

Section 11.7

ASPHALT CONSTRUCTION INFORMATION FOR CONTRACTOR QUALITY CONTROL

11.7.1 Purpose

The purpose of this procedure is to describe the Department's role when reviewing and verifying Contractor Quality Control (QC) documentation, establishing waste asphalt quantities, and processing Resolution Reports for Asphalt Concrete (AC), Gradation, and Density Cores.

11.7.2 Authority

Sections 20.23(3) (a) and 334.048(3), Florida Statutes (F.S.)

11.7.3 Department's Verification of Quality Control Documentation

The Resident Office (RO) is responsible for ensuring the information submitted in the Asphalt Roadway – Daily Report of Quality Control (QCRR) is accurate. The Engineer is responsible for reviewing and randomly checking the quantities submitted by the QC Technician. The Engineer shall receive Form 675-030-20A, the QCRR - Automated Version - from the Contractor. In addition, the Engineer shall collect all asphalt tickets associated with the report. The Engineer is to ensure that the tickets for each day's production match the report.

Each Contractor is required to record the placement of asphalt on the Contractor's **Quality Control-Roadway Report (QCRR), Form 675-030-20A** – Automated Version as the pavement operation progresses.

Projects let July 2015 or after must use the latest version of Form 675-030-20A, - Automated Version. Corrections will be made by the contractor's QC personnel within the spreadsheet once an error is detected and corrected. Under the "Remarks" section, a notation of the correction should be made.

11.7.4 Contractor and Department – Waste Asphalt Quantity Determination

It is not necessary for the Contractor's truck driver to return to the plant to determine the quantity of "Waste" asphalt remaining in the truck. The Contractor's QC Technician and

the Department's Verification Technician (VT) should concur on the estimated amount left in the truck based on one of the following methods:

(A) Spread Rate

Example:

Determine the waste tonnage with the following information:

- Last load of Asphalt = 21.35 Tons (from Ticket)
- Spread rate on the project = 75 Lbs/SY
- The paved area = 430 SY

$$\begin{aligned} \text{Tonnage Used} &= \frac{(\text{Spread Rate (Lbs/SY)})(\text{Area Paved (SY)})}{2,000 \text{ Lbs/Ton}} \\ &= \frac{(75 \text{ Lbs/SY})(430 \text{ SY})}{2,000 \text{ Lbs/Ton}} \\ &= 16.125 \text{ Tons} \end{aligned}$$

$$\begin{aligned} \text{Waste Tonnage} &= \text{Original Quantity} - \text{Quantity Used} \\ &= 21.35 - 16.125 = 5.2 \text{ Tons} \end{aligned}$$

(B) Visual Inspection

A visual inspection of the remaining asphalt in the truck estimated to the nearest $\frac{1}{4}$ of a truck load

Example:

$\frac{1}{4}$ of a truck load was remaining, which is approximately 5.3 Tons

$$\text{Waste Tonnage} = \frac{\text{Ticket Tonnage}}{4} = \frac{21.35}{4} = 5.3 \text{ Tons}$$

11.7.5 Resolution Reports for AC Content, Gradation, and Density Cores

When the QC Technician's test results and the Department's VT's test results do not compare for a specified test, the QC test results are not verified. Therefore, Resolution Tests (RT) for all sublots in the LOT must be run for each property that does not compare. These RT results are then compared to the QC test results.

If the RT results compare to the QC test results, then accept and pay on QC Test results.

If the QC Test Results do not compare (even if only one subplot QC and RT do not compare), then accept and pay on RT report results. The cost of the Resolution Testing performed by the Department, that do not favor the QC test results, will be deducted from the Contractor's next progress estimate. The District Materials Office will provide the resolution results to the Project Administrator (PA) via email. This email will need to be submitted as the backup documentation to support this deduction.

See **CPAM 11.4, Attachment C**, Example (1) for an example of an e-mail from the District Materials Office to the PA with the number of resolution tests and costs. See **CPAM 11.4, Attachment C**, Example 2 (A) and 2 (B) for examples of reporting cost of resolution testing in SiteManagerAASHTOware Project Construction (PrC).

Note: for FC 5 (Open Graded Friction Course) only AC Content and Gradation tests are subject to resolution testing.

See the State Materials Office Website at the following URL for the latest resolution testing costs. These testing costs can be found under "Resolution Testing Costs for Contracts Let..." at the following link:

<http://www.fdot.gov/materials/navigation/documents.shtm>