

PMPC Concrete Task Group (TG+STG Chairs/Leads) Meeting Minutes

Date: December 9, 2020

Time: 10:00 AM – 12:00 PM

Location: Webex/Conference Call

Facilitator: Keith Hoffman

Attendees: George Butrovich, Bruce Carter, Nathan Forrest, Dulce Feldman, Mark Hill, Keith Hoffman, Kuo-Wei Lee, Patrick Lo, Kelly Lorah, Deepak Maskey, Douglas Mason, Samir Ead (for Ken Solak), Don Vivant, Chu Wei, Jacquelyn Wong, Arshad Vali, Dominika Pekala, Venkatesh Iyer

Not in Attendance:

1. Introductions/Review Agenda/Past Action Items
 - a. Send out org chart for final review – Kelly – 11/17/20 – **Complete**
 - b. Create the CTG 2021 schedule – Kelly – 11/17/20 – **Complete**
 - c. Send out the list of impacted (by flyash shortage) projects – Patrick/Kelly – 11/17/20 - **Ongoing**
 - d. Contact Doug regarding the SOP – Kuo-Wei – 11/17/20 – **Complete**
2. M&QA STG Updates
 - a. Type 1L Cement
 - i. Patrick - On schedule/on track. Last deliverable (1b) sent to STG at end of November. WG incorporating comments from STG. Interim reports from OSU are still delayed, but research on schedule. They are also going to consider 1T cement.
 - b. Tracking Concrete Mix Designs
 - i. Patrick - Dominika is the chair and working to develop the full scoping document for TG review. One industry member will be replaced. Tom Collins will be retiring by the end of the year and will need to be replaced.
 - ii. Keith – We were going to tap into DIME for naming mixes, but how are we going to do this in the future?
 - iii. Dominika – We have a draft that includes looking into that.
 - iv. Dulce – Do we have a way to track mix design in DIME?
 - v. Patrick – We have mix designs in there, but there's no guarantee they're unique. We have our own internal database we can search.
 - c. Performance based ASR testing & Allowing blended SCM
 - i. Patrick - The scoping documents were sent out late yesterday to include performance-based testing. We do not allow pre-blending the

SCM to be held in a silo. We are working on allowing blended SCMs to be stored.

d. RCA for Use in CIP Concrete Pavement

i. Closed

e. 4x8 Status

i. Patrick – The CPD is posted. On track to post CTs by 01/04/21. They are being routed for concurrence.

ii. Keith – Internal logistics are being handled, right?

iii. Patrick – Yes

3. CP STG Updates

a. Evaluate the Revised Concrete Pavement Smoothness Specifications

i. Dulce – We are on track. We were able to get approval from the CTG and EC to drop the interim report. We don't have data for the new spec. There is are precast projects in District 4, 5, and 7. Deborah is tracking all change orders. We haven't paid anyone their incentive money yet.

b. Concrete Pavement Acceptance Based on Compressive Strength

i. Dulce – On track. The first milestone has been completed. Caltrans is the only state that accepts on solely flex strength.

c. Evaluating Maturity to Estimate Open to Traffic Strength of Concrete Pavement

i. Dulce – On track. The first milestone has been completed. The spec is difficult to write, but Deepak and the group are developing a table with detail on the different decisions we need to make before writing the spec.

ii. Keith – Are on track for our milestones?

iii. Dulce – Yes. The next one is due in March and we are working towards it now.

iv. Keith – What about scoping documents?

v. Dulce – December is busy, so none at the time. But we will start working on developing scoping docs well before the next FY.

vi. Keith – I especially would like to get the sustainability one on track soon.

4. PF STG Updates

a. Bin List Creation & Scoping Document Creation

i. Deepak – First STG meeting was on 11/30. A draft bin list is created and draft scoping documents are being circulated within the TG.

ii. Keith – By next week, I would like to know the top 3 priority items.

iii. Deepak – We already have it prioritized, but it's still just a draft.

iv. Bruce – What are the top priorities?

- v. Deepak –
 - 1) Alternative testing to R-value for unbound base materials
 - 2) Alternative compaction method to determine application rate of lime
 - 3) Use of lime/cement for drying up subgrade
- vi. Don – We are working on a scoping doc as well.
- vii. Kuo-Wei – Since the STG is created for one-year, will the scoping docs be accomplished in one-year.
- viii. Keith – It started slow, and we might not make in a firm one-year.
- 5. MR Report – New Test Methods Towards Performance Engineered Mixtures (PEM) Design
- 6. Roundtable / Review Action Items / Next Meeting
 - a. Keith – The focus is moving ahead on the STG work. We are going to start up the Fly-Ash study. We did it 4 years ago and we will utilize the original group with additional members.
 - b. Kuo-Wei – Has COVID affected construction projects?
 - i. Samir – No
 - ii. George – New CalOSHA rules may cause issues, but we're working with them.
 - c. Mark – We need to move forward with 90-4 for short term mitigation for SCM shortages.
 - i. Bruce – I was provided with a draft ASR mitigation for current fly ash shortage. Section 90-4 revision may be a good stop gap for now. Can we have a document drafted for guidance?
 - ii. Patrick –The draft document is for the short term. The two scoping documents are for long term changes to the spec. The guidance document was pulled directly from 90-4. We're still having internal discussions.
 - iii. Jacquelyn – We're discussing short term. We're also researching other options that would be fair between contractors.
 - iv. Bruce – This is penalizing Caltrans project contractors. We have to look at a solution that's good for everyone. There are a lot of non-Caltrans projects that use fly-ash. We're not just talking about Caltrans only.
 - v. George – We have to think about SCM usage. We're using more than we need to and we need to look at lowering the usage.
 - vi. Patrick – Section 90-1 mirrors 90-4, but with a change in the "x" value. This would allow contractors to place 100% cement concrete with no SCMs
 - vii. Bruce – SCMs are not available.

- viii. Patrick – There are 50/55 projects on the list and all but 2 have found alternate materials or sources to use.
- ix. Bruce – Where's the sustainability on shipping fly-ash so far?
- x. Don – Industry will make financial decisions to not do Caltrans projects due to the SCM needs. A stop-gap needs to be put in place immediately.
- xi. Keith – We need to review the equations and discuss with everyone involved.
- xii. Don – 20 years ago, Caltrans did not use fly-ash.
- xiii. Keith – The spec allows for other materials.
- xiv. George – If we go to other SCMs, it's almost double the amount of SCM that needs to be used. The equations may not be correct.
- xv. Keith – We need a follow-up meeting to discuss this with all of the stakeholders. We'll set something up.

ACTION ITEM: Set up meeting with all stakeholders to discuss SCM, either short-term or other options – Dominika – January

- xvi. Bruce – We need to look to see if there are ASR pavement failures.
- d. Samir – Question related to previous topic. Was there a solution for dropping the 25% requirement in section 49 for large diameter piles?
 - i. Patrick – In guidance document, Section 51-6 (mass concrete) could be used as long as the temperature was shown not to exceed the max allowable.
- e. Jacquelyn – I'm back, though I'm not an official member of either TG, I will be here to support.
- f. Mark – Are we presenting the short scoping docs to the EC?
 - i. Keith – We are still compiling comments and we will either present them or inform the EC they're not ready yet.
 - ii. Mark – Are we going to review them before the EC?
 - iii. Keith – I intend to have a meeting next week prior to the EC meeting.

Action Items from 12/09/20:

- 1. Set up meeting with all stakeholders to discuss SCM, either short-term or other options – Dominika – January

Action Items from 11/10/20:

- 1. Send out org chart for final review – Kelly – 11/17/20 – **Complete**
- 2. Send out the list of impacted (by flyash shortage) projects – Patrick/Kelly – 11/17/20 - **Ongoing**
- 3. Create the CTG 2021 schedule – Kelly – 11/17/20 – **Complete**

4. Contact Doug regarding the SOP – Kuo-Wei – 11/17/20 – **Complete**

Previous Action Items:

1. Send new dates for Concrete Mix Design to Cortney – Nathan/Brett – 6/12/20
2. STGs to develop revised bin lists and submit to CTG – STGs – 8/21/20
3. Send revised PCP Phase III scoping document to CTG – Dulce – 6/10/20
4. Look at CT 523 data exchange availability – Ken – 6/19/20