

PAPA Regional Technical Meeting

March 21, 2024
8:00 AM to 3:00 PM
District 5

Len Walutes
District Materials Manager
(610) 871-4424
lwalutes@pa.gov



Agenda

1. 2023 Asphalt Mix Testing Results
2. 2023 Longitudinal Joint Density Performance
3. 2024 Planned Construction Projects
4. 2024 District Rehabilitation Projects
5. 2024 Maintenance Asphalt Tons
6. District Use of 9.5 mm, 19.0 mm & 25.0 mm High RAP Mixes for LVR
7. District eTicketing 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. 2023 District Issues – Problems
13. 2024 District Changes - Direction

2023 Asphalt Mix Testing

Testing:

- **180** Lots- Mixture Acceptance by box sample
- **159** Lots – Density Acceptance by pavement cores

Retests Requested:

- # Requested – 4
- Retest Results -
 - # passed **3**
 - # failed **1**

2023 Asphalt Mix Testing

Percent Pay:

- AC Content
 - >102%: 104
 - 100%: 13
 - <100%: 38
- Gradation: No. 200 Sieve
 - >102%: 115
 - 100%: 13
 - <100%: 27

Percent Pay:

- Gradation: PCS
 - >102%: 103
 - 100%: 1
 - <100%: 39
- Density
 - >102%: 78
 - 100%: 44
 - <100%: 37

2023 Asphalt Mix Testing

Testing:

- 180 Lots- Mixture Acceptance by box sample
- 159 Lots – Density Acceptance by pavement core

Failure:

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

Retests Requested:

- # Requested – 4
- Retest Results -
 - # passed 3
 - # failed 1

Performance

	Longitudinal Joint Density Summary					
Year	2023	2022	2021	2020	2019	2018
Lots Tested	8	14	8	10	1	3
% Density Range	85.7-94.3	88.9-97.5	90.4-96.8	89.6-97.3	91.4-95.1	87.4-92.9
% Average Density	90.5	93.1	93.5	92.2	93.9	91.0
Incentive Lots						
Zero Lots						
Disincentive Lots						
Total \$ for Incentive Lots	10,250	114,000	36,500	0	4,150	40,250
Total \$ for Disincentive Lots	0	0	0	0	0	0
Delta (Incentive – Disincentive)	10,250	114,000	36,500	0	4,150	40,250

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

Performance

- Longitudinal Joint Type
 - Which joint type is being utilized most?
 - Vertical (Butt)
 - Tapered (Wedge) is used most.
 - Are you having any longitudinal joint issues?
 - If so, please explain. Keeping a straight line and away from paint lines.
 - Did you or are you planning to use J-Band (Void Reduction Asphalt Membrane VRAM)? If you piloted, what are your observations?
 - Completed 6 project and have 4 schedule for 2024.
 - Joints are holding up extremely well so far.

2024 Planned Construction Projects

- **List Projects With > 1000 tons of Asphalt Paving**

- ECMS #90569, Let Date 7/11/24, SR 222, Berks County, 16,700 Tons
- ECMS #101786, Let Date 5/09/24, SR 100, Berks County, 21,800 Tons
- ECMS #119756, Let Date 3/28/24, SR 3222, Berks County, 4,000 Tons
- ECMS #101863, Let Date 4/18/24, SR 987, Lehigh County, 2,850 Tons
- ECMS #101864, Let Date 5/09/24, SR 1003, Lehigh County, 3,725 Tons
- ECMS #101675, Let Date 5/09/24, SR 115, Monroe County, 14,400 Tons
- ECMS #109964, Let Date 2/29/24, SR 209, Monroe County, 3,100 Tons
- ECMS #95574, Let Date 5/23/24, SR 209, Monroe County, 37,700 Tons
- ECMS #117914, Let Date 4/11/24, SR 191, Northampton County, 8,500 Tons
- ECMS #86853, Let Date 4/11/24, SR 248, Northampton County, 3,100 tons

District Rehabilitation Projects

- Have you bid and/or completed any crack & seat break & seat projects with asphalt structural overlay in the past few years?
 - If so, please briefly discuss project and any take-aways?
 - SR 33/209 Monroe County completed in 2011, SR 80 in Carbon County completed in 2019.
 - SR 33 visibly is holding up much better than any other section of SR 33 paved around the same time.
 - SR 80 was able to pave 156,00 tons in one paving season and received a \$106,000 IRI bonus
- Do you have any projects programmed for 2024 or 2025?
- SR 209 in Monroe County

2024 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
5-1	6,000	23,281		500	500		
5-2	3,120	18,666		500	500		
5-3	885			500	8,873		
5-4	8,645	27,806		500	500		
5-5	3,674	8,450		500	500		
5-6		500		6,469	9,866		
TOTAL TONS	22,324	79,243		8,969	20,739		

LVR = Low Volume Roads

District eTicketing Status

- Please discuss your experience with Asphalt eTicketing Projects.
 - Pluses: No uploading tickets for records/Web Portal.
 - Minuses:
 - Recommendations
- Are contractors in your District ready to implement this October?
- Most should be ready.

District 6.3 mm & SMA Projects

- List of 2024 6.3 mm Thin Lift projects
 1. None
- List of 2024 SMA Projects
 1. SR 78-22M in Berks County
 2. SR 78-12M in Northampton County
(If funding is available)
- Any 2024 or 2025 HiMA SMA Pilot Projects?
No.

District RAP Mix Percentages

- Please provide average RAP % for the following mixes:
 - Wearing - 17% and total tons 254,917/42,995
 - Binder - 17% and total tons 143,925/23,885
 - Base – 20 % and total tons 104,007/20,966
 - Average RAP % of all mixes – 18% and total tons 502,849/87,846
- What are the impediments to increasing RAP% in the mixes?
 - SRL in wearing courses.

District BMD HWTT/IDEAL-CT Implementation

- Please discuss District opinion of owner – contractor readiness to implement BMD.
- We have been getting results for the required mix designs as they are being submitted for acceptance
- Please discuss any issues, problems, opportunities, successes, etc. you would care to share?
- Some producers have acquired their own equipment for testing.

District Innovations & Best Practices

- Please discuss any Innovations/Best Practices that you have piloted or recommend.
 - Fiber Modified Wearing Course (Aramid).
 - Continuing informational coring to assist Pave Design Unit with pavement history accuracy.

2023 District Issues - Problems

- Please discuss any issues, problems, etc. that you had with asphalt paving producers or contractors. How did you resolve them?
 - Mix designs being submitted incorrectly.
 - Working with QC techs to make corrections is time consuming.
 - Rap shortage? Receiving a lot of virgin design submittals.

2024 District Changes - Direction

- Please list - discuss any District changes to policy, specifications, special provisions, etc. that are relevant to the asphalt paving industry.
 - ✓ Nothing from the District.
- Any staff changes since last year?
 - ✓ 2 new TCIs recently hired covering the northern and eastern part of the district.

Audience Questions/Comments???



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