

**Materials/QA Subtask Group  
CT-Industry  
Planning Meeting  
December 11, 2014  
1:00 – 4:00  
MINUTES**

**Materials/QA Subtask Group Members:**

<b>Keith Hoffman – Materials QA Subtask Group Co Chair</b>	<b>Not Present - Training</b>
<b>Mark Hill – Materials QA Subtask Group Co Chair</b>	<b>Present</b>
<b>Kirk McDonald</b>	<b>Not Present</b>
<b>Marc Robert</b>	<b>Present</b>
<b>John Lammers</b>	<b>Present</b>
<b>Jim Cotey</b>	<b>Present</b>
<b>Deepak Maskey</b>	<b>Present</b>
<b>Al Ochoa</b>	<b>Present</b>
<b>Mike Cook</b>	<b>Present</b>
<b>Don Reding</b>	<b>Present</b>
<b>Tracy Vacura</b>	<b>Not Present</b>
<b>Rick Navarro</b>	<b>Not Present</b>
<b>Jim Sagar</b>	<b>Present</b>
<b>Morgan Johnson</b>	<b>Present</b>
<b>Guests:</b>	
<b>Robert Hightower</b>	<b>Present</b>
<b>Chris McDermott</b>	<b>Present</b>

1. Welcome

2. Purpose of meeting – Briefing of STG activities by representative of the functional unit, garner a general status of milestones, create a forum for discussion and feedback, create a list of action items, and review schedule for near term and longer term.

3. Discussion –

Mr. Hoffman went through a round of introductions and presented the purpose of the meeting. It was mentioned that the goal of this meeting was to ensure that all members of the Materials/QA STG were on the same page in terms of activity milestones and action items.

The first topic of discussion was a review of the action items from the previous meeting. It was noted that “Smog-eating” concrete would remain on bin list. Industry was asked to further clarify what the goal of bin list item labeled “Rapid Strength Concrete” is. Industry was looking for clarification on MPQP requirements for mobile mixers placing

RSC. It was noted to the STG that the CIP Pavement STG was already working on this activity. It was agreed to leave on the bin list for informational purposes only. The previous action item regarding “Recycled Concrete” was discussed. It is currently being routed as an nSSP due to the specification moratorium and will be routed as a Standard Specification once the moratorium is lifted.

The next topic of discussion was the “Shotcrete” activity. Mr. Edward Zhang stepped in for a moment to provide an update. Mr. Zhang noted that in a recent team meeting the decision was made to increase the minimum required SCM from 632 to 675 lb/cf. The draft specification was sent to a select group for initial comment in advance of the group’s next team meeting on December 19<sup>th</sup>. Mr. Zhang also noted that in the draft specification, gradation requirements point to ASTM requirements instead of Section 90 gradation requirements.

Next Mr. Lammers provided the STG with an update on the Structural Concrete QCQA activity. Mr. Lammers indicated that the target implementation date of January 1, 2015 would likely not be met. It was noted that the draft specification is being reviewed by the prestressing committee with a deadline for comments of December 31, 2014. Once comments are received from the prestressing committee, the specification will then be routed to mandatory stakeholders for review. A new target implementation date for the “QCQA” specification was estimated to be in late February. It was also noted that the QA Guidance Document and the Construction Bulletin are being revised to reflect references to section 90-7 instead of 11-4. Mr. Hoffman indicated that the CTM updates are nearing completion and should be done by December 31, 2014. A few action items were noted regarding QCQA:

- If there is no information on DIME in the QA Guidance Document, provide that information to Mr. Lammers. (Mr. McDermott)
- Send report on cost impact of switching to ASTMs to Mr. Lammers (Mr. McDermott)
- Post draft specification onto STG website. (Mr. Lammers/Mr. McDermott)

Mr. Maskey then provided an update on the “Flex Beam” activity. Mr. Maskey and members of Industry indicated that they felt that much progress had been made in the last team meeting. There were three decisions made at the last meeting with concurrence from CT and Industry:

1. Regardless of method decided upon, field cure method would be used to test for opening age.
2. Mid-point loading method would no longer be used for determining flexural strength.
3. Extend the deadline for the CT523 research by 1 month.

Next the bin list for the next fiscal year was discussed. The first bin list item discussed was “Fiber Reinforced Concrete Specifications.” It was noted that there was some overlap with the Bridge Deck Preservation Committee for this activity, but glass fiber was not being addressed in the other committee. An action item was noted to add “Fiber in Pavement Sections” into the bin list.

The next bin list item discussed was “Rapid Strength Concrete.” It was agreed that although the CIP Pavement STG was working on this activity, the Materials & QA STG would leave this activity on the bin list for informational purposes only.

“Smog-eating Concrete” was discussed as a bin list item. Mr. Hoffman indicated that this technology would be a great way to be more environmentally friendly and an opportunity to try something new. Mr. Johnson indicated that some of the best applications of this technology are center divides, K-rail or anywhere else where there is UV lighting.

“Performance-based Concrete” specifications were discussed as another possible bin list item. It was noted that permeability and durability testing would be a potential hurdle to this activity. An action item was noted that Industry would investigate this further and report back to the STG as to whether this activity was worth pursuing.

The next bin list item that was discussed was the “Cubic Yardage Concrete and Aggregate Deduction” activity. The deduction in our specifications was developed many years ago and has never been adjusted for inflation. The deduction likely does not have the same impact that it did when first implemented. Mr. Reding indicated that he would take the lead in determining an appropriate adjustment.

Another bin list item that was discussed was the activity to “Separate ASR requirements from ‘green’ requirements in Section 90. The STG agreed to leave this activity on the bin list for informational purposes only.

“QCQA for CIP Pavement” similar to the “Structural Concrete QCQA” activity was suggested as a new bin list item. An action item was noted for Mr. Maskey to check with Nick Burmas to see if Pavement would be on board with this activity.

Another action item was noted for Mr. Maskey to look into Industry’s concern with regard to RSC shrinkage. Industry is curious about the rationale that supports this specification.

Finally, the group reviewed action items and captured priorities and the meeting was adjourned.

3. Next meeting: March 12 , 2014: Materials/QA Sub-Task Group Meeting, in-person in Sacramento. This meeting will be for Caltrans and Industry members of the STG.

Action Items from December 11, 2014	Due Date	Responsible Staff	Status
Ensure DIME information is in QA Guidance Document and make sure Mr. Lammers receives it.	12/31/2014	Mr. McDermott / Mr. Lammers	Pending
Send report on anticipated cost impact of switching to ASTMs	12/19/2014	Mr. Hoffman	Complete
Post draft QCQA specification to STG website	12/31/2014	Mr. Lammers / Mr. McDermott	Pending

Add "Fiber in Pavement Sections" to the bin list	12/19/2014	Mr. Hoffman	Complete
Add "CIP Pavement QCQP Specifications" as possible bin list item	12/19/2014	Mr. Hoffman	Complete
Provide recommendation to STG whether or not "Performance-based Specifications" is worth pursuing as an activity.	3/12/2014	Industry / Mr. Hill / Mr. Robert	Pending
Look into Industry's concern relating to RSC shrinkage. What is the rationale behind the specifications?	3/12/2014	Mr. Maskey	Pending

Decisions Made at the Meeting
New target implementation date for QCQA is end of February 2015.
Add items indicated above to bin list