I. Tracking Concrete Mix Designs in DIME:
 - a. The working group is making good progress developing the inputs for DIME.
 - b. Removed Joe Harline from working group and placed John O'Mara as Caltrans lead.
 - c. Limitation of resources for DIME, so working on inputs for DIME to be programmed when funds are available.
- II. Impact of Portland Limestone Cement (PLC) on Concrete Performance
 - a. Final report sent to task group to review. Final report summarizes what was already done.
 - b. We would like to be able to track usage of PLC in the upcoming years to measure usage and reductions of GHGs.
 - c. George: California Nevada Cement Association might be the avenue to track the PLC usage.
- III. Performance Based Alkali-Silica Reaction (ASR) Mitigation:
 - a. Milestone #2 is 99% complete. Working group is at an impasse and working through the escalation process.
- IV. Blended Supplementary Cementitious Materials (SCMs):
 - a. Working group is on schedule, milestone #2 almost complete.
 - b. Tom: What are the SCMs being blended?
 - i. Not sure what the working groups is looking at blending.
 - ii. **Action Item: Keith to check what materials the working group is looking at blending.**
 - iii. Charley: Is the work in this working group going to be affected by the impasse in Performance Based ASR Mitigation working group? Unknown at this point.
- V. Replacing the Compaction Method to Determine the Application Rate of Lime for Soil Stabilization:

- a. Milestone 2 is complete.
- VI. Replacing the R-Value Testing for Unbound Materials with an Alternate Test Method:
- a. Milestones 1 and 2 are complete, on schedule.
 - b. Tom: How far out are we looking for equipment needs? We have Mechanistic Empirical (ME) needs and some changes to test methods for CalME there are coming.
 - c. Keith: We know it is coming, just don't know the impacts yet.
 - d. Tim: Are you asking how much lead time needed for the equipment purchases? We would need to figure out testing frequency and needs to put together a list of equipment for Caltrans and our labs; but industry's labs will have to purchase the equipment too.
 - e. These efforts are not small or a one-year effort with equipment, training, specification development, and guidance. Large effort with coordination to complete. We need a road map to see what the issues are and where the challenges are in how we are changing our business processes.
 - f. Chu: The Infrastructure Bill, not sure how much money is for pavement in the bill and how it will change your budgets and impact Pavement or Materials staffing.
 - g. Tim: Thank you Chu, will follow up with you on how we can obtain funds for equipment and people from the Infrastructure Bill.
- VII. Review Closed/Tracking List
- a. No issues discussed.
5. Review of Bin List (Keith Hoffman):
- I. Concrete STG bin list:
 - a. The top two priorities scoping documents should be sent to the CTG soon.
 - II. Foundations Bin list:
 - a. Priority #3 Use of lime/cement for drying up subgrade is looking to use the decision document process.
 - III. MQA STG updated bin list was presented:
 - a. Corrosion specification scoping document should be available in the next week or so to the EC. It started in Division of Engineering Services (DES) technical committee and the DES group will be the same Caltrans and industry members in the PMPC.
 - b. Neoprene caps would be a good candidate for the decision document process.
 - c. **Action Item: Tim, Tom, and Keith to talk after about Class C fly ash and the issues with them.**
6. Decision Document for RCP (Keith Hoffman):
- I. Industry's Charles Stuart brought to Caltrans attention industry's concerns with continuously reinforced concrete pavement (CRCP) with design and construction staff with the confusion of CRCP specification and when to use it. CTG wants to work on some clarity to manual and training. Document would coordinate with Design and Construction for training and manual update.
 - II. Tim: What would success look like?
 - a. Keith: A clear communication of what the expectation is and a manual change.
 - III. We need clarity of the expectation for both Caltrans and industry.
 - IV. Tim: Focus is on decision made in design phase that impacts construction.
 - a. Depends on district, we are still trying to ferret out where the issues are.
7. Open Discussion:
- I. Tim: PMPC winter workshop give us the good, the bad and the ugly on what you heard.
 - II. Keith: A lot said it was the most helpful meeting they attended.
 - III. Ken: Would have been beneficial when I first started with the PMPC.
 - IV. Group felt workshop went well.
 - V. This is Ken's last PMPC meeting before he retires at end of December and everyone thanked him for his service to the PMPC.
8. Decisions made/Approvals given by EC:
- I. None
9. Action Items
- III. Keith to check what materials the Blended SCM working group is looking at blending. (Keith)

IV. Tim, Tom, and Keith to talk after about Class C fly ash and the issues with them. (Tim, Tom & Keith)

Next Meeting: June 16, 2022
08:30 am – 10:00 am