

PAPA Regional Technical Meeting

(Cranberry Twp.)

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District 11

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2019 Bituminous Testing

Testing:

- 106 Lots (25% HOLA) - Mixture Acceptance by box sample
- 99 Lots - Density Acceptance by pavement core

Failure:

- 0 AC failures; 12 Reduced Payment
- 0 Gradation failure; 24 Reduced Payment
- 0 Density failures; 5 Reduced Payment

****Reduced payment doesn't necessarily mean reduced payment for the OLPF****

➤ 2019 Longitudinal Joint Density Performance

| | Longitudinal Joint Density Summary | | | |
|----------------------------------|---|-----------|-----------|----------|
| Year | 2016 | 2017 | 2018 | 2019 |
| Lots Tested | 329 | 354 | 394 | 371 |
| % Density Range | 77.9-98.4 | 85.7-98.5 | 82.9-98 | 81.9-99 |
| % Average Density | 92.8 | 92.8 | 92.8 | 92.8 |
| Total \$ for Incentive Lots | 1,342,870 | 1,229,450 | 1,698,808 | 969,434 |
| Total \$ for Disincentive Lots | (27,474) | (59,060) | (49,120) | (29,461) |
| Delta (Incentive – Disincentive) | 1,315,396 | 1,170,390 | 1,649,688 | 939,973 |

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

➤ 2019 Longitudinal Joint Density Performance

- Longitudinal Joint Type
 - Which joint type is being utilized most?
 - Tapered
 - Which joint type is producing better density?
 - Tapered
 - Are you having any longitudinal joint issues?
 - We had some water bleeding issues.

2019 Percent Within Limits (PWL)

| | District 11 - PWL SUMMARY | | | |
|------------------------------------|---------------------------|--------------|---------------|--------------|
| Year | 2016 | 2017 | 2018 | 2019 |
| Number of PWL Projects Let | 9 | 24 | 20 | 24 |
| Number HOLA | 1 | 1 | 0 | 0 |
| Number LTS | 8 | 23 | 20 | 24 |
| Average Pay Factors (%) | | | | |
| Asphalt Content | 102.61 | 102.57 | 101.43 | 102.21 |
| Primary Control Sieve | 100.40 | 100.24 | 101.22 | 96.08 |
| #200 Sieve | 100.82 | 103.27 | 101.50 | 102.92 |
| Density (Cores) | 103.59 | 103.30 | 103.79 | 101.66 |
| Average Density | 94.5 | 94.5 | 94.8 | 94.8 |
| Average Overall Lot Pay Factor (%) | 1.03 | 1.03 | 1.02 | 1.02 |
| Incentive (\$) | \$148,884.75 | \$349,712.36 | \$399,348.28 | \$168,211.04 |
| Disincentive (\$) | -\$20,736.51 | -\$30,260.94 | -\$107,151.32 | -\$55,620.54 |

District Innovations & Best Practices

- Have you tried a 6.33 mm Thin Lift project yet?
 - Yes, we've had a couple over the past few years.
 - The District liked our past projects.
 - Too expensive
- Do you utilize SMA on all Interstate Highways?
 - Yes, we've had good experience with SMA over the years.
 - We've also used SMA on non-interstate, high volume roadways. (SR 51 in the South Hills and SR 19 in the North Hills)

District Innovations & Best Practices

- Are you still having tack coat issues? What tack coat type do you predominantly specify? Why?
 - We use NTT/CNTT and have not had any issues with tracking.
- Have your maintenance forces completed a 19.0 mm for Low Volume Roads mix project yet?
 - Yes, we experienced some segregation issues.

District Innovations & Best Practices

- Will your maintenance forces be piloting 9.5 mm for Low Volume Roads mix project?
 - Yes, but currently don't have any other information.
- Have you bid and/or completed any crack and seat projects/rubblization/asphalt structural overlay in the past few years?
 - Yes, we had crack and seat on SR 28.
 - District modified the Pavement Policy and saved over \$5 million on the project.
 - Crack and seat is preferred over rubblization.

District Innovations & Best Practices

- Please discuss any Innovations/Best Practices that you have piloted or recommend.
 - We piloted a 10% RAP SMA Project (ECMS 91790)
 - PennDOT's first use of 10% RAP SMA
 - Eastbound lanes of SR 885 A45 (Boulevard of the Allies)
 - Approximately 1100 tons of WRSMA95
 - Paving Contractor – Lindy Paving

2020 District Changes - Direction

- Dawn Durst – Promoted to Materials Supervisor effective 2/8/2020
- Adam Krehnovi – Promoted to Materials Manager 1 effective 3/21/20
- We notified our producers that we will not be approving HMA designs starting this year to align with the new 408 changes.
- We also asked our producers to use the new PGAB designations on all 2020 mix designs.
- Construction field staff will be using SampleID app to enter sample information.

Questions/Comments???



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