Technical Committee meeting: SSC and CCS

February 4, 2016

Participants: Todd Bennett (MO DOT), Winson King (PennDOT), Kelly Morse (IL DOT), Allen Gallistel (MN DOT), Joe Putherickal (IA DOT), Michael Grubb (LA), Derrick Castle (Sherwin Williams)

AASHTO Staff: Katheryn Malusky, Greta Smith, Maribel Wong

Agenda

• Introductions
  o Todd’s first time hosting conference call as new chairman

• Old business
  o No outstanding items/old business to discuss

• Update on DataMine 3
  o CCS: entry sheet ready to submit to iEngineering, they will respond with a document for TC review. There will be a summary sheet to provide a quick synopsis, with more in-depth data available on other tabs.
    ▪ User guide will need to be drafted as users will need guidance in reviewing spreadsheet.
  o SSC: still working on SSC module sheets, call with DataMine team shortly after this call, updates will be available by next call.

• Program activity (number of samples active for each group)
  o SSC: 10 systems submitted
    ▪ Contracted lab: KTA
  o CCS: 6 systems submitted
    ▪ Laboratory: University of Kentucky

• Manufactures update
  o No current channel for CCS data to be published
    ▪ AASHTO working on this with UK
      ▪ **Action Item: Greta to follow up with UK**
  o Round 1 data is available but has not been published
  o Round 2 has experienced some delays in testing
    ▪ Anticipate round 2 data being available shortly
  o Manufacturers want to make this data available through NTPEP
    ▪ Release dates for 3.0 modules?
      ▪ DM 3.0 scheduled for 4th quarter in 2016
    ▪ Progress on making pdf reports available to AASHTO website?
      ▪ Information to be publicly available vs states-only section:
        ▪ Analytical data only to be available in password protected portal
        ▪ Pictures will not be published but will be available upon request
          – considering alternatives in the meantime
• New business
  o Work plan updates
    ▪ SSC: (Winson) citation for exempt VOC materials that does not cover all exempt solvents used by industry today. We will coordinate with KTA to propose a mechanism for evaluating exempt solvents in the coatings.
    ▪ CCS: (Winson) potential issues with mix design on the freeze thaw panels – water cement ratio of .50 high water content, may cause failures in panel unrelated to coating system. The standard for making panels is only .43, and .07 is a significant difference.
    ▪ SSC: (Derrick) has it been discussed to add solid testing for silane/siloxane containing coatings for SSC?
      • (Derrick) ASTM 2369 will not accurately measure non-volatiles for silane/siloxane. The method added to CCS should be added to the SSC method.
      • (Winson) These methods do not address detection of solids and exempt volatiles adequately to make work plan changes. We’ll need a proposal back from KTA to send to the committee for consideration and will need to rebid the contract if changes are made.
      • **Action Item: Winson and Todd to review methods for non-volatiles**
    ▪ CCS: (Derrick) – CCS Mix Design – part of the reason for the W/C ratio was to assist in creating a substrate stable enough for adhesion and F/T but permeable enough for Chloride Ion testing.
      • (Winson) May need to consider a higher W/C for chloride Ion penetration – but lower for F/T testing.
      • (Derrick) Thickness of the panel was determined so that the panels would fit in the QUV chamber. Reducing the W/C ration may affect workability and the failure may be due to increased porosity of the product
      • (Winson) We would like to have some cause and effect work done on the panels that failed in F/T testing. The coating systems were probably not the cause of failure for the panels.
      • (Derrick) At the time we developed the mix design - the emphasis was put on using a single mix design. UK was interested in using 2 different mix designs early in the program
      • (Winson) We have systems that have gone through the initial rounds that is relative to the substrates they were applied to. The Chloride Penetration test is working okay. There is a good reason to use the higher W/C ratio for that test. The thinner panels may need to be stronger and less permeable for valid data.
• (Derrick) The only push back from manufacturers would be if there is a significant cost increase for testing. I don’t think there would be an objection to changing the mix design.
• (Winson) We will factor this in and need to determine how to address this concern.
• (Derrick) There was a discussion at UK for some of the moisture vapor transmission cubes – possibly putting these in the next run of the F/T test to see if there was any benefit.
• **Action Item: Greta to check with UK for trial with cubes in F/T testing**

  o Reports to committees outside NTPEP
    (Todd) At SSPC we met with a couple of the different committees and they were interested in updates in activities from NTPEP protective coatings – this will keep the SSPC committees informed and help with program support
  o **Annual Meeting**
    - May 12-18<sup>th</sup>
    - Meeting on Tuesday
    - SSC analytical lab (CCC&L) has offered to give a tour of the facility
      - Working on squeezing this in during the week if enough people are interested
    - Katheryn will request technical committee leadership prepare agendas
    - [Register as soon as possible!](http://www.ntpep.org/Pages/NTPEPAnnualMeetings.aspx)
  o Committee membership
    - TK Products – add Mike Grivna
    - Carboline – add Debbie Simmons
    - SC member – remove Temple short
    - **Action Item: Maribel to update membership roster**

• **Adjourn**
  o Next meeting Thursday April 21<sup>st</sup> 1pm-2pm