

**Emulsion Task Force
Deliverables Status
TSP²**

A. AASHTO Standards 2010

- Four Standards **submitted** to AASHTO for Adoption
 1. Standard Practice for Certifying Suppliers of Emulsified Asphalt – Provision (PP 71)
 2. Recovering Residue from Emulsified Asphalt using Low Temperature Evaporative Techniques – Provision (PP 72)
 3. Determining Asphalt Binder Bond Strength by Means of the Bitumen Bond Strength Test (BBS) – Provision (PP 91)
 4. Performance-Graded Asphalt Binder for Surface Treatments (Surface Performance Graded (SPG) Spec) – tabled

B. AASHTO Standards 2011

- Six Provisional Standards **submitted** to AASHTO (currently being reviewed by ETF)
 1. Test for Determining the Strain Sensitivity of Asphalt Emulsion Residue Using Strain Sweeps Performed on a Dynamic Shear Rheometer (DSR)
 2. Test for Embedment Depth of Chip Seal Aggregates in the Lab and the Field
 3. Test for Laboratory Chip Loss from Emulsified Asphalt Chip Seal
 4. Test for Measuring Moisture Loss from Chip Seals
 5. Test for Recovery of Asphalt from Emulsion by Stirred-Can Method
 6. Test for Field Emulsion Viscosity

C. Best Practices Document (draft)

7. This was the original deliverable for Chip Seal and Micro-surfacing.

D. Low Temperature Recovery Method

8. Plan for Interlab Study and data collection (ongoing) PP 72
9. Precision and bias study with AMRL for TP 72

Working Status:

A. Micro-surfacing

- Micro Surfacing Design - At AASHTO SOM
- Materials for Micro Surfacing - At AASHTO SOM
- Construction Guide Spec (CGS) – AASHTO/FHWA?
- Best Practices - Forward to FHWA

B. Chip Seal

- Emulsified Asphalt Chip Seal Design Practice - At AASHTO SOM
- Materials for Emulsified Asphalt Chip Seal - At AASHTO SOM
- Construction Guide Spec (CGS) - AASHTO/FHWA?
- Best Practices – Forward to FHWA

C. Emulsion Binder Specifications

- M 140 – Revised to 2014 - At AASHTO SOM
- M 208 – Revised to 2014 - At AASHTO SOM
- M 316 – Revised to 2014 - At AASHTO SOM

D. Slurry Seals

- Design Specifications – Forward to AASHTO
- Design Practice – Forward to AASHTO
- Construction guide specs – In Progress
- Best Practices – In Progress

E. Fog Seals

- Design Specification – Forward to AASHTO SOM
- Design Practice – Forward to AASHTO SOM
- Construction guide specs – In Progress
- Best Practices – In Progress

F. CIR with Emulsion

- Design Specifications – Forward to AASHTO SOM
- Design Practice – Forward to AASHTO SOM
- Construction guide specs – In Progress
- Best Practices – In Progress

QA Protocols – Emulsion 2015:

A. National Accepted Standards:

- Specs (Performance Specs)
- Practices (Design Methods)
- Construction Guide Specs

B. Materials QA:

- Acceptance Testing (Agency)
- QC - Quality Control (Contractor)
- IA - Independent Assurance (Agency)
- New Process / Product Acceptance Procedures

C. Materials Certification:

- Agency Acceptance Plans
- QC Plans (Contractor)
- Vendor Supplied Material Certifications

D. Education and Training:

- Define the training needs for Agency / Contactor Staff
- Education and Training Resources
 - NHI
 - TCCC
 - Industry Sponsored Training
- Certification Program for Contractor Agency Field Staff
 - National Center for Pavement Preservation

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