

SUBCOMMITTEE ON MATERIALS

2016 Annual Meeting – Greenville, SC

Tuesday August 2, 2016

10:15 AM –12:00 PM EST

TECHNICAL SECTION 4d

I. Call to Order and Opening Remarks - Chair Intro, Thank you, Awards

- Colin gave opening remarks.
- This is his last year as Tech Section 4d Chair.
- Dennis Dvorak was introduced as Vice Chair.

II. Roll Call – Sign in Sheet

FL	Tim Ruelke	TN	Danny Lane
GA	Monica Flournoy	TX	Darren Hazlett
IL	LaDonna Roden	VA	William Bailey
KY	Brandi Mitchell	WA	Kurt Williams
MA	John Greico	WI	Vacant
MN	Curt Turgeon	AASHTO	Tracy Barnhart
			Henry Lacinak
MO	David Ahlvers	AMRL	Maria Knake
OH	Lisa Zigmund	FHWA	Dennis Dvorak, vice chair
OK	Scott Seiter		
RI	Colin Franco, chair		

Friends of TS 4d

TTI	Paul Carlson
3M	Todd Ballen

III. Approval of Technical Section Minutes - SOM TS 4d Mid Year Web Conference Meeting Minutes, January 15, 2016. Motion: TN, Second: TX

IV. Old Business

- A. SOM Ballot Items
No outstanding items from Mid-Year Meeting.
- B. TS Ballots

M 180 Corrugated Sheet metal Beams for Highway Guardrail,

Revision forwarded to AASHTO Table 1 – Revised to clarify that a “spot” is a randomly selected location on a finished beam or sheet and the weight of coating includes both sides of the beam. Figures 3 and 4 were revised to include an additional detail to clarify the end of sheet dimension.

C. Task Force Reports

i. **M 333/TP 103- Task Force lead by Darren Hazlett (TX), assisted by Henry Lacinak (AASHTO) and Danny Lane (TN). Task force to look into developing a national standard**

- *Darren Hazlett – Update*
A survey was conducted after last year’s meeting with 21 responses. States have conducted very limited testing. NTPEP had a task force that met during the 2016 NTPEP meeting and this topic should be included in the 2017 program for testing once the work plan is completed.

V. **New Business**

A. Research Proposals

1. 20-7 RPS –

NCHRP 20-7/Task 374 Guidelines for Selecting Sign Sheeting Materials for AASHTO M 268. – Research and panel status- Henry Lacinak – Update Henry was not present to give an update. Colin briefly reviewed the status of this project. The panel has not met yet.

Tensioned Cable Guardrail Specification-46-14 – Final report is complete
Tim Ruelke; update on problem statement to develop specification through NCHRP
Discussed NCHRP Synthesis 493, Practices for High-Tension Cable Barriers. There is a need for a problem statement to develop a specification that States can include in contracts. Tim wrote a problem statement, which included the following items to be addressed – engineering properties for various steel components, material treatments, galvanizing requirements, option for stainless steel hardware, AASHTO & ASTM test methods that are going to be required to assess engineering properties, soils parameters needed to design end treatments and methods for acceptance. There is also a need for design guidelines. Katheryn will forward this problem statement to other staff at AASHTO that may have an interest in this since the American Traffic Safety Services Association (ATSSA) is also interested.

2. Full NCHRP RPS

None has been submitted and if anyone has a desire for a research topic to be considered, forward it to Colin by September 15th.

Request for research problem statements from each member

B. AMRL/CCRL – none

C. NCHRP Issues - none

D. Correspondence, calls, meetings - covered previously

E. Presentation by Industry/Academia

Art Bertol of Wheeling-Nisshin, Inc. spoke about a new material, ZAM coated steel. “ZAM” includes coating layers of zinc, 6% aluminum and 3% magnesium alloy for coating steel. Art focused on possible changes to AASHTO M 180 that would allow inclusion of this product.

Other manufacturers have similar proprietary processes so a generic specification can be included in M 180 to cover all of the manufacturers. ZAM has been evaluated by APEL. The webpage is located at:

<http://apel.transportation.org/AASHTOEvaluated/ViewProduct/?id=102>.

- F. Proposed New Standards – none
- G. Proposed New Task Forces –None at this time.
- H. Standards Requiring Reconfirmation

M 180, M 269, M 281, M 290, T 257

Standard bearers are needed for M 180 and M 181 since Colin is retiring.

- I. SOM Ballot Items (including any ASTM changes/equivalencies) – none.

VI. Open Discussion Tennessee treats fence post wall thickness as a minimum for M 181. Are other states using the wall thickness tolerance of 12.5% as specified in section 31? Tennessee will send out a survey through the Listserv.

VII. Adjourn

First Name	Last Name	Organization	Email	Phone	TS
Samuel	Allen	TRI/Environmental, Inc.	sallen@tri-env.com	512-263-2101	TS 4d
William	Bailey	VADOT	bill.bailey@vdot.virginia.gov	804-328-3106	TS 4d
Todd	Ballen	3M	taballen@mmm.com	651-575-0851	TS 4d
Rick	Barezinsky	KS DOT	rickba@ksdot.org	785-368-6521	TS 4d
Tracy	Barnhart	AASHTO	tbarnhart@amrl.net	240-436-4802	TS 4d
Art	Bertol	Wheeling-Nisshin, Inc	artb@wheeling-nisshin.com	304-527-4855	TS 4d
Michael	Black	KY Transportation Cabinet	michael.black@ky.gov	502-564-3160	TS 4d
Jason	Davis	LADOTD	jason.davis@la.gov	225-248-4106	TS 4d
Michael	Doran	TNDOT	michael.doran@tn.gov	615-350-4105	TS 4d
Dennis	Dvorak	FHWA	dennis.dvorak@dot.gov	708-283-3542	TS 4d
Carolyn	Fisher	FHWA - South Carolina	carolyn.fisher@dot.gov	803-765-5412	TS 4d
Monica	Flournoy	GA DOT	mflournoy@dot.ga.gov	404-608-4708	TS 4d
Ryan	Fragapane	AASHTO	rfragapane@aaashto.org	202-624-3632	TS 4d
Colin	Franco	RI DOT	colin.franco@dot.ri.gov	401-222-3030	TS 4d
Chris	Gaudette	ORAFOL Americas Inc.	chris.gaudette@orafol.com	860-676-7100	TS 4d
Jim	Goddard	Jim Goddard, LLC	jimgoddard3@gmail.com	740-972-0012	TS 4d
John	Grieco	MA DOT	john.grieco@dot.state.ma.us	617-951-0590	TS 4d
Darren	Hazlett	TX DOT	darren.hazlett@txdot.gov	512-416-2456	TS 4d
Steven	Ingram	AL DOT	ingrams@dot.state.al.us	334-206-2335	TS 4d
David	Kuniega	PENNDOT	dkuniega@pa.gov	717-787-3966	TS 4d
Danny	Lane	TN DOT	danny.lane@tn.gov	615-350-4175	TS 4d
Robert	Lutz	AASHTO	rlutz@amrl.net	240-436-4801	TS 4d
Katheryn	Malusky	AASHTO	kmalusky@aaashto.org	202-624-3695	TS 4d
Brandi	Mitchell	KY TC	brandi.mitchell@ky.gov	502-564-3160	TS 4d
Allen	Myers	KY Transportation Cabinet	allen.myers@ky.gov	502-564-3160	TS 4d
Will	Rogers	Georgia Asphalt Pavement Association	wrogers@gahotmix.com	770-622-7798	TS 4d
LaDonna	Rowden	IL DOT	ladonna.rowden@illinois.gov	217-782-4423	TS 4d
Timothy	Ruelke	FL DOT	timothy.ruelke@dot.state.fl.us	352-955-6620	TS 4d
Jesus	Sandoval-Gil	AZ DOT	jsandoval-gil@azdot.gov	928-200-4260	TS 4d
Kenny	Seward	OK DOT	kseward@odot.org	405-522-4999	TS 4d
Ronald	Stanevich	WV DOH	ron.l.stanevich@wv.gov	304-558-9874	TS 4d
Curt	Turgeon	MN DOT	curt.turgeon@state.mn.us		TS 4d
Lisa	Zigmund	OH DOT	lisa.zigmund@dot.ohio.gov	614-275-1351	TS 4d



SUBCOMMITTEE ON MATERIALS MID YEAR WEB CONFERENCE MEETING AGENDA

Friday, January 15, 2016
1:00 pm – 3:00 pm EST

TECHNICAL SECTION 4d
SAFETY DEVICES

Please send an email to tbarnhart@amrl.net including your name and place of employment to signify your attendance.

Please mute your phone during the meeting. If you do not have a mute button press *2.
Press *2 again to unmute.

I. Call to Order and Opening Remarks – Chair Intro, Thank you, Awards

- Colin opened the meeting
- Steve Krebs and Matt Mueller (retired) have moved on
- Dennis Dvorak is the new Vice Chair of 4d

II. Roll Call

FL	Tim Ruelke	WA	Kurt Williams
GA	Rick Douds	WI	Vacant
IL	Matt Mueller	AASHTO	Evan Rothblatt Tracy Barnhart (Tracy is with AMRL and has taken over Evan's responsibilities for this TS)
KY	Derrick Castle		
MA	John Greico Rick filling in		
MN	Curt Turgeon		
MO	David Ahlvers	AASHTO	Henry Lacinak
OK	Scott Seiter	AMRL	Maria Knake
RI	Colin Franco, chair	AMRL	Steven Lenker
RI	Jose Lima	AMRL	Brian Korschgen (Brian is with AASHTO, not AMRL)
TN	Danny Lane		
TX	Darren Hazlett	FHWA	Dennis Dvorak, vice chair
VA	Bill Bailey		

Friends of TS 4d

TTI	Paul Carlson
3M	Todd Ballen

III. Approval of Technical Section Minutes – Annual SOM TS 4d Meeting Minutes, August 4, 2015 Pittsburgh, Pennsylvania. Attachment 1

- Curt Turgeon’s name is spelled incorrectly, change made
- Motion – WA, second- FL

IV. Old Business

A. Previous Year SOM Ballot Items

SOM-2015 rolling Ballot 02 – Comments received regarding Ballot Item 7 are attached. Attachment 2

- No negatives but some comments
- PA – the acronym “PROWAG” will be spelled out
- Should there be a reference to specific agency standards for location? Discussion. No objections – there will be a link to the particular section in PROWAG specifying the location.
- “Detectable warning surface shall be located as specified by PROWAG unless specified by the purchasing agency.” Discussion. FL expressed concerns but isn’t opposed to the change. Colin indicated those words (“unless specified by the purchasing agency”) will be excluded from the next spec revision. No objections voiced.
- TN had some comment as first comment from PA. Previously discussed. Link will be added specifying the location.
- Acceptance limits - TP 103. Change is noted.
- Right of Way access guidelines. We are going to say PROWAG and the link will be from PROWAG.
- VA – same comment as PA. Previously covered.

B. TS Letter Ballots

i. M 180 Corrugated Sheet metal Beams for Highway Guardrail, Attachment 3

- Clarify what the test is (spot test) and clarify the dimensions. Typo in the table - dimensions should be in oz/ft², not oz/ft³. Confusion with meaning of “area of beam” and “area of surface.” Discussed possible wording to clarify. Colin read proposed wording to attendees. Will have further discussion on this topic at SOM. Will work on wording and send it out in a week so it’s in before publication deadline. (Revised wording isn’t part of the ballot. Just want to work on clarifying the wording.)
- Will add sketch (Section Through Beam) for clarification.

- **Revise Table 1. To add Note**
- **Clarification of guardrail dimension**

C. Task Force Reports

i. M 333/TP 103- Task Force lead by Darren Hazlett (TX), assisted by Henry Lacinak (AASHTO) and Danny Lane (TN). Task force to look into developing a specification for detectable warning surfaces through use of a survey. The results of this survey would be analyzed and hopefully used to create a national standard. Attachment 4

- Analyze survey results Discussed.
- Proceed towards NCHRP research
- Do nothing
 - Colin will explore options with Katheryn Malusky to see if NTPEP would be interested in carrying this forward

V. New Business

A. Research Proposals

1. NCHRP 20-/Task 374 Guidelines for Selecting Sign Sheeting Materials for AASHTO M 268. Attachment 5

- Need to create a panel of experts, 5 or 6 people; Colin is looking for 4 more people. Discussed possible participants, including Henry, Kelly, Jim Swisher and others. Should industry people also be involved? Yes.

2. Tensioned Cable Guardrail Specification-46-14 – Final report is complete printing due out in Spring 2016

- **Develop a specification through NCHRP?**
- Discussion. Colin requested help developing a problem statement. Needs a small task group of three people. Submittal deadline is Oct. 15th. Tim Ruelke offered to take a shot at it, still need two more people.

B. AMRL/CCRL Issues – Nothing to report

C. NTPEP Work Plan Item #14 (Sign Sheeting Materials), Attachment 6

- Be prepared. Revisions to the work plan have already been balloted. Some comments were returned. After taking care of comments, work plan will be placed on NTPEP website within the next couple of months.

D. NCHRP Issues - New Research problem Statements Previously discussed.

1. M 333 – Set materials specifications for acceptance
2. Tensioned Cable Guardrail specifications

E. Correspondence, calls, meetings/ Presentation by Industry – Nothing to report, Attachment 7 Went through this already.

1. M 180
 - W-beam dimensional question – e-mail Jose Otalvaro
 - Clarification of W-beam “Spot Test” – e-mail Marti Gagne, IZA
 - Clarification of zinc

F. Proposed New Standards – Nothing to report

G. Proposed New Task Forces – Nothing to report

H. SOM Ballot Items (including any ASTM changes) – Nothing to report

VI. Open Discussion No new business.

VII. Adjourn Colin expressed thanks to those that helped with the web meeting. Adjourned at 2:28 p.m. Bill Bailey – motion, TX – second.

