

QUALITY PLAN

SCOPE

This method specifies requirements and procedures for certification of materials and Quality Control Plans (QCP) of asphalt emulsion producers, depots and haulers. These requirements and procedures shall apply to materials that meet all relevant specifications for emulsions and initially apply to the manufacturing of Cutback Bitumen, Emulsion, Oxidized Bitumen and/or to terminals or depots where bitumen may be modified. These provisions also apply to the Contractor after delivery of the bitumen / emulsion for use in Road Projects.

REFERENCE DOCUMENTS

AASHTO R 18	: Accreditation Program
AASHTO M 140	: Emulsified Asphalt
AASHTO M 208	: Cationic Emulsified Asphalt
AASHTO T 40	: Sampling Bituminous Materials
AASHTO T 59	: Testing Emulsified Asphalts

TERMINOLOGY

Emulsion – A binder that is emulsified with water in a colloid mill.

Producer – One who produces the final product or who makes the blend or modification that alters the properties of the PG binder.

A Producer shall be a refinery, a terminal or an emulsion producer. If no modification is made to the emulsion after its initial production at the refinery, then, the refinery shall be the Producer and must provide certification.

If there is any modification of the emulsion by the emulsion producer or at a Depot, the emulsion producer or Depot becomes the Producer and must provide the certification. Emulsions shall not be produced or blended at the Hot Mix Asphalt (HMA) plant.

Depot – A company with emulsion holding tanks. This would include any drop tanks at the HMA plant or a transporter of materials if they have holding tanks on their property.

Haulers – Tanker truck proprietors who transport emulsion materials to an SHA construction jobsite.

SAMPLING PROCEDURES

All test samples required by this standard shall be obtained in accordance with T 40.

TESTING REQUIREMENTS

All certification testing required for this standard shall be performed by a laboratory covered by AASHTO / AMRL accreditation. Any satellite laboratory of a Producer or Depot that performs required testing under this standard shall be identified and to be included in this Quality Control Plan (QCP).

PRODUCER'S CERTIFICATION REQUIREMENTS

1. Before any emulsion shipments are made, the Producers may test their products by an independent Laboratory . Any emulsions not tested shall be processed through the Office of Materials Technology by the Customer's lab on site. Each emulsion supplied from the Producer's facility must meet the specification requirements of M 208.
2. The Producer shall allow independent inspectors like Societe Generale de Surveillance (SGS) to visit the production and /or shipping site to observe the Producer's quality control activities and to obtain samples for testing.
3. The Producer may submit a quality control plan which conforms to the requirements of the customer's specification.
4. The Producer shall have a satisfactory record of compliance with project specifications.

PRODUCER'S QUALITY CONTROL PLAN (MINIMUM REQUIREMENTS)

The Producer's QCP shall identify the following

1. Facility type (terminal, in-line) & location
2. Person responsible for quality control .
3. Quality control tests and testing frequency for each type of emulsion.
4. Name of the laboratory performing quality control tests on the emulsion shipped.

Checking transport vehicles before loading to prevent contamination of shipments. (not applicable for drummed shipments)

DEPOT'S CERTIFICATION REQUIREMENTS

1. A Depot is defined as a facility with holding tanks, whether this is an HMA plant or an emulsion transporter's facility.
2. The Depot shall confirm that the Producer who manufactures the emulsion is on the QPL.
3. The Depot shall allow Independent Inspectors to observe the quality control activities and to obtain samples for testing.
4. The Depot shall indicate in their QCP what steps will be taken to ensure the Plan is being followed

DEPOT'S QUALITY CONTROL PLAN (FOR BULK SHIPMENT ONLY)

1. Prior to deliveries of emulsion, the Depot shall submit information on their QCP describing the type of emulsion to be used and that proper packing ,transportation, storage and distribution methods are followed.
2. The Engineer may review the QCP prior to using the material on any projects.
3. Any changes to the emulsion or emulsion handling may require approval.
4. The Depot's QCP shall identify the method for emulsion delivery.
5. Certification of compliance may be provided for every load of emulsion material.
6. The QCP shall detail the following if on-site storage tanks are used at the Depot.

HAULER'S RESPONSIBILITIES (FOR TANK DELIVERIES ONLY)

The hauler of any emulsion material delivered shall be responsible for verifying the type of material in the tanker. Mixing of different classes, types or grades of emulsified asphalt, is prohibited.

The hauler may require to certify that the previous material hauled is not detrimental to the current load. A Bill of Lading and Certificate of Compliance stating that the material being delivered meets all specification requirements for graded asphalt emulsion, (AASHTO Materials Part II, 14th Edition) .