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 Committee

• 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


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](mailto: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