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March 14, 1994

TECHNICAL MEMORANDUM 70-94

TO: ALL HOLDERS
Testing Manual

FROM: William J. Hartzog *WJH*
Materials and Tests Engineer

Attached is a new procedure, AHD-243-84, Quality Control Program for Bituminous Materials, to be placed in your Testing Manual. This procedure replaces the old AHD-243.

This Technical Memorandum should be filed in the Technical and Advisory Memorandums jacket contained in the manual.

ELM/dh

MAR 15 1994

ALABAMA DEPARTMENT OF TRANSPORTATION
BUREAU OF MATERIALS AND TESTS
AHD-243-84

QUALITY CONTROL PROGRAM FOR BITUMINOUS MATERIALS

1. SCOPE

1.1 The purpose of this procedure is to establish a uniform set of guidelines for the quality control of bituminous materials. The procedure outlines accepted methods to be followed by the Project Engineer, Prime Contractor and Supplier. This procedure applies to all suppliers of bituminous materials for projects in Alabama.

2. DEFINITIONS

- 2.1 Bituminous Materials - Pertains to asphalt cements, cutback asphalts, and asphalt emulsions. Modified asphalt products where additives and related products are added at the supplier's facility may also be considered under this term.
- 2.2 Department - Alabama Department of Transportation
- 2.3 Bureau - Bureau of Materials and Tests
- 2.4 Supplier - This term includes individual refineries, terminals, vendors, and any other companies, agencies or persons supplying bituminous materials for projects in Alabama. Each facility will be treated as a separate entity even when owned by the same parent company.
- 2.5 BMT-164 - "Participation Agreement" form. Executed between the Department and suppliers of bituminous materials. Supplier agrees to abide by Departmental requirements and the Department in turn allows the supplier to sell products for Department projects.
- 2.6 BMT-146 - "Bituminous Material Certificate of Compliance" form. Supplier executes form with each shipment slated for Department projects verifying compliance with Department regulations. Serves as project acceptance certificate.

3. QUALIFICATION PROGRAM FOR SUPPLIER

3.1 The Department will establish and maintain a list of suppliers presently complying with this procedure. Suppliers must be on this list in order to sell their product for Department projects.

- 3.2 Suppliers wishing to be placed on this list must submit a request and any applicable fees, as outlined in the procedure for the list, to the Department.
 - 3.2.1 The Department will make an initial inspection of the facility to determine compliance with the minimum standards as outlined in Department specifications and those listed in this procedure.
- 3.3 Suppliers must comply with the following in order to sell to Department projects.
 - 3.3.1 Each supplier shall execute a "Participation Agreement" (BMT-164). This agreement must be executed by a person or position in the company with responsibility for the overall operation of the facility selling the product to the Department project.
 - 3.3.2 Each supplier must furnish, equip, and staff a laboratory capable of testing all the required parameters for each different type of material supplied (i.e., Asphalt Cement, Asphalt Emulsion, etc.)
 - 3.3.3 A full Analysis (all required parameters) shall be made on each tank or barge of material coming to the facility. All testing shall be in accordance with the current ASTM, AASHTO, or AHD procedures, as specified in the Department Standard Specifications.
 - 3.3.4 Results from the Analysis in Section 3.3.3 shall be submitted to the Department Central Testing Laboratory on a weekly basis.
 - 3.3.5 In addition to the above testing, the supplier shall provide one sample per grade, per week, to the Department for testing. These samples are to be obtained from the supplier's storage tanks. The Bureau will perform the analysis of these samples for each grade.
- 3.4 The supplier will complete and sign a "Bituminous Material Certificate of Compliance" (BMT-146) for each load of material shipped to a state project.
 - 3.4.1 Each transporting vehicle shall be inspected by the supplier prior to loading to ensure that the tank is free of contaminants. This inspection shall include all vehicles whether owned by the supplier or others.

- 3.4.2 The BMT-146 shall contain a statement that this inspection has been made and no contaminants were present when the transport was loaded.
- 3.5 Periodic and unannounced inspections will be made at the supplier's facility by Department Inspectors. The supplier will allow the inspector free access to all test records, production, storage, and testing facilities and shipping documents showing quantities of asphalt and additives loaded on transports.
 - 3.5.1 If a supplier does not supply materials for a period of one-half calendar year, he will be deemed inactive and the sampling schedule will be decreased until shipments are resumed.

4. FIELD SAMPLING AND TESTING

- 4.1 The Project Engineer shall consult the Department's Testing Manual for current information concerning field sampling of bituminous materials.
 - 4.1.1 The Project Engineer, or his representative, shall check shipments and verify that the materials are not contaminated and that they comply with the information on the BMT-146.
 - 4.1.2 Any shipments that are contaminated, or suspect, should be sampled in accordance with 4.1.4. Such shipments should not be allowed to unload unless the Prime Contractor is willing to execute a Material Guaranty (BMT-73).
 - 4.1.3 Shipments that obviously contain a product not shown on the accompanying BMT-146 shall be rejected.
 - 4.1.4 Any field sampling of bituminous materials shall be done in accordance with AASHTO T-40. Samples shall be shipped to the Central Laboratory in the type container prescribed in the current Testing Manual.
- 4.2 Independent assurance samples shall be taken by Division personnel at the frequency set forth in the current Testing Manual. These samples shall be taken from the transporting vehicle only. Samples shall be taken in accordance with AASHTO T-40. Independent assurance samples will be tested at the Central Laboratory to ensure compliance with Department specifications.

5. ACCEPTANCE AND FINAL CERTIFICATION OF BITUMINOUS MATERIALS

5.1 Materials may be accepted on the job site when accompanied by the yellow copy, or a signed duplicate issued by the Testing Engineer, of a "Bituminous Material Certificate of Compliance" (BMT-146), from an approved supplier. These compliance forms will be used in lieu of test reports.

6. FURTHER REQUIREMENTS OF SUPPLIERS

6.1 No supplier shall issue any "Bituminous Material Certificate of Compliance" (BMT-146) forms, unless the material is in full compliance with all requirements of the Department. This applies to all materials whether shipped to State, County or City projects, if state inspected material is required. When County or City requirements differ from the State requirements, the supplier shall not issue a BMT-146 with the load.

6.1.1 Anti-Stripping Agents and other additives shall be added only at the rates prescribed by the Department.

7. NON-COMPLIANCE

7.1 Suppliers presently on List I-4, who fail to comply with any of the requirements listed in this procedure will be subject to the following.

7.1.1 First Offense - Removal from the list for a period of 30 days.

7.1.2 Second Offense - Removal from the list for a period of 180 days.

7.1.3 Suppliers who fail to comply with this procedure over two (2) times during one calendar year will be removed from the list for a minimum period of three (3) years.