

Subcommittee on Materials 2d
Proportioning of Asphalt-Aggregate Mixtures

AASHTO Standards Update

FHWA Mixture ETG

April 7th, 2015

Falls River Massachusetts



Subcommittee 2d Proportioning of Asphalt-Aggregate Mixtures

- Upcoming Annual Meeting
 - Pittsburg Pennsylvania;
 - 1st week of August 2015
- MN 2014 and Mid year webinar – Feb 2015
 - New Items Balloted
 - Reviewed 3 Standards
 - Research Needs Statements

Attendance

- 20 members attended out of 48 who belong to the 2d Technical Commitee
- 18 Friends and/or proxies

SOM 2d Ballot Review

- **REVISE R35 “Superpave Volumetric Design for Asphalt Mixtures”**
clarify and provide a consistent definition of Ps, and Simplify VMA formula in sections 9.2 and 9.3.6. and to clarify the different purposes of Section 6.5 and 6.7 – wash and grade aggregate for material characterization.
- Passed with no Negatives

SOM Ballot con't

- **REVISED TP 79** “Determining the Dynamic Modulus and Flow Number for Asphalt Mixtures Using the Asphalt Mixture Performance Tester (AMPT)” – **made changes to the reference equipment specification in Sections 6.2 and 6.3- See page 2 and 29-31 of the minutes and added to Appendix X2 re small sample**
- **Negatives: None ; no comments**

Ballots con't

- **REVISE MP 23 to clarify section 5.1 – (old MP 15) “Reclaimed Asphalt Shingles For Use in Asphalt Mixtures”**
- **Add 5.1 gradation of shingles applies to processed and dry shingles prior to extraction of binder.**
 - Negatives: None ; no comments

Ballots Con't

REVISE T 245 to remove the preparation of specimens – “Resistance to Plastic Flow of Asphalt Mixtures Using Marshall Apparatus”

Negatives: None ; no comments

And add New Standard R 68, “Preparation of Asphalt Mixtures by Means of the Marshall Compactor”,

Negatives: None, however task for was formed to include emulsions and to review metric temperature conversion and other minor edits.

Ballot Summary con't

TP 117 –“Determination of the Voids of Dry Compacted Filler”

- **Misc. re-wording of apparatus (plunger mass, pilot bar procedure, use of depth probe for 2nd height measure)**

Negatives: None; no comments

Ballot review con't

New Provisional Standard TP 116 – “Rutting Resistance of Asphalt Mixtures using Incremental Repeated Load Permanent Deformation (IRLPD)”

- One negative addressed at Mid year meeting.
- Provision passed.

2015 Reconfirmation Ballots

- **R30-02**; moist conditioning of asphalt; Steward: Alabama; reconfirmed 2015.
- **T167**; compressive strength of hot mix asphalt; Missouri _will consider deleting this standard at summer meeting ett.Trautman@modot.mo.gov ----Steward: Idaho.
- **T 246**; resistance to deformation and cohesion of hma by means of hveem; Steward: Nevada. Reconfirmed 2015..
- **T247**; prep of test specimens of hot mix asphalt (HMA) by means of California kneading compactor; Steward: Nevada
- **T340**; determining rutting susceptibility; Steward: Kentucky. Reconfirmed 2015.
- **T342-11** Determining Dynamic Modulus of Hot mix asphalt (HMA) ; Steward: FHWA-reconfirmed

Reconfirmation due in 2016

- T320 ; Determining shear strain and stiffness of asphalt mixtures using the superpave shear tester (SST) ; Steward: Louisiana
- T322-07 Determining Creep compliance and strength of hot mix asphalt (HMA) using Indirect Tensile Test Device ; Steward: Florida
- PP60-14 “Preparation of cylindrical specimen using the Superpave Gyratory Compactor” ; Steward: FHWA
- PP61-13 “Developing Dynamic Modulus Master Curves for Asphalt Mixtures using the Asphalt Mixture Performance Tester(AMPT); Steward: FHWA
- PP 76-13 “Troubleshooting Asphalt Volumetric Differences between Superpave Gyratory Compactors (SGC’s) used in the Design and Field Management of Superpave Mixtures; Steward: FHWA

Reconfirmation review.

- TP79-13 Determining Dynamic Modulus and Flow Number for Asphalt Mixtures using the Asphalt Mixture Performance Tester (AMPT); Steward: FHWA
- TP105-13 “Determining the Fracture Energy of Asphalt Mixtures using the Semi Circular Bend Geometry (SCB) ; Steward: Minnesota
- Other Provisionals PP61, PP76, and TP105 to consider

2015 Publication Cycle

- ETG Recommendations by April/May
- Technical Section Ballot~May
- 2015 SOM Meeting
 - August 1-5, 2015
 - Pittsburg, PN
- SOM Ballot Items **Due by Sept 15, 2015**
- SOM Ballot Issued in **October 2015**
- Revisions Published July 2016