



Technical Committee

Wednesday July 20, 2022 – The Place

DRAFT MINUTES

- Chairman Kuhn called the meeting to order at 10:02am.
- Antitrust Statement was included as page 4 of the Agenda, and the group was reminded that the meeting was being held in compliance with the Antitrust policy.
- An attendance sheet was circulated, based on the Opt-In responses obtained thru the VRMCA email blast. Members were asked to sign in, and update the sheet if corrections were needed, or to add their name if they did not make the list.
- Each attendee provided an introduction to the group (see attached attendance list).
- Kuhn mentioned that the minutes from the January meeting were not available due to a lost recording and lack of minute taker. A new recording/transcription software is being tried out for the meeting to see if this makes the process easier moving forward.
- Old business:
 - * Technical Article on the Hampton Roads Bridge Tunnel – Imperial reported that the project is underway, but lots of concrete still to go. An article is still on the radar with assistance from Denison.
 - * Kuhn still looking at putting an Technical Bulletin together on Acceptance Cylinders. The idea is a discussion of what acceptance cylinders are, why they are taken, and how they are to be used. A misunderstanding in the construction industry is largely to blame on why the standards are not properly followed and why the results are misused. Bulletin development is in process.
 - * Keiper had offered up researching and sharing the Virginia State Building Code, but is no longer in the industry so the item was dropped
 - * other topics and ideas were requested from the group for articles – topics mentioned were:

- a) how some inspectors feel the 60 – 80 degree curing requirement is irrelevant
- b) solar reflectivity benefits to using concrete
- c) Van Wyhe mentioned a Ken Hover presentation about differences in strengths of cylinders tested at various points throughout the load discharge

* CTAC (Concrete Testing Adherence Collaboration) concretetac.com

Kuhn gave an update on CTAC progress: program/app went live in May 2022, more groups in process of coming onboard, presentations being made (VRMCA had one at the Spring Conference), reporting is being improved. Will need to figure out where VRMCA stands on moving forward.

* ACI Field Level I certification program – Kuhn reported that VRMCA had returned to a 2 day program, with at least a review session the day prior to the exams. Unclear if or when that might return to a full instructional session.

* Virginia ACI Sessions – Kuhn gave an update on the scheduled sessions at this point for 2022: Aug 3 – Aggregate Level 1, Aug 17 – Strength, Oct 18 – Masonry Lab. SCC program now up and running, 2 sessions held since 2021. All sessions viewable at acivirginia.org Discussion of the failure rates for folks taking the exams, highest rates are from companies that provide additional training to their employees ahead of time. Video online training being provided for the practical sessions and ASTM standards being provided in addition to materials in the workbooks.

* Carbon Standards/Climate Forward Concrete Leadership Act – Kuhn reported house bill had gotten tabled. May 5th webinar was held, GSA has published new updated standards. EPD discussion. Robinson reported that code change proposals were made, very restrictive, had to be mix/location specific. Got shot down, efforts likely being redirected to state legislatures thru advocacy groups. Discussion over what is the baseline for a 20% reduction in carbon content (straight cement or existing mix approaches? – undefined). Chua reported on Amazon approach – improving the performance over previous phases, vs. reducing off an arbitrary base mix approach.

- Member Updates:

* Wahl reported Keiper no longer with SEFA, territory split, Morgantown source now gone, 3 NC Star plants running, Belews Creek back in SEFA fold, along with 4 MD sources and one outside of Pittsburgh.

- * Sullivan reported that ingredients coming in from overseas still problematic due to shipping challenges affecting both availability and cost. Lithium particularly problematic.
- Previous Items:
 - * Kuhn shared updates from ASTM C94-22
 - Note 26 – specifically states that deviations from standard moisture and temperature curing requirements of C31 is often a reason for low strength results, and such deviations may invalidate the use of such test results as a basis for rejection of concrete.
 - section 6.8 – line item stating that purchaser shall insure that manufacturer is provided copies of all reports of tests performed on concrete samples taken to determine compliance with specification requirements .. and reports shall be provided in a timely basis.
 - * Kuhn reported concerns had been raised over language being used on test reports – sampling done in accordance with C172, curing in accordance with C31, when neither was followed
- New Business:
 - * Neal reported that in 2021, C94 language was revised removing the 90 minute time limit for deliveries. C94 now requires producer to print on the delivery ticket what the allowable time limit is, and communicate that information at the time of ordering.
- Dates of Significance/Future Meetings:
 - * VDOT COOP Meeting @ VTRC Charlottesville – August 18 (9am – 2pm)
 - * September 29 – NRMCA RES Committee Meeting
 - * September 29 – October 2 - Concrete Works
 - * October 19, next scheduled Technical Committee Meeting @ The Place. After discussion, the group agreed on 3 meetings for 2023 spread 4 months apart, with meetings in January, May September – dates to be approved at the October meeting.
 - * October 23 – 25 – VRMCA Fall Conference – The Greenbrier
 - * October 23 – 27 – ACI International Convention – Dallas
- VDOT COOP Items:
 - ** Kuhn met with John Schuler and Angela Beyke on Monday
 - all items involving spec changes were being held by Angela while VDOT is looking

to fill a vacancy the specification engineer position in construction, which owns the specifications. She doesn't want to pass all the changes on to them and have them get lost in the shuffle.

- ~ changes to Options 2 & 3 to address project specific mixes

- ~ low shrinkage modifications to reflect 1.5 gal SRA dosage rate

- ~ admixture dispensing system language changes

- ~ changing SCC language to base mixes on ACI 237 instead of ACI 211

- Electronic Ticketing, TL 28s are a subset – committee members were solicited and work will be in progress with those committees, which are being run by VDOT's construction division.

- Table II-17 – adding A3 Curb mix, language had been accepted into the table, Angela had conducted a poll of the districts to see what everyone was doing, expect an update at the COOP meeting. Also polled on how the table notes were being applied, all inclusive or not.

- ACI 211 – Angela also polled districts on how they were applying the proportioning, rigid vs as a starting place.

- Shotcrete – updating to the new ACI spec, Angela considers this a low priority and is not focusing on it, when she polled the districts the consensus was that no one was having any problems with the spec the way it was presently, and no one was being penalized. Chua reported that this was not the case.

- No Air mix designs – Angela said the consensus from the DMEs was they were opposed to the idea, that it would add confusion.

- Material Changes and how to handle – Angela reported that the “official position” was that the TL-27 needs to state the materials being used. DMEs all have the ability to make changes as needed.

- ACI 318 Acceptance Criteria – discussion about possible changes. With VDOT's restrictions in w/c ratio for mixes, they almost already “want” a higher strength, but use F'c as the minimum. Discussion about holding off on pushing this for the time being.

- Air detrainers – already allowed as a type S admixture. Sullivan reported that detrainers already built into most HRWRs and so use give you additional control of the finished air content of a mix.

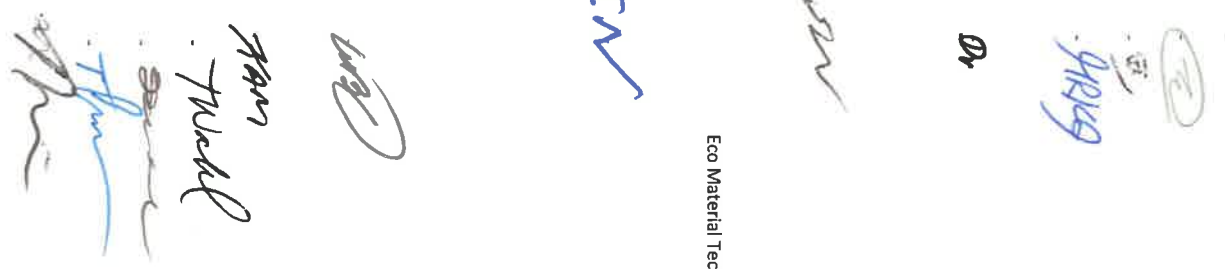
- Adjournment: 12:03

** group broke for lunch, and then meeting concluded with a presentation by Derek Imperial regarding shrinkage of concrete mixes and the various mechanisms and test methods to determine shrinkage amount, as well as the effect on slab design and joint spacing.

VRMCA Technical Committee

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7/20/22
Corrections



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