

Construction Advisory

CA 2009-04
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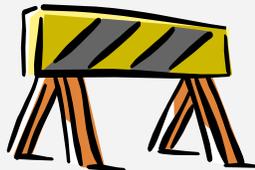
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Construction Advisory
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BJO:CB

Quality Requirements for Performance Warranty Hot Mix Asphalt funded by the American Recovery and Reinvestment Act (ARRA)

To meet AARA risk management objectives, this construction advisory serves as a notification for requirements on performance warranty Hot Mix Asphalt (HMA) projects, as defined by Frequency Used Special Provisions (FUSP) 03SP502(S) and 03SP502(T), funded by ARRA. The requirements contained herein are in addition to those requirements outlined in BOH IM 2009-04, *Contract Administration and Oversight Guidelines for Projects Containing Warranty Work*.

Department Assurance Testing

Assurance testing by the engineer is required for the purpose of making independent checks on the reliability of the contractor's Quality Control (QC) testing. The assurance testing sample shall be a split sample of the contractor's QC test. The department's assurance test and the contractor's QC test values shall be evaluated for correlation using single test tolerances, as shown in Table 504-1 of the *2003 Standard Specifications for Construction*.

Requirements for assurance testing frequency shall be one loose mix HMA sample on the first day of production and one test per 10,000 tons of mix placed thereafter. The contractor shall be required to coordinate with the engineer the location and time the split sample is to be taken. The split sample shall be taken by the contractor. It shall be a minimum of 45,000 grams, which will be split between the contractor and the engineer, who will take immediate possession. Samples will be tested for quality characteristics listed in Table 504-1.

If the test results do not correlate, the contractor and the engineer will jointly review the results, check equipment and review the test procedures for all testing laboratories to determine if there is an identifiable cause for the discrepancy. The contractor shall propose a corrective action plan, as outlined in their QC Plan addressing any deficiencies. Additional split samples will continue at the frequency of 1 per 10,000 tons of HMA material placed, and will be required to meet correlation requirements as noted above throughout the duration of the project.

Contractor QC Plan

In addition to the requirements for contractor QC, as stated in FUSP 03SP502(C), it is recommended that the QC Plan include action and suspension limits for all testing parameters.

Furthermore, in an effort to aid in coordination of the split sampling and testing requirements as noted, the following language is recommended for inclusion into the contractor's QC Plan.

Coordinate with the engineer and obtain a 45,000 gram sample that shall be split, from behind the paver, on the first day of production and every 10,000 tons placed thereafter.

For those QC Plans that have already been approved by the engineer, it is encouraged, by mutual agreement between the contractor and engineer, to amend the QC Plan to include the above language. If concurrence can not be obtained, the engineer shall obtain the split sample at the above noted frequency from whatever sampling method and location is stipulated by the contractor in the QC Plan.

Asphalt Binder Sampling and Testing

The engineer is reminded of the daily sampling and testing requirements in accordance with SP501(C).

Pavement Acceptance

The engineer is reminded of the initial acceptance requirements, timeframes, acceptance factors and possible corrective action detailed in SP502(G).

It is important that proper documentation is complete and on file to ensure federal funds are not jeopardized for ARRA projects.