

## SUBCOMMITTEE ON MATERIALS

2017 Annual Meeting – Phoenix, AZ

Monday August 7, 2017

10:15 – 11:15 AM EST

### TECHNICAL SECTION 3b

#### Fresh Concrete

#### I. Call to Order and Opening Remarks

A. Brief summary of activities

#### II. Roll Call

Mick	Syslo	Nebraska Department of Roads	NE	
Becca	Lane	Ontario Ministry Of Transportation	ON	
Brett	Trautman	Missouri Department of Transportation	MO	
Daniel	Tobias	Illinois Department of Transportation	IL	
Daniel	Miller	Ohio Department of Transportation	OH	
Denis	Boisvert	New Hampshire Department of Transportation	NH	
Kenny	Seward	Oklahoma Department of Transportation	OK	
Richard	Barezinsky	Kansas Department of Transportation	KS	
Robert	Lauzon	Connecticut Department of Transportation	CT	
Steven	Ingram	Alabama Department of Transportation	AL	
Sejal	Barot	Maryland Department of Transportation	MD	
Darin	Tedford	Nevada Department of Transportation	NV	
Charles	Babish	Virginia Department of Transportation	VA	
Danny	Lane	Tennessee Department of Transportation	TN	
Donald	Streeter	New York State Department of Transportation	NY	
Joe	Feller	South Dakota Department of Transportation	SD	
Mark	Felag	Rhode Island Department of Transportation	RI	
Michael	Santi	Idaho Transportation Department	ID	
Peter	Wu	Georgia Department of Transportation	GA	
Wasi	Khan	District of Columbia Department of Transportation	DC	
Kurt	Williams	Washington State Department of Transportation	WA	
Greg	Stellmach	Oregon Department of Transportation	OR	
Paul	Burch	Arizona Department of Transportation	AZ	
Brian	Ikehara	Hawaii Department of Transportation	HI	
Michael	Bergin	Florida Department of Transportation	FL	
Allen	Myers	Kentucky Transportation Cabinet	KY	
John	Staton	Michigan Department of Transportation	MI	
Curt	Turgeon	Minnesota Department of Transportation	MN	
Scott	Andrus	Utah Department of Transportation	UT	
Darren	Hazlett	Texas Department of Transportation	TX	

#### III. Approval of Technical Section Minutes (Mid-year meeting minutes found below)

#### IV. Old Business

A. SOM Ballot Items

1. M 302 : Standard Specification for Slag Cement for Use in Concrete and Mortars (see comments below)

- Affirmative - 24
- No Vote - 3

B. Fly Ash Task Force – Mick Syslo

- Short Presentations given by Dr. Ley, Dr. Sutter & Dr. Juenger

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### **TECHNICAL SECTION 3b**

#### **Fresh Concrete**

#### **V. New Business**

- A. t 119 : Slump of Hydraulic Cement Concrete – Scott Andrus
- B. AASHTO Re:source/CCRL - Observations from Assessments?
- C. NCHRP Issues
- D. Research Proposals
  - 1. 20-7 RPS
  - 2. Full NCHRP RPS
- E. Standards Requiring Reconfirmation
- F. SOM Ballot Items (including any ASTM changes/equivalencies)

#### **VI. Open Discussion**

#### **VII. Adjourn**

## Minutes from November 10th, 2016 Mid-Year Meeting



### SUBCOMMITTEE ON MATERIALS

2016 Mid-Year Meeting – Webinar

Thursday November 10<sup>th</sup>, 2016

10:00 – 12:00 PM CST

#### TECHNICAL SECTION 3b

#### Concrete Materials and Fresh Concrete Properties

- I. **Call to Order and Opening Remarks**
- II. **Roll Call**  
AZ, CT, HI, ID, IL, KS, KY, MD, MI, MN, NE, NV, NH, OH, OK, ON, SD, TN, UT, VA, WA
- III. **Approval of Technical Section Minutes (Page 2-5)**  
**Move to approve minutes- OK, Second -MN; Discussion: none. Vote: (All-0-0) Motion carries.**
- IV. **Old Business**
  - . Review of Fall Ballots
    0. R 064, Sampling and Fabrication of 50-mm (2-in.) Cube Specimens Using Grout (Non-Shrink) or Mortar
      - . 44 Affirmative and 1 Negative  
Negative was resolved and editorial changes were made in 7.6.1 and 7.6.2. Clarification was made on initial, standard, or field curing. The words “After initial curing” was added to the first sentence on Sections 7.6.1 and 7.6.2. No action is needed since these items are editorial.
    1. T 121m-t121, Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
      - . 45 Affirmative and 0 Negatives
      - a. Revisions were mostly editorial in nature to take care of comments in ballot. One of the comments was about the tapping of the sides of the measure in Section 7.4 self-consolidated concrete. The words “tapping the sides of the measure was added. OK is fine. PA- does continuous mean vessel has to be larger? Can you scoop? NE- Should be poured as continuous flow. Not added incrementally.
    2. T 152, Air Content of Freshly Mixed Concrete by the Pressure Method
      - . 45 Affirmative and 0 Negatives  
Comments were similar to T 121 with tapping the measure. Reference was added to prohibit rodding, vibrating, or tapping. Updated to reference ASTMs. Garth Newman- How do you continuously pour material into these types of molds? WAQTC is very specific. Should tech be dumping directly from wheel barrow or into a bucket, then into the mold.  
NE- intent is for one continuous pour.  
Garth Newman- the more clarification the better. Garth will take comments back to group and pass response /correspondence to TS.  
IL- updates to ASTM reference noticed ASTM sections are incorrectly referenced. NE – AASTHTO will check the formatting prior to print.

## Minutes from November 10th, 2016 Mid-Year Meeting

### 3. TP 118, Characterization of the Air-Void System of Freshly Mixed Concrete by the Sequential Pressure Method

#### . 45 Affirmative and 0 Negatives

Review may indicate that statement is redundant in Section 4.1, "Digital gauges with maximum pressures of 50.0 psi (344.7kPa) have been used satisfactorily." MI and OK agree. IL- is it implied that a minimum "max-pressure" is required.

NE- will add a note indicating that the gauge needs to have a minimum pressure of 50 psi.

SC- does there need to be a tolerance for the depth of rodding Section 7.3? MI- it would be appropriate to keep it as is to maintain consistency with other standards.

NE- will need to update verbiage in TP118. This will be treated as an editorial.

KY- ASTM guidance will permit multiple fillings of container. Does not require continuous pour.

AZ- probably need to change from "continuous lift" to "continuous pour".

Chair- We will make this change.

#### A. AASHTO webinar on the Super Air Meter was held on October 20, 2016.

Intent was to educate individuals who were not familiar with SAM. Does this need to be repeated or has it been broadcast accordingly? This needs to stay on the RADAR.

#### B. Update on Task Force on Flyash Standards.

National outreach Task Force was created to gage the availability of fly ash. What else is out there? What are states running into? The report was finalized on November 4<sup>th</sup>. Contact chair for a copy if needed. Georgene has sent this out.

TX, NE, NY, ID- Task Force will start now. Looking for implementation and review documents as a group. Prioritize tasks. VA-did this get sent out to Task Force or SOM-TS? NE- it appears that it only went to the TF. AASHTO (K. Malusky)- this will be uploaded to the SOM website; link will also be sent to NE (Heyen). AASHTO (K. Malusky)- Information will also be shared with Chief Engineers at SCOH meeting this weekend.

Link for AASHTO Subcommittee on Materials (SOM) 2016 Fly Ash Task Force Report –

[http://materials.transportation.org/Documents/Announcements/AASHTO\\_SOM\\_FA\\_Report\\_11\\_04\\_2016-under%20announcement.pdf](http://materials.transportation.org/Documents/Announcements/AASHTO_SOM_FA_Report_11_04_2016-under%20announcement.pdf)

#### C. Update on Reconfirmation of Standards.

Reconfirmation ballot will be sent out on Monday (11/14/16).

## V. New Business

### . M 302, Slag Cement for Use in Concrete and Mortars

Work was done by John Melander. There are 3 areas that will be changed, 10.1.3 on flow range, Appendix X3 ASR, and ILS on SAI – common reference cement used from NIST. This information was included in Section 1.7. This will be taken to TS ballot.

#### A. AMRL/CCRL - Observations from Assessments?

AMRL is now AASHTO re:source. Please continue to work with the transition and feel free to contact re:source with any questions.

#### B. Standards Requiring Reconfirmation -AASHTO PUBS

#### C. Research Proposals

#### D. NCHRP Issues

Amir- No problem statements came from any of the TS3. Project on durability is a bit behind. Please look for research needs and submit problem statements. No problem statements from concrete materials for CY 2018.

## VI. Open Discussion

## VII. Adjourn

VIII. AASHTO Electronic Balloting System  
**Ballot Detail Report**

**Ballot Detail**

Ballot Name: m 302

Ballot Manager: Wally J Heyen

Ballot Start Date: 4/6/2017

Ballot Due Date: 5/8/2017

**m 302**

<b>Item Number:</b>	<b>1</b>
Description:	AASHTO M 302 has been updated to reflect the changes to the ASTM Standards.
Decisions:	Affirmative: 27 of 30 Negative: 0 of 30 No Vote: 3 of 30

Agency (Individual Name)	Comments	Decision	Response Attachment
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Slag Cement Association (John Melander)  
 (John.Melander@slagcement.org)

During the interim between development of the ballot item and distribution, the provisional AASHTO PP 65 has become a full standard with the designation R80. Editorial changes are needed to reflect the new designation as follows:

Section 2.1 - Change "PP 65" to "R 80."

Appendix X3.3 - Change "PP 65" to "R 80."

Georgia Department of Transportation I do not think that the re- Affirmative  
(Peter Wu) (pwu@dot.ga.gov) numbering for Section 10.7.7.2  
is correct. 10.1.7 and 10.1.7.1  
are about PRECISION.  
However, Slag Cement Density  
has nothing to do with  
PRECISION. Slag Cement  
Density should be 10.2 and  
Amount of Slag  
Cement...should be 10.3 and  
so on.

Florida Department of Transportation Article 10.1.7.1 editorial Affirmative  
(Michael J Bergin) comment in the second  
(michael.bergin@dot.state.fl.us) sentence, "on the same day  
are not be expected". Add "to"  
after not. This is duplicated in  
the following paragraph as  
well.

Virginia Department of Transportation Section 2.1 - Reference to Affirmative  
(Charles A. Babish) PP65 should be changed to  
(andy.babish@vdot.virginia.gov) R80. PP65 was balloted to  
become a full standard in 2016  
and will be published as R 80  
in 2017.

Date: 6/14/2017