



# **PAPA Regional Technical Meeting**

## **(Cranberry Twp.)**

March 19, 2019

### **District 10**

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# 2018 Bituminous Testing

## Testing:

- 204 Lots - Mixture Acceptance by box sample
- 175 Lots - Density Acceptance by pavement core

## Failure:

- 17 - AC Failures
- 26 - Gradation Failures
- 2 - Reduced Density PF
- 1 - Defective Density PF

## 2018 Longitudinal Joint Density Performance

	Longitudinal Joint Density Summary		
Year	2016	2017	2018
Lots Tested	14	28	38
% Density Range	87.00% – 97.60%	85.7% - 96.8%	88.8% - 97.1%
% Average Density	92.3%	93.2%	93.0%
Incentive Lots			
Zero Lots			
Disincentive Lots			
Total \$ for Incentive Lots	49,700	123,750	177,500
Total \$ for Disincentive Lots	0	0	0
Delta (Incentive – Disincentive)	49,700	123,750	177,500

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

## ➤ 2018 Longitudinal Joint Density Performance

- Longitudinal Joint Type
  - Which joint type is being utilized most?
    - Vertical – used mostly on low volume, narrow routes.
    - Notched – used mostly on high volume, wide routes.
  - Which joint type is producing better density?
    - Both joint types seem to be achieving expected density and performing as required.

## 2018 Percent Within Tolerance (PWT)

	<b>District 10 - PWT SUMMARY</b>		
Year	2016	2017	2018
Number of PWT Projects Let	16	20	26
Number HOLA	1	1	0
Number LTS	15	19	26
Average Pay Factors (%)			
Asphalt Content	101.77	100.66	101.59
Primary Control Sieve	102.83	100.22	102.25
#200 Sieve	103.89	103.35	102.11
Density (Cores)	103.96	103.79	103.77
Average Density	94.5	94.5	94.4
Average Overall Lot Pay Factor (%)	1.03	1.02	1.02
Incentive (\$)	\$156,313.92	\$150,976.14	\$386,246.90
Disincentive (\$)	-\$4,871.88	-\$3,021.52	-\$37,555.09

## 2019 Planned Construction Projects

### Projects With > 1000 tons of WMA Paving

<b>ECMS #</b>	<b>Let Date</b>	<b>SR</b>	<b>County</b>	<b>Tons</b>
105891	8/23/2018	422	Armstrong	27,700
106254	11/1/2018	80	Jefferson	55,000
109641	2/28/2019	286	Indiana	5,400
106484	2/28/2019	210	Indiana	22,900
91780	3/14/2019	2066	Armstrong	27,720
106515	3/14/2019	36	Clarion	36,500
106485	3/28/2019	22	Indiana	29,000

Note: List may not include all scheduled projects

## ➤ 2019 Maintenance WMA Tons (Estimated)

County	9.5 mm	12.5 mm	19.0 mm	19.0 mm LVR	25.0 mm	37.5 mm
10-1 (Armstrong)	530		22180		400	
10-2 (Butler)	1200					
10-3 (Clarion)						
10-4 (Indiana)	6000		14000			
10-5 (Jefferson)			15000			
TOTAL TONS	7730		51180		400	

LVR = Low Volume Roads

## District Innovations & Best Practices

- Have you tried a 6.3 mm Thin Lift project yet?
  - SR 2012, placed over binder course, performing well.
  - SR 8, placed as a mill and fill, some distresses showing.
- Do you utilize SMA on all Interstate Highways?
  - Butler County SR 79 and Clarion County SR 80.
- Are you having tack coat issues?
  - Did at first with tracking tack onto existing pavements. However - contractors have become more efficient with their applications.
- What tack coat type do you predominantly specify?
  - We give contractors a choice but most have switched to using CNTT/NTT.



## District Innovations & Best Practices

- Have your maintenance forces completed a 19.0 mm for Low Volume Roads mix project yet?
  - Hawbaker supplied our Jefferson County paving crew with WR19BM in 2018.
- Have you bid or completed a LLAP Project?
  - Butler County SR-79 middle section. Testing performed by Rutgers University. Gathering data to develop specifications.
- Have you bid and/or completed any crack and seat projects/asphalt structural overlay in the past few years?
  - No

## District Innovations & Best Practices

- Please discuss any Innovations/Best Practices that you have piloted or recommend.
- ✓ We continue to emphasize focused participation and commitment to our asphalt pre-placement meetings.
- ✓ Contractor, material supplier and inspection staff collectively understand acceptance approach to achieve a positive outcome.

## 2018 District Changes - Direction

- Please discuss any changes to policy, specifications, special provisions, staff, etc. that are relevant to the asphalt paving industry.
- ✓ Continued training of new employees regarding asphalt placement and specifications.
- ✓ Continue field staff entering samples identification forms (TR-447's) into eCAMMS system.
- ✓ Participate in series 400 rewrite of the Publication 408.

# Questions/Comments???

