

AASHTO TSP-2 – Emulsion Task Force (ETF) Meeting
The Heritage Group Innovation Center and Research Lab
6320 Intech Way, Indianapolis, Indiana
November 28 to 29

Day 1 – November 28, 2018

1. ETF Synopsis

- a. Approval of June 2018 Meeting Minutes (Lubbers): *Approved*
- b. Agenda Review (Lubbers)
- c. ETF Mission and History (Franco) – **Presentation**
 - i. Next steps (short term):
 1. Complete drafting AASHTO standards for remaining emulsion treatments.
 2. Develop QA protocols for emulsion treatments starting with micro surfacing and chip seals.
 3. Complete Draft E/SPG Specifications
 - ii. National forum/process for new products. NTPEP needs national standards and is more for products on state qualified products list. In the past Midwest partnerships proposed APEL for new products but was met with some resistance.
 - iii. Can NTPEP be a forum for approval of rejuvenating agents?

2. Membership Subcommittee Assignments

- a. Task Development
- b. Consideration of New Subcommittees
 - i. Training to Promote Use of Emulsions.
 1. Establishing relationships with other entities (agencies, industry, etc.), documentation of good projects. Leverage existing resources (i.e. roadresource.org)
 2. Need to have accepted standards and QA protocols in place.
 3. Volunteers: Larry Tomkins (Chair), Larry Galehouse, Gayle King, Colin Durante, Mark Ishee, Steve Cross, Kevin McGlumphy, Stormy Brewster, Russ Millan, Travis Walbeck, Shelly Cowley,
- c. Implementation Approach and Strategy
- d. Current subcommittees
 - i. Residue Recovery – Arlis Kardmas
 - ii. Spray Group – Gary Hicks
 - iii. Mixtures Group – Jim Moulthrop
 - iv. QA/Certification – Colin Franco
 - v. Recycling – Steve Cross/Jason Wielinski
 - vi. Research – Darren Hazlett
 - vii. SWG – Mike Voth
- e. Additional/Future Needs
 - i. Support of Specification/Standards – Respond to COMP comments on specification comments.
 - ii. Use of Deliverables
 - iii. Where do rejuvenators fit in?
- f. Process for construction guides for other applications (chip, fog, and micro are complete).
 - i. Requires interaction with QA groups. Follow COMP guidelines work on other 4 portions of specification in parallel. Refer to Walbeck presentation for format.

3. Activity Reports

- a. AEMA/ISSA (Ishee): To stay up to date go to AEMA.org and subscribe to newsletter. Roadresource.org website has gone live. Use as a tool. Soliciting input from all users (industry, agencies, etc.).
 - b. ISSA (Eberly): Rex Eberly and Eric Reimschiessel are the ISSA representatives to ETF. Open invitation to slurry systems workshop January 2019, Clark County NV. The ISSA membership is free for government agencies. Inspector's Manual is currently under review/revision. Detailed quality management plan under development. It will be a tool for industry and agencies.
- c. ARRA (Wielinski): Recently held technical conference in Norfolk, VA. Tech briefs available for CIR project selection on FHWA web page. FDR with emulsion mix design specification recently submitted. CIR/CCPR AASHTO materials and construction guides are under development. NCHRP 9-62 Phase II is in-progress.
- d. Pavement Preservation Partnerships (Galehouse): TSP-2 was formed in 2008, between 46 and 48 states contributing annually. Addresses both pavement and bridge preservation. Partnerships separated by region.
- e. FP2: With election results new highway bill may be on the table, submit ideas to Jim Moulthrop. Encourage people to review data from pavement preservation sections at NCAT and MnROAD.

4. AASHTO Committee on Materials & Pavements (COMP) Update

- a. TS 2a – Emulsified Asphalts (Pfeifer)
 - i. August 2018 – COMP Meeting was held in Cincinnati. Mike Voth discussed EPG/SPG.
 - ii. No new ETF standards discussed in meeting. Updates to paddle viscometer published in August.
 - iii. AASHTO has a new subcommittee to review changes to T59. Is there interest from the ETF in reviewing changes?
 - iv. UTBWC specification was submitted to TS 5b and refers to M316. Sections will coordinate during approval process.
 - v. Approved test methods need to have a precision and bias statement to move from provisional to full standard. ASTM requires a P&B statement and can now use AASHTO Resource (AMRL) data.
- b. TS 5b – Bridge & Pavement Preservation (Walbeck)
 - i. Construction Guidance Spec Approval Process (Presentation).
 1. Task Force 18-01 produced a Layout and Formatting Guide for Construction Specifications.
 2. To find document use Google and enter COMP Task Force 18-01.
 - ii. How do ETF or agency members get involved in discussions? Attend annual meeting, be involved in mid-year webinar. Become a friend of the committee.

Action Items

- Contact TS 2a regarding review of T59 changes.
- Identify liaisons from ETF to AASHTO TS 2a and TS 5b.

5. Polymer Modified Slurry Seals (Eberly) – (Presentation)

- a. ISSA has Performance Guidelines A105 – Slurry Seal, A143 – Micro surfacing
- b. Proposed Performance Guidelines A115 – Polymer modified quick set slurry seal are under development. Will most likely keep Type 1, 2, and 3 aggregate.
- c. Changes are also being proposed to A143 Micro-Surfacing. See presentation for details.
- d. ETF questions/requests of ISSA: Issue of incentives/disincentive recommendations. More guidance for two lift systems.

- 6. ETF Summer Testing Program Results (Anderson) (Presentation)**
 - a. Variability observed was less for AMRL evaluation of recovery method and TxDOT SPG methods. Need to understand causes of variability between 5 labs participating.
 - b. Consider changing frequency range and/or temperatures used in NCSU 5-15 procedure.

- 7. ETF – NCHRP Update (Presentation)**
 - a. NCHRP 9-63 Research Project (Franco)
 - i. Proposals will be received by the end of November.
 - b. Research Subcommittee Problem Statements (Hazlett)
 - i. Two RNS Submitted: 1) Construction specifications for slurry seals and tack coats. 2) The Efficacy of Emulsion-based Rejuvenating Seals. Results pending review.

- 8. Emulsion Certification (Braham) (Presentation)**

- 9. Subcommittee Activity & Breakout Session (Franco)**
 - a. No general updates provided. For specific information contact subcommittee chair.
 - b. The spray group was split into two breakouts 1) Ultra-thin Bonded Wearing Course (UWTBWC) contact Russ Milan, 2) Scrub Seal contact Andrew Hanz

- 10. SuperPave Specs – The Evolution from Then to Now (Huber) (Presentation)**

- 11. Marketing Deliverables Moving Forward (Franco)**
 - a. Will be responsibility of marketing subcommittee

- 12. Summation of Day's Activities (Franco)**

Day 2 – November 29, 2018

1. Rejuvenators – State of Practice (King/Epps-Martin) (2 Presentations)

- a. Applications to emulsions
 - i. Surface treatments: Rejuvenation fog seals, scrub seal, etc.
 - ii. HIR/CIR: Concerned about rejuvenator effectiveness for CIR due to cold temperatures/lack of mobility.
- b. Practical considerations for manufacturing product
 - i. Long term storage stability
- c. Questions on implementation and capabilities to better understand new test methods.

2. Subcommittee Reorganization

- a. Residue – Arlis Kadrmas:
- b. Spray/Mix Construction Guide Specifications – Jim Moulthrop and Gary Hicks:
- c. QA for Construction Guide Specs – Colin Franco
- d. Research – Darren Hazlett
- e. Special Working Group – Mike Voth
- f. Marketing – Larry Tomkins
- g. Rejuvenator Working Group – Russ Millan, Colin Duarte, Andy Clayton, Andrew Hanz, Hassan Tabatabaee, Amy Epps-Martin, Gayle King, Katy Fleury, Andy Bickford

Action Items

- Rejuvenator subcommittee will meet to discuss scope and goals of the committee. Larry Galehouse will organize conference call.
- All subcommittees were encouraged to hold regular calls to maintain progress.

3. Quality Assurance (QA)

- a. Quality Assurance (Franco)
- b. Training & Certification (Galehouse)
 - i. Certification evaluates general knowledge of a given treatment. Quality control plan is for local conditions and practices.
 - ii. What incentives/disincentives would apply for a chip seal? Oregon is using the sand patch test.
 - iii. Warranties were deemed not feasible. Bonding is an issue. It is also difficult to determine the root cause of any problems.
- c. Resource Lab Accreditation Update (Sade)

4. Breakout Reports and Discussion (Subcommittee Chairs)

- a. Breakouts were held for the QA/QC and marketing committees. No general updates provided. For specific information contact subcommittee chair.

5. Summary & Affirming Next Steps (Lubbers/Franco)

Next Meeting: In approximately 6 months. Time and location TBD.