

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