



SUBCOMMITTEE ON MATERIALS
101st Annual Meeting – Pittsburgh, Pennsylvania
Thursday, August 5, 2015
10:00 am – 12:00 pm EST

TECHNICAL SECTION 4f/g
STRUCTURAL COMPONENTS/CONCRETE REINFORCEMENT
Minutes

I. Call to Order and Opening Remarks

The chairman called the meeting to order at 10:09am EST.

II. Roll Call

Voting Members:

Name	State
Zwanka, Merrill E. (Chair)	South Carolina
Blackburn, Lyndi D. (Vice-Chair)	Alabama
Virmani, Paul Y.	FHWA
Duke, Steve M.	Florida
Wu, Peter	Georgia
Mueller, Matthew W.	Illinois
Kreider, Richard E.	Kansas
Hood, Woodrow L.	Maryland
Trautman, Brett Steven	Missouri
Tedford, Darin P.	Nevada
Sheehy, Eileen	New Jersey
Horner, Ron	North Dakota
Ramirez, Timothy	Pennsylvania
Lane, Danny L.	Tennessee
Bailey, William R.	Virginia

Friends:

Name	Affiliation
Helmink, Heidi A.	Bekaert Corp.
Kleinhans, Danielle D.	CRSI
Krouse, Dean C.	Krouse Consulting
Schoen, Jim	Nucor-Yamato
Arnesen, Tore O.	Vector Corrosion

In attendance at the meeting:

First Name	Last Name	Organization
Eileen	Sheehy	NJ DOT
Brian	Korschgen	AASHTO
Matthew	Mueller	IL DOT
Evan	Rothblatt	AASHTO
Martin	Gagne	International Zinc Association
Danielle	Kleinhans	Concrete Reinforcing Steel Institute
Allen	Myers	KY Transportation Cabinet
Lyndi	Blackburn	ALDOT
Katheryn	Malusky	AASHTO
Kevin	Halstead	VP Engr
Tracy	Barnhart	AASHTO Material Reference Laboratory
Merrill	Zwanka	SC DOT
Brandi	Mitchell	Chemist
Tom	Russo	MMFX Steel Corporation
Josiah	Beakley	American Concrete Pipe Association
Timothy	Ruelke	FL DOT
David	Kuniega	PENNDOT
Greg	Uherek	AMRL
Ron	Horner	ND DOT
Pete	Ault	Elzly Technology Corporation
Hany	Fekry	DeIDOT
Richard	Douds	GADOT
Charles	Hasty	GA DOT
Danny	Lane	TN DOT
Anup	Ruia	Director
Mladen	Gagulic	VTAOT
Ronald	Stanevich	WV DOH
Steven	Ingram	AL DOT
Joe	Seiders	Raba Kistner Infrastructure, Inc.
Bill	Bailey	VADOT
Shannon	Pole	International Zinc Association

III. Approval of Technical Section Minutes

Mid-year web meeting held April 2, 2015

Motion to approve the minutes as written NJ. 2nd FL Motion passed.

IV. Old Business

1. SOM Ballot Items

- A. **Item 99:** SOM ballot for revisions to **MP18**. 44 yes, 1 no. Lots of comments and then follow-up discussion during the April 2 meeting. Bill Bailey (Virginia) addressed most of the comments

during a task force conference call. There was much discussion about Appendix vs Annex for this standard as well as the concrete mix design requirements for testing. The negative was withdrawn by Pennsylvania based on an editorial paragraph that was added that clarifies their questions on the testing. The revised standard was accepted with the mix design specifics removed from Annex A3.3.6. *Discuss separating out the testing portion into its own standard, the need for a more specific mix design, and Annex vs Appendix requirements.*

Bill stated that procedure started out with one steel then it was expanded to the mild corrosion steels, which involved a long performance test – which is where this procedure (FL tombstone test) comes into the annex. The method can be used to compare and test other steels as well. Was added to keep everything in one table. Bill volunteered to take on the development of this procedure into a standalone test method. Also suggested pulling out all 3 test methods to roll into a single test method. NJ volunteered to help. MMF test, comparative test, and the last is an ASTM which can be referenced.

– **Task Force 15-01 VA, FL, NJ, and PA. This task for will work to create the test methods discussed above.**

- B. **Item 100:** Concurrent ballot for **M31-14** equivalency with **ASTM A615-12**, 45 yes, 0 no. Addressed editorial comments.
Handled in the mid-year meeting.
 - C. **Item 101:** Concurrent ballot for **M169-09** equivalency with **ASTM A108-13**, 45 yes, 0 no. Addressed editorial comments.
Handled in the mid-year meeting.
 - D. **Item 102:** Concurrent ballot for **M270-12** equivalency with **ASTM A709-13a**, 44 yes, 0 no. Addressed editorial comments.
Handled in the mid-year meeting.
 - E. **Item 103:** Concurrent ballot for **M292-13** equivalency with **ASTM A194-12a**, 45 yes, 0 no. Addressed editorial comments. Discussion of Section 6.4.1 during April 2 meeting. Illinois provided clarified wording for the section.
Editorial clarification supplied by Illinois. This wording was published in this version.
2. TS ballots
- A. **SOM_TS4F-15-03** - Combined Standard for Wire Reinforcement. Ballot closed July 10, 2015. **Had 13 affirmative votes, 0 negative votes, and 2 no votes. Majority of comments were editorial.**
TXDoT does their own plant inspections and can supply some names. PA will see if some of their internal staff to help with these items. Industry (CRSI and ACPA) offered to help with the comments as well.
3. Task Force Reports
- A. **Task Force 2011-01: Investigate corrosion resistant steel and MP18M/MP18.** Definitions need clarifying and method of corrosion measurements needs to be established. Virginia, CRSI, Illinois, FHWA, Louisiana, Pennsylvania, and South Carolina. See **Item 99** from the SOM ballot items.
Sunset this task force as the work with this standard is complete.
4. Ballots confirmed in 2015 that need further review
- A. **M254-06(2015)**, Needs tech review to address CRSI comments.
Steward: AMRL
 - B. **M292M/M292-15**, Needs equiv. & tech review for Section 6.4.1 and ref to **T244 (ASTM A194)**
Steward: GA
 - C. **M322M/M322-10(2015)**, Needs equiv & tech review to address CRSI comments (**ASTM A996**)
Steward: MD
 - D. **M329M/M329-11(2015)**, Needs tech review to address CRSI comments

Steward: FHWA

- E. **T285-89(2015)**, Needs tech review to address CRSI comments

Steward: ID

The chairman will send all of these to the stewards to look at the comments provided back in the reconfirmation ballot.

Several Standards do not have stewards. The chair will assign the standards to states. Bill Bailey suggested Merrill send the standards out asking for volunteers. If no volunteers come forth, Merrill will assign them.

V. New Business

1. Research Proposals - None
2. AASHTO Issues
 - A. Update on NTPEP Rebar/WWR Technical Committee items.
 - AASHTO NTPEP has implemented some unannounced audit components, has revised to allow states to do some form of unannounced sampling. States can do surveillance for some time afterward when corrective actions have been required.
 - NTPEP has hired some additional folks for inspections. NTPEP has gotten a new Vice Chair from Illinois.
 - NTPEP is doing minimum comparisons and flag those tolerances.
 - PA – If state takes the challenge and pulls a sample and it falls out of the tolerance how is it treated? Kathryn indicated that all unannounced samples will be tested as the split sample.
 - Discussed revisions made to data entry Excel spreadsheet. This spreadsheet is available to the states. Contact AASHTO staff to receive this document.
 - B. AMRL Issues - None
3. NCHRP Issues - None
4. Proposed New Standards
 - A. **MP XYZM/MP XYZ-15, Steel Wire and Welded Wire, Plain and Deformed, for Concrete Reinforcement.** AASHTO equivalency for **ASTM A1064** per TS ballot SOM_TS4F-15-03, Combined Standard for Wire Reinforcement.
Discussed above in Item IV.2.A.
 - B. **Electrochemical Chloride Extraction.** This standard was re-introduced to the chair in 2014 for consideration by the TS. After some research the chair determined that the standard was discussed in the 2010 TS4f/g meeting and the TS voted to not accept the standard because it was outside of the scope of this TS. The chairman notified Mr. Arnesen of Vector Corrosion Technologies.
This issue was addressed in 2010 and the Chairman has handled - no further action is needed.
5. Proposed New Task Forces
Task Force 15-01 (See Above) in Item IV.1.A.
6. Standards Requiring Reconfirmation or Revision
 - F. **M31M/M31-15**, Needs equivalency and tech review (ASTM A615)
 - G. **M102M/M102-06(2011)**, Needs equivalency review (ASTM A668)
 - H. **M202M/M202-08(2012)**, Needs equivalency review (ASTM A328)
 - I. **M203M/M203-12**, Needs equivalency review (ASTM A416)

- J. **M255M/M255-05(2013)**, Needs equivalency review (ASTM A675)
 - K. **M275M/M275-08(2012)**, Needs equivalency review (ASTM A722)
 - L. **T244-14**, Needs equivalency review and updated photos
 - M. **T253-02(2011)**, Needs reconfirmation in 2015
 - The Chairman inquired to see if Tracy Barnhart of AMRL could provide help with the equivalency. Evan suggested utilizing Georgene and Henry for help as well. The Chairman will also send these out to the stewards these standards for review.
7. SOM Ballot Items (including any ASTM changes)
None
8. Correspondence, calls, meetings/ Presentation by Industry
- A. Concrete Reinforcing Steel Institute update – Danielle Kleinhans, CRSI
 - Dannielle expressed appreciation for inclusion in the AASHTO process.
 - High strength reinforcing steel has been a hot topic for them recently in the private industry.
 - She also mentioned that E-learning has become popular.
 - A615 has a grade 100 and is available.
 - A1035 have added CM and CL. Bill Bailey (VA) asked if these new designations needed to be included in MP 18. Industry replied that it would be TS choice but the basic chemistry and properties are the same as the CS.
 - B. Continuously Galvanized Rebar - Presentation by Shannon Pole, International Zinc Association
 - International Zinc Association is a trade association.
 - **Questions:** How do you QC the coating? Right now it's a visual inspection. Thickness of coating can be measured and is measured in the production process as covered by ASTM.
 - What is the difference between this and the stainless clad bar? Those are more of a mechanical process where these are a metallurgical coating.
 - How much has been done with CGR? This product is very new – 3 years experience in China on the railways. Field experience is limited. Started a tombstone test and are one year into the test. Comparing to a number of different products. Looking for an announcement from a North American producer before the end of the year.
 - C. **AASHTO M270** and **ASTM A709** standards. Email/call from Norman McDonald, State Bridge Engineer, Iowa DOT and Chair of AASHTO SCOBS TC T-14, Structural Steel Design, which is responsible for Section 6: Steel Structures in the AASHTO Bridge Design Specifications. Is **AASHTO M270** being used by any state and can it be discontinued?
 - The Chair will send out a survey on M270 use and will get with the SOM Iowa representative on this issue. Greg (AMRL) reported that 11 labs are accredited and 6 of those are DOT labs.
 - VA, NJ, and SC cite ASTM 709.
 - D. Date for Mid-Year Web Meeting – Production Group 2 – ballot opens 10/15/15, closes 11/15/15, *mid-year call 1/20/16*, all negatives addressed and final ballot to pubs 1/27/16.
 - E. Carryover Queries: Just received, the Chair will send out to the stewards where comments don't appear to be editorial.

VI. Open Discussion

None

VII. Adjourn

Chair adjourned the meeting at 10:39 a.m. EST.

Summary:

TS 4f/g Meeting Summary		
Meeting Date:	8/6/2015	
Items approved by the TS for Subcommittee Ballot:		
Standard Designation	Summary of Proposed Changes	Subcommittee Only or Concurrent?
M31	went out for concurrent ballot, ready for committee ballot	Subcommittee Only
M169	went out for concurrent ballot, ready for committee ballot	Subcommittee Only
M270	went out for concurrent ballot, ready for committee ballot	Subcommittee Only
M292	went out for concurrent ballot, ready for committee ballot	Subcommittee Only
New Task Forces Formed:		
Task Force Name	Summary of Task	Names of TF Members
2015-01	MP 18: Separating out the testing portion into its own standard, the need for a more specific mix design, and Annex vs Appendix requirements. This may result in three different test methods.	FL, PA, NJ, VA will complete this. Bill Bailey will lead this task force
Research Liaison:	Lyndi Blackburn	
Other Action Items:		

First	Last	Company	Email	Phone	TS
Eileen	Sheehy	NJ DOT	eileen.sheehy@dot.nj.gov	609-530-2307	TS4f/g
Brian	Korschgen	AASHTO	bkorschgen@ashto.org	202-624-8566	TS4f/g
Matthew	Mueller	IL DOT	matthew.mueller@illinois.gov		TS4f/g
Evan	Rothblatt	AASHTO	erothblatt@ashto.org	202-624-3648	TS4f/g
Martin	Gagne	International Zinc A	mgagne@zinc.org	647-228-1927	TS4f/g
Danielle	Kleinhans	Concrete Reinforcir	dkleinhans@crsi.org	847-714-3823	TS4f/g
Allen	Myers	KY Transportation C	allen.myers@ky.gov	502-564-3160	TS4f/g
Lyndi	Blackburn	ALDOT	blackburnl@dot.state.al.us	334-206-2203	TS4f/g
Katheryn	Malusky	AASHTO	kmalusky@ashto.org	202-624-3695	TS4f/g
Kevin	Halstead	VP Engr	kevin.halstead@valmont.com	9182847448	TS4f/g
Tracy	Barnhart	AMRL	tbarnhart@amrl.net	240-436-4802	TS4f/g
Merrill	Zwanka	SC DOT	zwankame@scdot.org	803-737-6682	TS4f/g
Brandi	Mitchell	Chemist	brandi.mitchell@ky.gov	502-564-3160	TS4f/g
Tom	Russo	MMFX Steel Corpor	tom.russo@mmfx.com	410-627-6961	TS4f/g
Josiah	Beakley	American Concrete	jbeakley@concrete-pipe.org	972-894-2906	TS4f/g
Timothy	Ruelke	FL DOT	timothy.ruelke@dot.state.fl.us	352-955-6620	TS4f/g
David	Kuniega	PENNDOT	dkuniega@pa.gov	717-787-3966	TS4f/g
Greg	Uherek	AMRL	guherek@amrl.net	240-436-4840	TS4f/g
Ron	Horner	ND DOT	rhorner@nd.gov	701-328-6904	TS4f/g
Pete	Ault	Elzly Technology Cc	pault@elzly.com	856-839-2434	TS4f/g
Hany	Fekry	DeIDOT	hany.fekry@state.de.us	302-760-2551	TS4f/g
Richard	Douds	GADOT	rdouds@dot.ga.gov	404-608-4805	TS4f/g
Charles	Hasty	GA DOT	chasty@dot.ga.gov	404-608-4708	TS4f/g
Danny	Lane	TN DOT	danny.lane@tn.gov	615-350-4175	TS4f/g
Anup	Ruia	Director	anup.ruia@valmont.com	847-455-0884	TS4f/g
Mladen	Gagulich	VTAOT	mladen.gagulich@vermont.gov	802-828-6405	TS4f/g
Ronald	Stanevich	WV DOH	ron.l.stanevich@wv.gov	304-558-9880	TS4f/g
Steven	Ingram	AL DOT	ingrams@dot.state.al.us	334-206-2335	TS4f/g
Joe	Seiders	Raba Kistner Infrac	jeff.seiders@rkci.com	512-904-9177	TS4f/g
Bill	Bailey	VADOT	bill.bailey@vdot.virginia.gov	804-328-3106	TS4f/g
Shannon	Pole	IZA	spole@zinc.org	289-440-1886	TS4f/g