

PAPA Regional Technical Meeting

March 18, 2025
8:00 AM to 3:00 PM
District 12

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Agenda

1. 2024 Asphalt Mix Testing Results
2. 2024 Longitudinal Joint Density Performance
3. 2025 Planned Construction Projects
4. 2025 – 2026 District Rehabilitation/Reconstruction Projects
5. 2025 Maintenance Asphalt Tons
6. District Use of 9.5 mm, 19.0 mm & 25.0 mm High RAP Mixes for LVR
7. District EPD Status
8. District 6.3 mm & SMA Projects
9. District RAP Mix Percentages
10. District BMD HWTT/IDEAL-CT Implementation
11. District Innovations & Best Practices
12. 2024 District Issues – Problems
13. 2024 District Changes - Direction

2024 Asphalt Mix Testing

Testing:

- 89 Lots- Mixture Acceptance by box sample
- 84 Lots – Density Acceptance by pavement core

Failure:

- 0 AC Content failures
- 0 Gradation failures
 - #xxx 200 Sieve -
 - #xxx Primary Control Sieve -
- 0 Density failures

Retests Requested:

- # Requested = 2
- Retest Results -
 - # passed = 2
 - # failed = 0

2024 Asphalt Mix Testing

Percent Pay:

- AC Content
 - >100%: 60
 - 100%: 10
 - <100%: 19
- Gradation: No. 200 Sieve
 - >100%: 73
 - 100%: 10
 - <100%: 6

Percent Pay:

- Gradation: PCS
 - >100%: 71
 - 100%: 0
 - <100%: 8
- Density
 - >100%: 74
 - 100%: 10
 - <100%: 0

2024 Longitudinal Joint Density Performance

	Longitudinal Joint Density Summary						
Year	2024	2023	2022	2021	2020	2019	2018
Lots Tested	34	43	25	24	12	39	48
% Density Range	87.0 – 99.2	83.2- 98.7	88.8- 98.0	85.1- 98.2	88.4- 97.4	86.7- 99.0	84.4- 97.2
% Average Density	94.6	93.6	94.3	94.5	93.5	93.0	93.3
Incentive Lots	34	11	20	19	33	26	78
100% Payment Lots	0	9	14	10	29	17	80
Disincentive Lots	0	2	6	6	3	9	5
Total \$ for Incentive Lots	224,175	264,375	154,000	147,750	61,868	180,250	184,000
Total \$ for Disincentive Lots	0	0	0	-15,318	0	-1,200	-8,200
Delta (Incentive – Disincentive)	224,175	264,375	154,000	132,432	61,868	179,050	175,800

REF: Section 405 Evaluation of Bituminous Pavement Longitudinal Joint Density and Payment of Incentive/Disincentive

➤ 2024 Longitudinal Joint Density Performance

- **Longitudinal Joint Type**

- **Which joint type is being utilized most?**

- Tapered (Wedge)
 - - We suspect we may get better, or at least equal density with Vertical, however leaving the edge in place over night can potentially cause issues.

- **Are you having any longitudinal joint issues?**

- No issues are being experienced. Avg Jt. Density for the last 25 samples is **94.8%**

➤ 2024 Longitudinal Joint Density Performance

- **Did you or are you planning to use J-Band (Void Reduction Asphalt Membrane VRAM) instead of PUB 408 Section 405? If you specified/utilized, what are your observations?**
- We did a J-Band Pilot on SR906/B10 in 2021. Pilot field views are almost completed. We plan on placing J-Band on ECMS#116293 this year (SR70/23M).

Do contractors or staff in your District need any training on how to construct a quality longitudinal pavement joint?

- No

➤ 2025 Planned Construction Projects

- **List Projects With > 1000 tons of Asphalt Paving**
 - ECMS#121802, Let Date 3/27/25, SR 281, Fayette County, 33,415 Tons
 - ECMS#121804, Let Date 4/10/25, SR 218, Greene County, 26,674 Tons

2025 Planned Construction Projects

- ECMS#121805, Let Date 4/10/25, SR 1010, Washington County, 46,731 Tons
- ECMS#121806, Let Date 4/10/25, SR 993, Westmoreland County, 81,162 Tons

District Rehabilitation Projects

- **Have you bid and/or completed any crack & seat, break & seat, or rubblization projects with asphalt structural overlay in the past few years?**

Bid and completed SR366/20R (ECMS#98449) in 2015. Crack & Seat existing 9" Reinforced Concrete Pavement built in 1972. overlaid with Superpave PG64-22 in one direction and crumb rubber in the other direction.

- **Do you have any projects programmed for 2025 or 2026 or in future construction seasons? If so, where and what is the ECMS#?**
- - None programmed for 2025 or 2026 to date.

District Reconstruction Projects

- **Do you have any highway reconstruction projects programmed to be let for 2025, 2026 or 2027 construction seasons? If so, when (anticipated let date), where (County, SR - Segment – Offsets) and what is the ECMS# (if known)?**
 - 2025 – ECMS#108140, Let Date 6.26.25, SR981 (No quantities yet).

▶ 2025 Maintenance Asphalt Tons (Estimated)

County	9.5 mm	9.5 mm LVR	12.5 mm	19.0 mm	19.0 mm LVR	25.0 mm	25.0 mm LVR
Fayette Co – 1210	500 tons			6,000 tons		300 tons	
Greene Co - 1220	500 tons			100 tons		100 tons	
Washington Co - 1240	1,000 tons			5,000 tons		3,000 tons	
Westmoreland Co - 1250	5,000 tons			500 tons		500 tons	
TOTAL TONS	7,000 tons			11,600 tons		3,900 tons	

LVR = Low Volume Roads



District EPD Status

- **Please discuss your experience with the implementation of the Asphalt EPD Policy & SSP. Are contractors in your District having any issues complying?**
 - No real compliance issues, just a learning curve on how to complete them due to lack of definition and direction with the software from NAPA.

District 6.3 mm & SMA Projects

- **List 2025 6.3 mm Thin Lift projects**
n/a
- **List 2025 SMA Projects & Note those with 10% RAP**
 1. ECMS#116293, Let Date 9/12/24, SR 70, Westmoreland County, 4,985 tons of SMA
- **List any 2025 or 2026 HiMOD SMA Pilot Projects?**
 1. n/a
- **What did you learn from any 2024 HiMOD Projects?**
 - n/a

District 2024 RAP Mix Percentages

- **Please provide average RAP % for the following mixes:**
 - Wearing - 19% - 200,987 total tons produced
 - Binder - 16% - 25,283 total tons produced
 - Base – 18 % - 60,369 total tons produced
 - Average RAP % of all mixes – 19% - 286,640 total tons produced

District 2024 RAP Mix Percentages

- **How do we overcome the impediments to increasing RAP% in the mixes?**
 - Spec more low traffic maintenance mixes when possible: 9.5M, 19BM, 25BM
 - Maybe a more simplified spec like the maintenance mixes that states AC type per percentage, such as less than 20% RAP use 64S-22, 20-30% RAP use 58S-22 to avoid excessive RAP testing by LTS and disparity between producers that got bad reports on one stockpile.
 - Some of our plants are limited by current equipment, such as burner size and baghouse capability. Likely too expensive to upgrade for additional 5%
 - 99% of our virgin material came from 2 plants without RAP capability.

DISTRICT STATUS BMD HWTT/IDEAL-CT TESTING

- **Please discuss District opinion of BMD status & next steps.**
- Our biggest concern here is that statewide we seem to have a belief that our asphalt mixes are too dry leading to early failures. Are we really prepared to allow reduction of AC content based on rutting/HWTT?
- **Please discuss any issues, problems, opportunities, successes, etc. you would care to share?**
- Mainly info gathering at this point.

District Innovations & Best Practices

- **Please discuss any Innovations/Best Practices that you have piloted or recommend.**
 - We are using SMA on all interstate projects

2024 District Issues - Problems

- **Please discuss any issues, problems, etc. that you had with asphalt paving producers or contractors. How did you resolve them?**
 - We don't really have many issues with our producers nor contractors. In most cases they are willing to work with us. But one issue that has happened several times is accepting sampling and application of PWL in situations where the spec is unclear. Such as larger quantities of 25BC which falls under lot/core acceptance however it may be placed in 10-ton patches all over the road making hard to get representative samples.

2025 District Changes - Direction

- **Please list - discuss any District changes to policy, specifications, special provisions, etc. that are relevant to the asphalt paving industry.**
 - ✓ None at this time

- **Any staff changes since last year?**
 - ✓ None

Audience Questions/Comments???



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