

PMPC Executive Committee/Concrete Task Group Meeting Minutes

Date: June 18, 2020

Time: 8:30 am-10:00am

Location: Phone Bridge Conference Call

Facilitator: Sergio Aceves

Attendees: Sergio Aceves, Doug Mason, Ray Hopkins, Roberto, Lacalle, Brandon Milar, Charley Rea, Dolores Valls, Kuo-Wei Lee, Keith Hoffman, Ken Solak, Cortney VanHook, Chu Wei, , Kirk McDonald, Mark Hill

1. Introductions/Review Agenda

- I. Sergio thanked group for continuing to meet during the uncertainty of COVID-19 and stated we will be doing virtual meetings for a while utilizing Webex or phone bridges until directed otherwise.

2. Action Items from 3/19/2020 PMPC EC + CTG meeting (All):

- I. Kuo-Wei is to review scope of work with Dulce on the proposed task, Best Practices for Designing Long Life Concrete Pavements. (Kuo-Wei) Completed
- II. Ken to send update on Caltrans' MPQP effort in next week. (Ken Solak) Completed

3. Introductory Urgent Issues (All):

- I. Ken S: Construction Procedure Directive was issued today, June 18, 2020 for contactless weighmaster certificates.

a. Action Item: Ken to send comments matrix to Brandon Milar and Charley Rea.

4. CTG Work Products

I. Evaluate the Revised Concrete Pavement Smoothness Specifications (Kuo-Wei Lee):

- a. Working group is still waiting for construction data to come in for smoothness evaluation interim report.
- b. Brandon M: May want to request delay for milestones 3, 4, and 5 to have a larger data set behind the interim report.
- c. Ken S: Construction issues a CPD in May on smoothness which should aid us in obtaining additional smoothness data for projects.
- d. Keep milestones 6, 7 and 8 dates as they are, final report is over a year out. We will set the right expectations for deliverables from these interim milestones.

II. Precast Concrete-Phase II Enhance Jobsite Quality (Kuo-Wei Lee):

- a. Working group is meeting monthly and is on track to complete specifications by the end of June.

III. Concrete Mix Design Naming Protocol (Keith Hoffman):

- a. Kirk M: Redi-Mix Concrete producers had some issues with the specification when it came through for review.
- b. Nathan and Brett are working out the issues on tracking complications in the working group.
- c. Keith H: I think it is a miscommunication of what we are asking for, it is not the batch ticket number we are talking about. Hope to have this resolved in a month or so
- d. Need to increase our communication within Caltrans and Industry in our efforts.
- e. Milestones may slip as we resolve out the issues.

IV. Recycled Crushed Aggregate of use in Cast In-Place Concrete Pavement (Kuo-Wei Lee):

- a. Working Group has completed a draft specification for two-lift concrete pavement incorporating coarse RCA in bottom lift and recommended to use as NSSP in section 40 and pilot in few projects for additional information to refine specification
- b. Chu W: FHWA has not seen this specification yet.

- c. The specification is a NSSP and typically we don't circulate NSSPs thru FHWA.
 - d. **Action Item: Kuo-Wei to send specification to Chu Wei for FHWA review.**
- V. CT 523 Method of Testing for Flexural Strength of Concrete (Keith Hoffman):
- a. April RSS released and CTM posted. Jackie working on developing final summary report.
 - b. Sergio: Will this project go to the Closed/Tracking List at the next meeting? Yes
- VI. Closed/Tracking List
- a. Use of 4x8 Cylinder or Compressive Strength Testing (Keith Hoffman):
 - i. Caltrans created sulfur caps for cylinders, better quality than what was available to buy.
 - b. Crackless Decks (Keith Hoffman):
 - i. Issues with the fiber reinforcing not mixing uniformly and creating balls of fiber when tined.
5. Review of Bin List (Keith Hoffman):
- I. Sub task groups have been asked to work on their bin lists, scoping documents for the top four work products on bin lists were submitted to and approved by CTG and then sent to EC for review and approval.
 - II. There will be another work product added to the bin list for Precast STG, ahead of the Precast Tolerances.
 - III. Precast tolerances will be bumped out another year.
 - IV. Precast-Phase III recommended to be delayed a year after discussion of scoping document.
 - V. EC recommends the STGs to start replenishing bin list items as the scoping documents drop work products off the CTG's bin list.
 - VI. Keith said CTG is working with STGs on items for bin list, should be available in next two months,
6. Review Short Scoping Documents:
- I. Concrete Pavement Acceptance Based on Compressive Strength (Attachment 4)
 - a. **EC had no issues and will approve scoping document.**
 - II. Evaluating Maturity to Estimate Open to Traffic Strength of Concrete Pavement (Attachment 5)
 - a. **EC had no issues and will approve scoping document.**
 - III. Precast Concrete Pavement – Phase III Installation Guide (Attachment 6)
 - a. Discussion on length of time (2 years requested) for work product.
 - b. Ray: Not a lot of milestones listed in scoping document to track progress and no review periods built into milestones.
 - c. Consensus among EC and CTG was to wait a year on this scoping document to see how the new specification performs before tackling the guide and get some project information.
 - d. Keith: CTG proposes substituting a new Precast bin list item with a scoping document from the Precast STG to replace the Phase III . Should be available for the EC to review and approve in a month or so.
 - e. **EC did not approve this scoping document for signature and recommends waiting a year to resubmit.**
 - f. **Action Item: CTG to submit new scoping document to EC to replace the Phase III scoping document for Precast STG.**
 - IV. Impact of Portland Limestone Cement (PLC) on Concrete Performance (Attachment 7)
 - a. Keith: The Concrete Steering Committee members are also on the team for the Type 1L work product.
 - i. Added SCMs to scoping document but SCMs may fall off due to milestones/deliverables.
 - b. Kirk: Research work at Oregon State University is focused on Type 1L but it is also looking at SCMs.
 - c. Fail safes were built into the scoping document's milestones that if the SCM portion is falling behind, SCMs will be dropped from current work product and a new scoping document will be created for SCMs. So, focus is on the Type 1L.

- d. Concerns with OSU schedule for delivery with COVID disrupting the schedule.
 - e. **EC had no issues and will approve scoping document.**
- V. **Action Item: Doug to route the three scoping documents to EC for approval for electronic signature.**

7. Round Table:

- I. Charley: Just have two things, first is the Closed/Tracking list, I didn't see it in the attachments. It is part of the Work Product Status at the end of the active work products. Second question is, When do products move to the Closed/Tracking list. Usually at the last milestone and only if they need to be tracked for pilot projects or Caltrans' internal stakeholder review/specification process.
- II. Keith: In July, as part of the EPD effort, Jackie Wong wants to come up with best practices and maybe some pilot projects to test incentive/disincentive specification options instead of go/no go option. This effort is not under the PMPC, but the PMPC should be aware of the effort by the Department as we are looking ahead in case of a legislative mandate.

8. Decisions made/Approvals given by EC:

- I. EC recommend delaying scoping document for Precast Pavement Phase III a year.
- II. EC approved scoping document for Concrete Pavement Acceptance Based on Compressive Strength.
- III. EC approved scoping document for Evaluating Maturity to Estimate Open to Traffic Strength of Concrete.
- IV. EC approved scoping document for Impact of Portland Limestone Cement (PLC) on Concrete Performance.

9. Action Items

- I. Send comment matrix to Brandon Milar and Charley Rea. (Ken Solak) Completed
- II. Send RCA NSSP to Chu Wei for courtesy FHWA review. (Kuo-Wei Lee) Completed
- III. CTG to submit new scoping document to EC to replace the Phase III scoping document for Precast STG. (CTG)
- IV. Route the three scoping documents to EC for approval for electronic signature. (Doug Mason) Completed