

Section 11.2

ASPHALT MIX TEMPERATURE CONTROL

11.2.1 Purpose

To provide a uniform procedure for acceptance of asphalt mix, based on temperature, for both the Asphalt Plant and Asphalt Paving Construction Training Qualification Program (CTQP) Qualified Technician on Contractor Quality Control (CQC) projects.

11.2.2 Authority

Section 334.048 and 20.23(4)(a), Florida Statutes (F.S.)

Section 320 and 330, Standard Specifications for Road and Bridge Construction

11.2.3 Temperature Measurement Procedures

(A) Resident Level Responsibilities

The Contractor's Technician, under the supervision of a CTQP Qualified Asphalt Plant Level II Technician, will take the temperature of the asphalt mix at the plant each day, for each design mix on the first five loads, and one every five loads thereafter. The Florida Department of Transportation's Qualified Asphalt Plant Level I or Level II Technician shall monitor and review the Contractor's plant temperature readings and take additional temperature measurements at a minimum frequency of two per day. Upon delivery of asphalt at the roadway, the Contractor's Technician under the supervision of a CTQP Qualified Asphalt Paving Level II Technician will take temperature readings at the roadway at the same frequency as at the plant. The following procedures should be followed:

- (1) The frequency of the measurement may be increased, as deemed necessary, by the Department's Technician.
- (2) The temperature measurements taken by the Contractor's Technician at the plant shall be compared to the mix design's mixing temperature. The temperature

measurements taken by the Contractor's Technician at the plant shall be recorded on the respective delivery tickets. The temperature measurements taken at the roadway shall be compared to the mix design's compaction temperature. The temperature measurements taken at the roadway shall be recorded on the front of the delivery ticket on the righthand side of the Contractor's Technician's temperature reading taken at the plant.

- (3) The Department's Qualified Plant Technician or Paving Technician will verify Contractor's measurements periodically at a minimum frequency of twice per day.
- (4) Rejection of the hot mix asphalt on the basis of the mix temperature shall be made in accordance with the **Standard Specifications** and necessary corrective action shall be made immediately.
- (5) The Contractor's Technician will record the temperature on the delivery tickets for the loads rejected and notify the Department's Technician of any such rejection. Department's Technician will report any rejected loads on **Form No. 675-030-21, Asphalt Roadway – Verification Report or Form No. 675-030-21A Asphalt Roadway – Verification Report – Automated Version**.

11.2.4 Corrective Action

(A) Resident Level Responsibilities

After corrective action is taken by the Contractor, the Contractor's Technician will monitor the next five loads produced to determine if the corrective action is effective. The Contractor and the Department will continue to monitor the loads until the individual temperature measurements for five consecutive loads are in compliance with Specification requirements at which time the Contractor's Technician can return to monitoring one out of every five loads.