CS-409EQC (9-18)

pennsylvania
DEPARTMENT OF TRANSPORTATION
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EXTENDED-SEASON PAVING QUALITY CONTROL DOCUMENTATION

(To be Completed by the Material Producer and Contractor Personnel)

PLANT Mix Temperatures **PG grade:**_____ **Action Points:** Lower_____ Upper _____

Date: _____ **JMF:** _____

Temperature checks will be performed by the plant technician at a minimum on the first three loads and once for every five loads thereafter. Plant temperature checks will be documented on this form. Testing frequency will be increased to every load for the next three loads when an action point is exceeded, and may be reduced to once every five loads if all three temperatures fall within action points.

Load	Temp	Load	Temp	Load	Temp

PLANT Haul Unit Inspections **Inspection performed by:**_____

All trucks will be inspected daily to ensure that truck bodies are properly insulated or heated as outlined in Section 409.3(d), tarps or covers are in good condition, adequately cover the entire load, and are fastened to protect the load under all conditions. Truck beds will be inspected to ensure that no debris or loose, cold material is present prior to loading. All truck daily inspections will be documented below including the name of the person performing the inspection and show compliance regarding clean beds, insulation/heated body, tarps covering entire load. Enter the truck number and place a check mark beside each to indicate compliance.

Truck No.	Clean Bed?	Insulation/ Heated Body?	Tarp Covering Entire Load?	Truck No.	Clean Bed?	Insulation/ Heated Body?	Tarp Covering Entire Load?

FIELD Release:

No material will be shipped to the project until the Department Representative on site releases the material from the plant. The contractor's field paving point of contact will review the weather forecast and actual field conditions on site with the Representative and request a material release. The contractor's field point of contact will document the discussion, release time and any concerns expressed by the Representative.

Contractor's field point of contact: _____ **Date:** _____

Representative: _____ **Release time:** _____

Concerns Expressed: _____

FIELD Surface and Ambient Temperature Readings:

Surface and ambient temperatures will be checked in advance of the paver a minimum of once hourly and documented. Note the equipment used for checking the temperature. When portions of the roadway paving are shaded, hourly temperature checks will be performed in the shade. When temperature readings are within 3°F of the specified limits readings will be taken every half hour.

Equipment Used: _____

Time of Temp Reading	Surface Temp.	Ambient Temp.	Shaded Area?	Person Taking Temperature Measurement	Remarks

FIELD Mix Temperatures: **Action Points:** Lower_____ Upper _____

Date: _____ **JMF:** _____

Mix QC temperature checks will be performed at a minimum on the first three loads and once for every five loads thereafter and documented. When an infrared thermometer is being used for QC temperature measurement, a calibrated dial thermometer will also be used on the first two measurements to verify the accuracy of the readings with the infrared thermometer. If the infrared thermometer is unreliable, the dial thermometer will be used throughout the placement. Testing frequency will be increased to every load for the next three loads when a temperature reading falls beyond an action point, and may be reduced to once every five loads if all three temperatures fall within action points.

Load No.	Temp.	Equipment Used	Dial Reading	Location *(truck, hopper, behind screed)*	Person Taking Temperature Measurement

Paver Speed (if applicable): **Target Paver Speed: _____ fpm** **Date: _____**

For daily placements with more than 10 loads, the contractor will determine a paver speed target in feet per minute prior to paving which balances material deliveries with available rollers to ensure that the paving operation continues with minimal stoppages of the paver. The contractor will document advanced paver speed targets above as well as hourly measurements of actual paver speeds and the number of times per hour the paver was stopped.

Hourly Increment	Actual Paver Speed (fpm)	Number of paver stops	Person Taking Measurement
1st hour:			
2nd hour:			
3rd hour:			
4th hour:			
5th hour:			
6th hour:			
7th hour:			
8th hour:			
9th hour:			
10th hour:			

Time Available for Compaction:

Time available for compaction will be determined daily for each placement using a software tool such as PaveCool, MultiCool or other paving software. Sufficient rollers will be available to achieve compaction of the mix within the stop rolling timeframe shown on the software. Attach a copy of the output of the software for each day for submission or record the details in the space below.

FIELD Density Gauge Readings: **Date:** _____

A nuclear or electrical impedance gauge will be used to estimate the in-place density of the mixture during compaction. QC measurements of estimated final density at each location will be documented below.

Guage Technician: _____ **Gauge Used:** _____

Estimated Field Density Reading	Station	Lane	Estimated Field Density Reading	Station	Lane