



Concrete Task Group (TG + STG Chairs/Leads)
September 11, 2019
10:00 AM – 12:00 PM
DOT Translab – OSM Room 514
Call-in: 866-676-8836; Participant Code: 6275887

Meeting Called By:	Concrete Task Group
Goal:	Obtain update of current work products
Invitees:	Keith Hoffman, Kuo-Wei Lee, Blair Anderson, Kirk McDonald, Mark Hill, Jacquelyn Wong, Dulce Feldman, Divyesh Vora, Nathan Forrest, Bruce Carter, Arshad Vali, Joe Holland, Cortney VanHook

ITEM	TIME	Lead	TOPIC	Desired Outcome
1	10:00 – 10:05	Keith H.	Introductions/Review Agenda	Member introductions and agreement on agenda
2	10:05 – 10:10	Keith H.	Review of Past Action Items	Obtain status
3	10:10 – 10:20	Dulce	Pavement Smoothness	Review of signed scoping documents. Provide current status from each working group
4	10:20 – 10:30	Dulce	Limited Construction Windows	Review of signed scoping documents. Provide current status from each working group
5	10:30 – 10:40	Divyesh	Precast Pavement – Phase II	Review of signed scoping documents. Provide current status from each working group
6	10:40 – 10:50	Jackie	4x8 Cylinders	Review of signed scoping documents. Provide current status from each working group
7	10:50 – 11:00	Jackie	Concrete Mix Design	Review of signed scoping documents. Provide current status from each working group
8	11:00 – 11:10	Jackie	Recycled Crushed Concrete Aggregate	Review of signed scoping documents. Provide current status from each working group
9	11:10 – 11:20	Jackie	CT 523 – Flexural Beam	Review of signed scoping documents. Provide current status from each working group

10	11:20 – 11:25	CTG	Review of issues raised to TG for resolution	Review of any issues that have been brought to the TG level for review
11	11:25 – 11:35	CTG	Review of STG Bin Lists	Review bin list for any potential scoping documents
12	11:35 – 11:45	CTG	Status of pilot projects/long-term tracking/Standard Specs - Crackless Bridge Deck - Low Flexural Beam Spec Language	Track status of pilot projects and any additional long term items
13	11:45 – 11:55	CTG	Research Update/DES committee Updates	Obtain update of research items or DES committee items that may be beneficial to CTG
14	11:55 – 12:00	CTG	Roundtable / Review Action Items / Next Meeting	Review action items and close meeting

Meeting Minutes:

1. Introductions/Review Agenda
2. Review of Past Action Items
 - a. Keith to discuss implementation of 4x8 cylinders during the DME meeting in October
 - b. Also will discuss through other avenues such as METS rep dog and pony, IA, etc...
3. Pavement Smoothness
 - a. Meeting to be held next week on September 19th in Southern California
 - b. Not a lot of data obtained just yet
 - c. Tracking all projects and will be in contact with REs to make sure all data is collected
 - d. CPDs have been released for smoothness except for grinding existing, which will be addressed on a case-by-case basis
4. Limited Construction Windows
 - a. Developed language for removing the 10-day requirement for opening to traffic.
 - b. Draft specification language will be compiled with recommendations into one single report by end of this month.
 - c. The Cast-In-Place (CIP) Concrete STG will package all upcoming changes into Section 40 and circulate for mandatory concurrences. In addition to removing the 10-day requirement, revisions to Section 40 will also include the following three modifications: 1. Language on alternative method to determine modulus of rupture in case of dispute resolution when low results are found, 2. Language to clarify full depth cracks vs partial depth cracks for non-compliant work and 3. Language to include cylinder breaks during mix design.
 - d. Cylinder breaks to be done at time of mix design only. Data is anticipated to be collected through DIME to demonstrate the excellent correlation between compressive strength from cylinders and flexural strength from beams for a given mix design. This correlation was demonstrated by the FHWA during the Mobile Concrete Technology Center (MCTC) Close-Out Meeting in Sacramento on August 2019. Potentially a CPD could be written to alert the REs of this new requirement.
5. Precast Pavement – Phase II
 - a. Will be meeting next week on September 18th in Chino Hills
 - b. Submitted the Risk Register at the end of June 2019
 - c. Started working on top 4 items identified in the Risk Registry

6. 4x8 Cylinders
 - a. 4x8 companion cylinders have been distributed for evaluation
 - b. Leaning towards having no correction factor
 - c. Three 4x8's will be fabricated to go with two 6x12's
7. Concrete Mix Design
 - a. Draft spec has been routed for review
 - b. Narrowing down on acceptable tolerances of mix designs
8. Recycled Crushed Concrete Aggregate
 - a. Working group is putting together their own report based on the report from CP2C
 - b. Last meeting held yesterday, 9/10/19
 - c. Determining traceability of source
9. CT 523 – Flexural Beam
 - a. Test method almost finalized
 - b. RSS not to come out to April. Need to determine how to implement, through CT or through NSSP
 - c. Consider putting out a CPD to let everyone know of the change
 - d. Test method to be changed by October 1st, IA working on letting all technicians know of the change
 - e. Giving option for active construction projects to go to new CT with a no cost change order
 - f. ACI Field Tech 1 to be prerequisite
 - g. Nathan to put together presentation on different changes
 - h. Identified additional changes during 9/4/19 meeting
10. Review of issues raised to TG for resolution
11. Review of STG Bin Lists
 - a. Type 1L is potentially top priority, however waiting on information from research
 - i. Need to determine estimated time to start
 - ii. Potentially to start January 2020
 - b. Acceptance of concrete pavement strength based on 28-day compressive strength correlated with 28-day flexural strength is potentially a top priority for the CIP Concrete STG.
 - c. Blended SCMs
 - i. See need from mix standpoint but need from a supply standpoint?
 - ii. Not sure ready to bring to PMPC just yet
 - iii. Will take a lot of effort to get implemented into specifications
 - d. Move Type 1L to number 1; move Blended SCM's to number 6
12. Status of pilot projects/long-term tracking/Standard Specs
 - a. Low strength flex beams
 - i. Waiting on comments from industry on language
 - ii. Mandatory concurrence to be completed by December and publishing in January
13. Research Update/DES committee updates
 - a. Tom Pyle assigned to be environmental contact for pavement program
 - b. Research to possibly brief on what projects are to come during next EC meeting
 - c. BCOA Pilot Project
 - i. Finished construction evaluation and putting together report
 - ii. Working on GPR data
 - iii. Projects on design methods and evaluating approaches
 - d. Early age cracking
 - i. Trying to find bad projects; have one down in D8 to obtain data
 - e. Calibration of Pavement ME
 - i. Have sensitivity report out

- ii. Scheduled a meeting in Translab on 9/26/19 time TBD
 - iii. Will discuss clarification on what data used for sensitivity data vs data used for calibration
14. Roundtable/Review Action Items/Next Meeting
- a. Kirk:
 - i. PMPC page is down on Caltrans website.
 - 1. Request STG to send meeting minutes out to TG in the interim of website updates
 - ii. DES Committee
 - 1. Request sharing information on what is being worked on
 - b. Jackie:
 - i. DES Committee
 - 1. Committee working on reviewing corrosion spec in section 90; looking into what other DOTs do
 - a. Bruce suggests bringing into STG; industry would have a lot of beneficial input
 - ii. Flex beam dispute resolution
 - 1. Take cores during test strip at 28/90 days, correlate to beams at 28 days and develop a k factor
 - 2. Issue with having short cores: proceed with short cores or scrap test?
 - a. Can we use correlation stated in C42?
 - c. Dulce:
 - i. JPCP-RSC Meeting in Southern California
 - 1. Had a successful meeting with Divyesh and all DMEs from Southern California in the morning of July 30, 2019.
 - 2. Dr. Mike Darter made a presentation to the group on the performance of slab replacements made 13 years ago in California.
 - 3. In the afternoon the entire group went to CTS for a tour of their facility and a presentation by Dr. Eric Bescher with UCLA.
 - 4. Dulce shared the presentations with the CTG.
 - ii. FHWA Mobile Concrete Technology Center (MCTC)
 - 1. Hosted a total of 3 MCTC Open Houses in June/July and a Close-Out Meeting in August.
 - 2. Dulce will shared the presentations with the CTG.

Action Items

Item	Task	Owner	Due Date
1	Report on SCMs supply and ASTM/ACI updates to Task Group (Agenda Item)	Cortney	10/24/19
2	Verify DIME can collect mix design, flex beam and cylinder data for rigid pavement	Dulce/Jackie/Brett	10/24/19
3	STGs to included TG members on meeting minutes as interim solution for website ADA issues	STGs	Ongoing

Action Items from 5/23/19

Item	Task	Owner	Due Date
1	STG chairs to evaluate current workload and upcoming bin list tasks to determine capacity	STG Chairs	6/13/19
2	Have conversation with Deborah and Dulce about concerns with smoothness schedule/discuss plan of action	TG Chair	6/7/19
3	Communicate through DME meetings, IA and QASI communications implementation of 4x8 cylinders	Keith	Ongoing
4	Confirm what is being collected for batch tickets (Mix ID's)	Keith	6/7/19

Concrete Task Group Meeting Attendance Log

Member	Role	TG Meeting Date																								
		9/12/2018	12/12/2018	1/24/2019	2/21/2019	3/13/2019	4/25/2019	5/23/2019	6/13/2019	7/25/2019	8/22/2019	9/11/2019	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	
Keith Hoffman	CT Chair	✓	✓	x	✓	✓	x	✓	✓	✓	✓	✓														
Kuo-Wei Lee	CT Member	✓	✓	✓	✓	✓	✓	x	✓	✓	✓	x														
Blair Anderson	CT Member	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x														
Kirk McDonald	Industry Lead	✓	✓	✓		✓	✓		✓	✓		✓														
Mark Hill	Industry Member	✓	✓	✓		✓	✓		✓	✓		✓														
Dulce Feldman	CIP CT Chair	✓	✓		x	✓		x	✓		✓	✓														
Bruce Carter	CIP Ind. Lead	✓	✓			✓			✓			✓														
Divyesh Vora	Precast CT Chair	✓	✓		x	✓		✓	✓		✓	x														
Doug McLaughlin	Precast Ind. Lead	✓																								
Jacquelyn Wong	M&QA CT Chair	✓	✓		x	✓		x	✓		x	✓														
Nathan Forrest	M&QA Ind. Lead	✓	✓			✓			✓			✓														
Marcella Wiebke	PMPC Exec. Asst.	✓																								
Joe Holland	UCPRC	✓	x			✓			x			✓														
Arshad Vali	Precast Ind. Lead		✓			✓			✓			x														
Charles Stuart	CIP Ind. Member		✓			✓			✓			x														
Deepak Maskey	For Kuo-Wei				✓	✓			✓			✓														
Hector Romero	For Kuo-Wei Lee							✓																		
Samir Ead	For Jackie Wong							✓																		
David Lim	For Jackie Wong										✓															
Doug Mason	EC Coordinator											✓														
Deborah Yost	For Blair Anderson											✓														

Key	
✓	Present
x	Absent
	Not Required

