



Technical Committee

Draft Minutes of Meeting

Wednesday April 24, 2019

10 AM – 12 PM

The Place at Innsbrook

Richmond, Virginia

- I. Call to Order – Kuhn @ 10am
- II. Antitrust Statement - Chairman
- III. Introductions
- IV. Approval of January 30, 2018 Minutes - Approved
- V. January 30, 2018 Action Items
 - a. Technical Bulletins: #7 creation (R Neal)
 - BNeal will send current draft to J Greenwood to be distributed with these minutes to Committee for review.
 - b. Topics for future Technical Bulletins
 - One topic was discussed, High Performance Concrete, though Committee discussion felt TB's are more aligned with the ABC's of a topic rather than general information.
 - c. Selection of VDOT COOP Representatives
 - Chair would like to hold this item over to July meeting pending outcome of May meeting with J Schuler of VDOT where Coop format may be discussed.
 - **ACTION ITEM:** Committee Members, please communicate your interest in being part of a formal select group to the Chairman in the event a new format is developed. Non-participation in the select group does not preclude participation in future Coops.
- VI. Old Business
 - a. COOP Items –

- Chairman has provided general notes on each of these topics to Committee that are planned to be discussed at the May meeting between the Chairman and J Schuler of VDOT. The intent is to not let these topics stagnate but to keep them present in order to be concluded.

A. VDOT TL-27 Forms

- Two forms have been discussed spitting Option 1 Mix designs, to include additional numbers of aggregates, from Options 2 & 3 (potentially 4) to include room for testing verification.
- Committee discussion noted VDOT District differences. Felt adapting as needed may be sufficient.
- The potential for a future web-based submittal process was discussed from examples now in place by VDOT for the Aggregate and Asphalt Industries.

B. VDOT TL-28 Forms

- Two options have been discussed to include a) Status Quo (could be hand written or electronic that includes batch weights and, b) which would require batch weights on tickets.

C. Option 4 Mix Designs

- Specifically for non-prescriptive or rare mixes where producers may not have historical evidence or 3 point-curves (specialty mixes or one-offs).

D. Removal of -200 Limit for Options 2-3 Mix Designs

- Seeking to clarify for Options 2 & 3 (potentially 4) Mix Designs, that individual components in a fine aggregate blend do not have to meet the deleterious limits for #200 sieve individually but do as a blend at the higher stone sand limits. This item also seeks to address how some fine aggregates proposed for use individually or in a blend may not show up on VDOT's Approved Supplier List.

E. Increase in Allowable Fines (Pilot Project)

- No one has seen the special Provision activated on any projects and some feel that increased levels of minus #200 sieve materials may not be economical.
- **ACTION ITEM:** Chairman will investigate disposition of the Special Provision.

F. Modifications to ACI 211 Mix Method

- Committee seeking to get VDOT to modify the language for Option 1 Mix Designs to allow ACI 211 designs to be a starting place for the mix with final quantities being determined after making adjustments that then would be subject to +/-5%.

G. Low Shrinkage A4 Modified Concrete SRA Dosage Rates

- Seeking to modify language that would allow producers to use a manufacturer's recommended dosage rate in lieu of testing.

H. Retarder Set Time Determination

- Requesting guidance from VDOT on how to accurately determine lack of retardation.

I. Admixture Dispensing Systems

- Seeking VDOT to accept metered admixtures vs. bottles when producer complies with NRMCA.

J. ACI 318 Mix Design Methods

- Due to overdesign, seeking VDOT to adopt ACI 318 in the spirit of reducing paste content thereby reducing potential shrinkage.

K. Electronic Delivery Tickets

- Proposing change to in Language to remove the requirement of printed tickets only.

Additional Items:

L. Non-Air Mix Designs

- Chairman seeking consensus that allowing 1% increase in air content due to use of super plasticizers should be acceptable to VDOT in all designs.

M. Expiration of Mix Designs

- Mix Design expiration is handled differently across VDOT Districts. Chairman seeking consensus to allow mix designs to remain current indefinitely as long as the mix continues to perform as expected.

Personnel & Timelines

New Concrete Program Manager

- No word yet from VDOT. Chairman expects some discussion during May meeting with J Schuler of VDOT.

Next COOP Meeting

- Status of future Coops to be discussed during May meeting with J Schuler of VDOT

b. Concrete Adherence Program

- Chairman presented information regarding the Colorado Ready Mixed Concrete Association's program.
- Basically, an observance program of concrete testing technicians' adherence to prescribed test methods while testing concrete at job sites by "qualified" persons.
- **ACTION ITEM:** Chairman is asking if Committee is interested in pursuing such a program. Please communicate your comments/questions/suggestions to the Chairman.

VII. VRMCA Items – Greenwood

a. Newsletter Articles

- Presented by Chairman: J Greenwood reports that technical articles continue to attract attention on the Association's website and in social media.
- **ACTION ITEM:** J Greenwood requests members send articles of interest to her or Chairman.

b.

VIII. New Items of Business

a. Executive Committee?

- Chairman seeking comments for need of an Executive Committee to respond to items that may occur between committee meetings or may not need the attention of the full Committee.
- Committee expressed trust in Chairman to have executive privilege to respond, as deemed necessary.

b. B Horton-Titan America: Qualified Quality Control Representatives at Jobsites

- Would like to explore with VDOT what constitutes a "Qualified Quality Control Representative" that must be on-site for adjustments to mixes.
- ACI Level I or equivalent?

c.

d.

IX. Program

ACI 318 / ASTM C-150 – Low Alkali Update (R Neal)

- Presented changes coming to ASTM C150 regarding Low Alkali Cement designation.
- Presented info found in ASTM C1778 Standard Guide to Reducing the Risk of Deleterious Alkali-Aggregate Reaction in Concrete.
 - Includes alkali “loading” from cements, which does not include SCM’s, and potential reactivity of aggregates based on level of risk.
- Provided article to Committee entitled: *No More Low-Alkali Cement – Why?* – R Neal

X. Future Meeting Programs

- a.
- b.
- c.
- d.

XI. Future Meeting Dates

- a. Technical Committee - *July 31, Oct 30 (*COOP Mtg to follow - tentative)
- c. VRMCA Conference – Spring May 5-7 VA Beach, Oct 27-29 The Greenbrier

Meeting Adjourned 12:35

Minutes respectfully submitted,

Mitch Crenshaw - Luck Stone Corporation