

SUBCOMMITTEE ON MATERIALS

**Mid-Year Web Meeting
Wednesday, February 17, 2016
1:30 pm – 3:30 pm EST**

**TECHNICAL SECTION 2b
ASPHALT**

I. Call to Order and Opening Remarks Maria gave some rules on the web meeting. Eileen will be retiring on September 1, 2016. Lyndi Blackburn (AL) is going to be taking over as the Chair, and Barry Paye (WI) will be taking over as the Vice-Chair.

II. Roll Call Member attendance marked below. For complete attendance see Appendix A.

Voting Members					
Blackburn, Lyndi D	Alabama	X	Tedford, Darin P	Nevada	X
Burch, Paul and Craig Wilson	Arizona	X	Boisvert, Denis M. and Baron Black	New Hampshire	X
Schiebel, Bill R	Colorado		Sheehy, Eileen	New Jersey	X
Connery, James P.	Connecticut	X	Burnett, Robert A.	New York	
Khan, Wasi U	District of Columbia		Peoples, Christopher	North Carolina	X
Bukowski, John R (Matt Corrigan)	FHWA	X	Lane, Becca	Ontario	
Nash, Tanya M	Florida	X	Mullis, Cole F.	Oregon	X
Wu, Peter	Georgia	X	Ramirez, Timothy	Pennsylvania	X
Shishido, Eric	Hawaii		Byrne, Michael and Mark Felag	Rhode Island	X
Mueller, Matthew W. (Justan Mann)	Illinois	X	Egan, Brian	Tennessee	X
Kreider, Richard E.	Kansas		Hazlett, Darren	Texas	X
Myers, Allen	Kentucky		Andrus, Scott (Dave Thomas)	Utah	X
Abadie, Chris	Louisiana	X	Ahearn, William and Mladen Gagulic	Vermont	X
Bradbury, Richard L	Maine		Bailey, William R.	Virginia	X
Hood, Woodrow L.	Maryland		Farley, Paul M (John Crane and Jimmy Fritz)	West Virginia	X
Grieco, John E. and Maggie McDonald	Massachusetts	X	Paye, Barry	Wisconsin	X
Strizich, Matt (Oak Metcalfe)	Montana	X			
Non-Voting Members					
Johnson, Brian	AMRL	X	Arasteh, Michael	FHWA	

Knake, Maria	AMRL	X	Aschenbrener, Tim	FHWA	X
John Malusky	AMRL	X	Harman, Tom	FHWA	
Lutz, Robert	AMRL		Smith, Michael Ray	FHWA	
Rothblatt, Evan	AASHTO		Gallivan, Victor Lee	Gallivan Consulting	X

III. Approval of Technical Section Minutes

Request discussion and approval of minutes from August 6, 2015 meeting in Pittsburgh, Pennsylvania. **TS Chair received a call from Jesus Sandoval (AZ). AZ no longer wants to be on the single-edged notch task force. No other changes were suggested. LA approved the minutes, OR seconded. Minutes are approved.**

IV. Old Business

A. SOM Ballot Items

Items 26 – 30 – See Attachment #1 for all comments.

Item 39 - Concurrent ballot item to adopt a new provisional test method for Determination of Performance Grade of Physically Aged Asphalt Binder Using Extended Bending Beam Rheometer (BBR) Method. See Appendix D-1 (pages 18-26) for the proposed standard and page 3 of the 2015 minutes for discussion and motion. 46 Affirmative, 0 negative, 6 No Vote. **This item passed. Editorial comments have been addressed. This is now TP 122.**

Item 40 - Concurrent ballot item to adopt a new provisional test method for Measuring Asphalt Binder Yield Energy and Elastic Recovery Using the Dynamic Shear Rheometer. See Appendix D-2 (pages 27-32) for the proposed standard, Appendix D-2a for responses to the TS Ballot, and pages 3-4 of the 2015 minutes for discussion and motion. 46 Affirmative, 0 negative, 6 No Vote. **There were no negatives. Task Force considered all comments. Editorial comments have been addressed. OH was concerned about precision and bias. TX wanted to do the testing on unaged binder. The Chair feels that those are valid comments, but the task force is not sure about making a change on unaged binder since no one is performing the test on unaged binders at this point. This will be revisited once people start using this standard. This is now TP 123.**

Item 41 - Concurrent ballot item to revise TP 102 to keep this standard in line with the NTPEP work plan for asphalt release agents. See Appendix D-3 (pages 38-49) for the proposed standard and page 4 of the 2015 minutes for discussion and motion. 45 Affirmative, 0 negative, 7 No Vote. Editorial comments were addressed. Task Force considered all comments. **This item passed. Proposed changes have been forwarded to the Chair, and they appear to be all editorial in nature. The comments are included in Attachment 1 of the agenda.**

Item 42 - SOM ballot item to revise M 320 to base PAV temperatures on climate when switching grades due to traffic or blending with other asphalt (RAP/RAS). See Appendix D-4 (pages 50-55) for the proposed standard and page 4 of the 2015 minutes for discussion and motion. 45 Affirmative, 0 negative, 7 No Vote. Comments from Kentucky, Massachusetts, and Oklahoma stating that footnote f is confusing. See Attachment #2 for some other potential wording. **The Chair tried to propose wording to help eliminate the confusion. She also tried to add a table to help make it clearer. Lyndi will work on another revision to clear this up. She will email her revision out to the technical section to get comments before sending it to ballot.**

Item 43 - Reconfirm R028-12 as a full standard. 45 Affirmative, 0 negative, 7 No Vote. Discuss Pennsylvania comment. Consider Task Force.

<p>Pennsylvania Department of Transportation (Robert D Horwhat) (rhorwhat@pa.gov)</p>	<p>Affirmative but please review and respond to our comment: ----- We have had problems with Section 6.1.2.3 during our AMRL Surveillance audits. Our previous PAV was not able to release pressure in a "linear rate" and was written up by the AMRL auditor. We had to purchase new PAVs from a different PAV manufacturer to solve this problem. Can this section be reviewed to see if the rate of release needs to be in a linear rate? If the concern is excessive foaming of the sample, will de-gassing take care of that?</p> <p>"6.1.2.3: A slow release bleed valve that allows the pressure in the vessel at the completion of the conditioning procedure to be reduced at an approximately linear rate from 2.1 MPa to local atmospheric pressure within 9 ± 1 min."</p>
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Matt Corrigan stated that the Binder ETG (Dave Anderson) has been looking at this, and he found that neither of the main PAV manufacturers conform to this requirement. ETG is looking at whether this is going to make a difference in the condition of the material. The TS will wait for a report from the ETG.

Item 44 Reconfirm T313-12 as a full standard. 45 Affirmative, 0 negative, 7 No Vote. No comments.

Item 45 Reconfirm T314-12 as a full standard. 45 Affirmative, 0 negative, 7 No Vote. No comments.

Item 46 Reconfirm T315-12 as a full standard. 45 Affirmative, 0 negative, 7 No Vote. No comments.

Item 47 Reconfirm TP078-09 (2013) as a provisional standard. 45 Affirmative, 0 negative, 7 No Vote. No comments. TP 78 (Detecting the Presence of Phosphorous in Asphalt Binder) is coming to the end of its life as a provisional standard. Consider adopting as a full standard or deleting. **There is a question as to whether people are still using this and if the SOM should still maintain it. This will be balloted at the TS level for removal to see if there is any real interest in maintaining this standard.**

Item 48 Reconfirm TP101-12 (2015) as a provisional standard. 45 Affirmative, 0 negative, 7 No Vote. No comments.

Item 48 Reconfirm TP102-12 (2015) as a provisional standard. 45 Affirmative, 0 negative, 7 No Vote. Since this standard was balloted for change this year, the reconfirmation is moot.

B. TS letter ballots

No TS Ballots since the August meeting.

C. Task Force Reports

Single Edge Notched Bending Test - Task force goal was to determine if this standard should be considered for adoption as provisional test method. The membership of the task force is Travis Wallbeck (West Virginia) (Chair), Bill Hurguy (Arizona), and Becca Lane (Ontario). **WV is no longer interested, and no one at the meeting showed interest in working on this test method. The Chair will sunset this task force, and if someone wants to resurrect this item in the future, it will be handled as new business.**

Binder Yield Energy and Elastic Recovery Test –The membership of the task force is Oak Metcalfe (Montana) (Chair), Bill Scheibel (Colorado), Barry Payee (Wisconsin), Mike Santi (Idaho), and Scott Andrus (Utah). The standard was balloted and adopted. Task Force can be closed. **The Chair thanked the members of the task force for their efforts.**

TP 102 – The task force member ship is Richard Williammee (Texas) (Chair), Jim Trapanier (Illinois), Barry Paye (Wisconsin), and Bill Ahearn (Vermont). The standard was balloted and adopted. Task force considering all comments. **The Chair thanked the members of the task force for their efforts.**

Task Force 15-01 (T 48) – Task Force members are Eileen Sheehy (New Jersey) (Chair), Maria Knake (AMRL), Bill Bailey (Virginia), Jerry Peterson (Texas), and Ron Horner (North Dakota). Task Force to consider rewrite of T 48. **Eileen is almost finished with a first draft and will send out to the task force in the next few weeks.**

Task Force 15-02 (M 320) – Task force was formed to explore the issue of extending the range of PG grades in M 320 for specialty uses. Members of the task force are Eileen Sheehy (New Jersey) (Chair), John D'Angelo (consultant), Jesus Sandoval-Gil (Arizona), Ala Mohseni (Pavement Systems), and Bill Bailey (Virginia). **Eileen will contact the members of the task force to see if they can set up a conference call to discuss this item.**

V. New Business

- A. Research Proposals – Chris Abadie is the TS 2b Research Liaison. Chris is leaving so we are looking for a new research liaison. **No one volunteered at the meeting, but they can contact the Chair if they would like to act in this capacity. Please support the TS 2b research proposal 2017-D-04 on binder aging if you are also participating in SCOR. TX submitted a synthesis statement on rejuvenation. VT asked that people consider NCHRP proposals for adhesion of asphalt and non-oxidative hardening.**
- B. AMRL/CCRL Issues – Discuss any new comments.
 - John Malusky – AMRL has gathered some information regarding the MSCR testing and PSP data. John will have a presentation of findings. **John reviewed the latest results of the MSCR and discussed differences between manufacturers on % difference in Jnr, Jnr at 0.1 kPa, % difference in recovery, and % recovery at 0.1 kPa. He also mentioned that % difference may not be a good way to evaluate conformance for laboratory accreditation purposes. One manufacturer recommended that AMRL use a different method of analysis for the MSCR (ASTM D4460). This is not appropriate because it is intended to establish precision estimates when the results are obtained using test methods that have their own precision estimates. Please submit any feedback and recommendations to John Malusky at jmalusky@amrl.net. The Chair thanked John for working on this after the issue was brought up during the last meeting. The presentation is in Appendix B of these minutes.**
- C. NCHRP Issues
- D. Correspondence, calls, meetings/ Presentation by Industry
 - Rick Bradbury (Maine) – See Attachment #3. NEAUPG is looking at R 15 *Asphalt Additives and Modifiers*. The Chair will follow up with them regarding any proposed changes. **Nothing to review at this time.**
 - Tim Ramirez (Pennsylvania) – T 51 *Ductility of Asphalt Materials* refers to ASTM D113-07 which has been withdrawn. Action is needed on T 51. **We can leave it as is or update the standard to an A standard. No one volunteered to take this on. Maria (AMRL) indicated that this standard will be reinstated at ASTM.**
 - Darren Hazlett (Texas) – Texas has developed a PG Binder type specification for surface treatments. See Attachment #4 for the proposed standard and Attachment #5 for a presentation. TS to consider this proposed new standard. **TX uses a lot of these materials and surface treatments on their roads. TX looked at how these are being used, climate,**

performance, etc. and came up with some specifications. Colin (RI) said that the ETF is also working on this. The Chair asked if there is any interest in TS 2b pursuing this. Eric (OH) is also interested. Darin (TX) reminded everyone that this is being proposed at this TS because this is hot-applied binder instead of just emulsified asphalts. Bill (VT) commended the work of TX. OR approved the motion to put this out to a TS ballot. VT seconded this motion. Colin asked if there is something that can be shared with the TS on emulsions (2a) so they know what is going on. Eileen said that this will be brought up and has been shared with the Chair of 2a, Ron Horner (ND). Peter (GA) said that GA is seeing something similar to what TX is doing. No one objected to having this balloted as a TS ballot.

- Matt Corrigan (FHWA)
 - Elastic Response with MSCR – See Appendix D. The ETG is proposing a separate standard practice for evaluating elastic response: The ETG is asking the TS to consider accepting this draft standard as a provisional standard or making the non-mandatory information in M332 required language and accepting this draft standard as a full standard. Since most people probably did not have a chance to review this draft thoroughly, and no one had questions or comments. Tanya (FL) volunteered to take a look at this draft standard. Eileen (NJ) and Barry (WI) will also be involved in this new Task Force with Matt (FHWA). Tanya will be assigned as the Chair of this new TF.
 - ETG's activities: See Appendix E for presentation. NAPA is now housing all the meeting information for the ETG (www.asphaltetgs.org). ETG is looking at negative percent recoveries on MSCR due to creep cycle inertia and would like to propose a recommendation to the MSCR test to address this situation. The same task force (Tanya (FL), Eileen (NJ), Barry (WI), and Matt (FHWA)) will look at this recommendation.
 - REOB and ΔT_c : The ETG found that for REOB materials, aging is accelerated and there seems to be a loss of cracking resistance. ΔT_c could be used to track performance and is readily available in the existing data. The amount of REOB generally affects the ΔT_c , but not on all materials. High RAS and RAP/RAS binder replacement can result in more negative values of ΔT_c . A 40-hour PAV requirement is being considered.
 - LTPP Bind – New version and Beta testing. This will go live in July 2016. Weather and environmental data can be enhanced using MERRA data from NASA. FHWA is looking for volunteers to test out this latest version of LTPP Bind. Please contact larry.wiser@dot.gov to get involved. The ETG is also looking at setting a limit on maximum recycle binder ratio values for RAS mixtures. The idea would be that if someone wanted to go over that limit, they would have to test ΔT_c .
- E. Proposed New Standards The following standards will be considered by the TS:
 - PG Binder specification for Surface Treatment (TXDOT sponsored)
 - Elastic Response with MSCR (Binder ETG sponsored)
- F. Proposed New Task Forces
Task Force 16-01 - Tanya (FL), Eileen (NJ), Barry (WI), and Matt (FHWA) – Review ETG recommendations for elastic response, T 350, and M 332.
- G. Standards Requiring Reconfirmation – See Appendix C for the list of standards.
- H. SOM Ballot Items (including any ASTM changes). To be determined at summer meeting.

VI. Open Discussion

VII. Adjourn