

SUBCOMMITTEE ON MATERIALS
2016 Annual Meeting – Greenville, SC
Wednesday, August 3, 2016
10:15 – Noon EST

TECHNICAL SECTION 3c
Hardened Concrete Properties

[Mr. Secretary - See attachment 1 for ease in compiling the ballot for this TS. Attachment 1a is the summary.]

I. Call to Order and Opening Remarks

Chair - Felag (RI)

Vice Chair - Babish (VA)

AASHTO AMRL Liaisons – Puterbaugh and Bluman

Sergeant at Arms – Don Streeter (NY)

The chair opened the meeting with a rendition of 'Just Vote No' sung to the tune of Frozen's 'Let it Go.' This song depicted the frustrations of a tech section chair (fictional, of course) who has a full redlined marked up specification in front of him, full of comments and negatives. He is confused and frustrated on how to handle it until he realizes he has the power, the power as chair, to make all negatives and comments non-persuasive and editorial. He now creates the 'perfect spec' and challenges the committee to just vote no, he doesn't care, as he stands confidently in front of the technical section (**Attachment a**).

II. Roll Call – 100 people attended the meeting (Attachment b)

III. Approval of Technical Section Minutes –

- A. **Annual Meeting - August 2015 – Attachment c: Motion to pass (NY, AL), passed for B as well.**
- B. **Mid-Year Meeting - November 2015 – Attachments d and e**
- C. **Annual Ballot – Attachment f**

IV. Old Business

- A. **SOM Ballot Items (Both Ballots Passed)**
 - 1. **Dual Ring Test Using Inner Concrete Ring – New Standard - Attachment g & h**
 - 2. **Dual Ring Test Using Inner Steel Ring – New Standard – Attachment i**
 - a. **Motion to move to concurrent ballot as 2 standards (NY, MD), passed**
 - 3. **PP 65 – Reactivity of Aggregates – Full Standard - Attachment j to ballot, j1 has editorials**

- a. **Motion to move to full standard (MD, GA)**
 - i. Discussion on comments made from last year that were never addressed by PA, MO agrees since Brett had 25 comments
 - ii. **Task force to work on this: Gina will lead in cooperation with PA, MO**
 - iii. Motion passes to go through task force before moving to full standard.
- B. TS Ballots (Both TS Ballots Passed)
 - i. 16-02 – T 358 - Concrete Resistivity – Initiated by MO Research - **Attachment k**
 - a. **NE: Brett (MO) debated Note 4: should have a time limit of 5 minutes to transfer from moist room**
 - b. **Bill Bailey (VA): suggested to have the 5 minutes, but give some extra guidance**
 - c. **Has already passed TS ballot. Motion to send to full SOM: (MO, AL), passed**
 - 2. T 358 – Concrete Resistivity - Note 2 – Oak (MT)
 - a. **MT: Samples cured in lime water bath resulted in higher resistivity than moist cure room**
 - b. **Mark (RI - Chair) proposed removal of note**
 - c. **Jason Weiss: Comment that any liquid bath with add variability. Having a note is fine, but a revision is recommended.**
 - d. **Egan (TN): Agreed with variability. Colin: moist rooms can cause variable moisture conditions.**
 - e. **Delete sentences 1,3,4 in Note 2, editorial: no vote. Mark passes by chair authority**
 - ii. 16-03 – ASR by CAE – New Standard - Anol and Cecil – **Attachments l & m**
 - 1. **Cecil: changed to new standard based on comments from ballot have been addressed.**
 - 2. **Don Streeter (NY): Will remove negative comment after reviewing updated standard**
 - 3. **This did pass TS ballot. Move to send to full SOM ballot: (PA, NY), passes.**
- C. Task Force Reports
 - i. 15-01 – T 24 – Obtaining and Testing Drilled Cores and Sawed Beams - Bob Horwhat (PA) - **Attachment n**
 - 1. **Bob delivered report: Looking to allow for immersion in water. Created PTM to address this. Sought to incorporate differences into T 24. Revised T 24 was sent to Andy.**
 - 2. **Mark (RI - Chair) would like to push this straight to concurrent to get these changes out with the next standards update. Bob recommended the TS take their time and review as TS ballot first. Comments from OK on the conflicts that these changes create with T 22 and within T 24 itself regarding specimen ratios.**
 - 3. **Colin: soaking in water will result in lower results (~10%). Ratio not as big of deal**
 - 4. **Mark (RI - Chair): comments sent to Bob over next month then **move to TS ballot. Motion (PA, MT). Passes****

V. New Business

- A. Research Proposals – **Research liaison is MI (John Stanton) – no news**
 - 1. 20-7 RPS
 - 2. Full NCHRP RPS
- B. AMRL/CCRL – Mr. Powell – CCRL’s summary of findings from previous tour is available on website.
- C. NCHRP Issues – Mr. Hanna

- i. Air void characteristics and how it affects durability: project in progress for another 2.5 years. Hope to develop a few test methods.
 - ii. Encouraged States to submit problem statements by October 14 to NCHRP if you have any research needs.
- D. Correspondence, calls, meetings - none
- E. Presentation by Industry/Academia - none
- F. Proposed New Standards
 - i. Performance Engineered Mixtures – New Standard - Prual (FHWA) - **Attachment o & p**
 - 1. Presented on specification.
 - 2. Motion to move to concurrent ballot as provisional standard (MT, NY)
- G. Proposed New Task Forces
 - Only TF discussed above.
- H. Standards Requiring Reconfirmation
 - i. T 259 – Resistance of Concrete to Chloride Ion Penetration
 - 1. Look for this from Evan soon.
- I. SOM Ballot Items (including any ASTM changes/equivalencies) – Motion to move items below with ASTM equivalency through to ballot with equivalent changes (AL, MT), passes – Attachment q
 - i. R39 – Making & Curing Concrete Test Specimens (Lab) - ASTM - **Attachment r**
 - ii. T22 – Compressive Strength of Cylinders - ASTM + Tolerances (See Table 2) - **Attachment s**
 - 1. Mark (RI - Chair): “Tolerances” – Table 2 testing times.
 - 2. Colin: Work in ASTM is in progress to update this in C39
 - 3. Mark (RI - Chair): would like to add tolerances in the meantime then check for equivalency.
 - a. No motion necessary, as motion at top of section V covers. Will go to ballot.
 - iii. T 23 – Making & Curing Concrete Test Specimens (Field) - ASTM & WAQTC – **Attachment t**
 - 1. Motion to ballot WAQTC changes on tapping, not capping (OR, MT), passes
 - 2. Mark (RI - Chair) requests to alter 9.4.1 – WAQTC will take a look
 - iv. T 97 – Flexural Strength of Concrete (3 Point) - ASTM - **Attachment u**
 - v. T 160 – Length Change of Concrete- ASTM - **Attachment v**
 - vi. T 161 – Resistance to Rapid Freezing and Thawing - ASTM - **Attachment w**
 - vii. T 177 – Flexural Strength of Concrete (Center Point) - ASTM - **Attachment x**
 - viii. T 231 – Capping Concrete Specimens - ASTM - **Attachment y**
 - ix. T 276 – Measuring Early Age Compressive Strength - ASTM - **Attachment z**
 - x. PP 58 – Static Segregation of Cylinders - Full Standard & Photos – **Attachment za**
 - 1. Problem with pictures, will exclude second level of pictures if pass through to full standard for now.
 - 2. Mark (RI - Chair): recommended moving to full standard.
 - 3. Motion to send to full standard after picture deletion or revision (OK, MO), passes
 - xi. TP 119 – Elec. Res. Of Cylinders in Uniaxial Res. - Revision or 2 yr. Reconfirmation or Full Standard – **Attachment zb**
 - 1. Mark (RI - Chair) wishes to move to full standard – Is anyone using, though?
 - 2. Survey will be sent to determine if it should be sent to full or extend provisional for 2 years
 - 3. Motion to ballot extension for 2 years TS ballot (OR, NY), passes

VI. Open Discussion

- A. Calcium Oxychloride – Weiss - **Attachment zc**
 - i. **Classifies binder to avoid reaction from deicing salts and cement**
 - ii. **Motion to send to full ballot as T method, concurrently (MO, NY), passes**
 - 1. **Remove ASTM logo**
- B. MIT ScanT2 – FHWA – nondestructive test to determine pavement thickness – **Attachment zd**
 - i. **Mark (RI - Chair) recommends provisional**
 - ii. **Motion to send to provisional ballot as T method, concurrently, (FL, OK), passes**
 - 1. **Remove ASTM logo**

VII. Adjourn