

HMA Update

54th Annual

Asphalt Paving Conference

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MDOT Mission

“Providing the highest quality integrated transportation services for economic benefit and improved quality of life.”

Items to Cover

- Internal Angle Calibration for Gyrotory Compactors
- 2010 Round Robin
- 2010 PWL Specification – FUSP504(C)
- PWL for CPM Projects – FUSP 504(D)
- Mix Design Specification – FUSP 501(F)
- Shoulder Density – FUSP 504(E)
- Longitudinal Joint Density SP

Items to Cover

- Material Transfer Device Policy/FUSP 502(Y)
- HMA Lab & Technician Qualification Program
- 2010 Standard Specifications for Construction
- RAP SP – FUSP 501(G)
- Bond Coat
- RAS
- WMA

Internal Angle calibration

- Required for 2010 Round Robin
- Everyone should be calibrated at this point

2010 Round Robin

- 2010 Round Robin is Underway
- 1/18 - 1/29 #1 sample pickup
- 2/11 #1 test results due from labs
- 2/25 #1 test results resp. & request for explanation of variances
- 3/4 #1 lab written response to committee due
- 3/18 #1 Evaluation of response and email back to lab
- 3/22-26 #2 sample pickup
- 4/1 #2 test results due from labs
- 4/8 #2 test results resp. & request for explanation of variances
- 4/15 #2 lab written response to committee due
- 5/4 Final evaluation

2010 PWL Specification

- No changes for 2010
- Review of data from 2008 – 2010
- 2011 will bring some changes

PWL for CPM Projects

- QA Acceptance Testing
- FUSP 504(D)
- No IPL Required
- Initial QC/QA Correlation
- Warranty SP Will Also Be Included

2010 Superpave Mixture SP

- FUSP 501(F)
- No changes for the 2010 season
- Gyration Levels Looked At

Shoulder Density SP

- FUSP 504(E)
- Tiered Approach

Shoulder Density

- **Tier 1 Shoulder.** A shoulder being constructed over a new base and sub-base. The shoulder may be paved integrally with the mainline or separate. Follow current version of PWL for acceptance

Shoulder Density

- **Tier 2 Shoulder.** A shoulder being constructed over existing base and sub-base with minor or no improvements to the base. The shoulder is paved separately from the mainline. Follow current version of PWL for acceptance.

Shoulder Density

- **Tier 3 Shoulder.** A shoulder being constructed over existing base and sub-base with minor or no improvements to the base. The shoulder is paved integrally with the mainline

Tier 3 Shoulder Density

- **Shoulder Density Lot.** For a Tier 3 Shoulder only, the shoulder density lot is made up of a discrete tonnage of one mixture used for shoulder paving. Each lot is typically made up of five sublots.

Longitudinal Joint Density SP

- Pilot specification for 2010
- Plan For At Least 1 Project In Each TSC
- Incentive and Disincentive
- Pay To Be Established At \$1.00/LF

Longitudinal Joint Density Data

Average	Sn	Average	Sn
88.99	1.29	88.86	1.26
92.95	1.13	87.93	2.15
90.39	0.58	88.49	1.46
91.93	1.05	91.13	1.05
88.23	0.23	90.1	1.72
89.97	0.51	88.54	0.33
89.07	1.72	90.37	0.95
92.93	1.86		

Material Transfer Device

- Initial Policy
 - Limited Access Trunklines
 - Use On Courses With 10,000 Tons
- FUSP 502(Y)
- Committee To Expand Policy
- Evaluation Of Various MTD's/MTV's

FUSP 502(Y)

- 03SP502(Y) HOT MIX ASPHALT (HMA) MATERIAL TRANSFER SYSTEM - Use in all limited access trunkline rehabilitation and reconstruction projects with a single mixture quantity above 10,000 tons. Use in all CPM projects utilizing Gap Graded Superpave mixtures with a single mixture quantity above 10,000 tons

HMA Lab & Technician Qualification Program

- No Issues To Date
- Disputes Have Been Down
- Consultant Prequalification Requirement

2010 Standard Specifications for Construction Division 5

- Drafts to MITA
- Met With John Bescey On Some Initial Items
- Deadline For Industry Comments 3-5-10
- Impasse Issues
- Final Version
- Ready for use in 2011 Construction Season

RAP SP

- FUSP 501(G)
- Changes Coming
- Currently Bump High Temp for Tier 2
- Should be Bumping Low Temp for Tier 2

Bond Coat

- Lack of Adequate Bond Coat
- Check Application Rates
- Document on IDR's

RAS

- Currently Do Not Allow RAS In HMA
- SP Has Been Drafted
- 2 Projects in 2010

WMA

- SP Has Been Drafted
- Permissive SP
- Water Injection or water additive



The End