State of Louisiana
Department of Transportation and Development (DOTD)
Materials and Testing Section Approved Materials Procedure
for

HYDRATED LIME AND QUICKLIME

MATERIAL SPECIFICATION REFERENCE:

DOTD Standard Specifications, Subsection 1018.02.

PRELIMINARY REQUIREMENTS:

A manufacturer requesting source approval shall submit a letter for source approval addressed to the DOTD Contact listed below. In addition, the following shall be submitted for each plant location to be approved.

1. A standard "Approved Materials Evaluation Form"
2. An outline of the plant's quality assurance sampling and testing program.
3. A typical analysis (both physical and chemical) representative of the material being produced.
4. A one gallon (4 L) sample of typical production material. The sample shall be placed in a friction top metal can or other moisture-proof container that will insure the sample against contamination.

The Department reserves the right to send a representative to make an on-site inspection of the plant's facilities with emphasis on the method of sampling and handling of samples after they are taken.

General Information

Include all pertinent information relative to the material to be evaluated; including, but not limited to, manufacturer's specifications, typical analysis and a Safety Data Sheet (SDS) if applicable.

TEST REQUIREMENTS:

Laboratory Testing

The approved materials sample will be tested by standard methods as specified in the reference specification.

Field Evaluation

N/A

Total Evaluation Time

Approximately 1 week

GENERAL:

Upon completion of the evaluation, the manufacturer will be notified in writing concerning the results of the evaluation and whether the plant will or will not be added to the Approved Materials List.

If approved, the manufacturer is required to submit a list to the DOTD Materials and Testing Section Coordinator showing plant and terminal representatives authorized to:

1. Sample hydrated lime or quicklime in accordance with this procedure.

2. Sign "Lime Certificate of Delivery" forms which must be completed for each shipment.

3. Sign certificates of analysis for quarterly plant samples as defined herein.

Other requirements for approved plants are as follows:

1. Effective Quality Control program:

The plant's quality control program shall be sufficient to insure that the finished lime possesses uniform characteristics within the Department's specifications. An accurate record of test results representing daily production shall be maintained by the plant.

2. Provide Quarterly Plant Samples:

Each lime plant must provide a quarterly lime sample along with a complete physical and chemical analysis of a representative portion of source material to the Department's Materials Section on a continuous basis in order to maintain source approval. Quarterly samples must be submitted in the months of February, May, August and November.

The sample shall be representative of typical production and the same size as that of the qualification samples.

The plant sample shall be taken regardless of whether lime is being produced for Louisiana projects.

3. Maintain List of Authorized Representatives:

All approved plants and terminals shall submit and maintain a list of representatives authorized to sign documents pertaining to the certification, testing, and shipment of lime.

4. Allow Periodic Inspections By Department Personnel:

The Department may conduct periodic inspections of plant facilities with emphasis on sampling and testing procedures, at the Department's discretion. If a plant inspection is undertaken, the inspector shall have entry at all times to such parts of the plant as may concern the manufacture, sampling, and testing of lime, and shall also have the cooperation and assistance of plant personnel during the inspection. The Department must be notified in writing of any change in material formulation. Significant changes may require reevaluation of the material.

5. Provide "Lime Certificate of Delivery" Forms For Each Shipment:

A completed "Lime Certificate of Delivery" form, supplied by the Department, shall accompany all shipments of lime intended for use on state projects including shipments to distribution terminals or to authorized distributors. A copy of each form shall also be sent to the Materials Engineer Administrator. This form shall be signed by an authorized plant representative. The terminal or distribution manager shall keep the certificate on file and issue a new certificate with each shipment to state projects with a copy of the new certificate mailed to the Materials Engineer Administrator. The terminal's or distributor's records and operations must be such that the lime handled is traceable to a reasonable production period.

6. Seal Conveyances:

The manufacturer's seals shall be placed on all outlets of railroad cars and barges and on discharge ends of truck transports delivering lime to Department projects. This seal must be placed immediately after loading and in the presence of the manufacturer's, terminal's or distributor's authorized representative. The seals shall be intact and in place upon arrival at destination.

The Department's authorized representative shall observe the removal of seals and verify that the seal numbers are the same as listed on the certifications which accompany the shipment.

MATERIAL SAMPLING REQUIREMENTS:

Material Sampling & Acceptance:

1. Verification Tests

The Department's project personnel will sample shipments to State projects in accordance with the Department's Materials Sampling Manual. These samples will be submitted to the Materials and Testing Section for testing in accordance with AASHTO M 216 modified as shown in Subsection 1018.02 of the Standard Specifications.

2. Acceptance

Sealed shipments of lime will be accepted by project personnel based on properly completed "Lime Certificate of Delivery" forms signed by an authorized plant terminal or distributor representative. The Project Engineer, however, will be required to obtain verification samples as indicated above.

PROJECT ACCEPTANCE REQUIREMENTS:

Inclusion of your product on the Approved Materials List is not blanket approval for its use.

All products, regardless of prior approval, shall be sampled in accordance with the Materials Sampling Manual.

DISQUALIFICATION:

The Department reserves the right to remove any source from the approved list at any time confidence is lost in a manufacturer's ability or intent to produce material of uniform characteristics complying with Departmental specifications. Causes for removal from the Approved Materials List may include, but are not limited to the following:

1. Failure of the plant to provide production samples in accordance with this procedure.

2. Failing test results obtained by the Materials Section on consecutive plant samples or project verification samples.

REQUALIFICATION:

Once removed from the Approved Materials List, a source may gain reinstatement by submitting a written request to the Materials Engineer Administrator for reinstatement indicating the causes and solutions to the problem areas which caused removal, and satisfying all of the preliminary requirements shown herein.

After examination of the information gained from above, at the Materials Engineer Administrator's discretion, the source may be reinstated after a minimum period of 3 months from the date of request for reinstatement.

DOTD MATERIALS AND TESTING SECTION COORDINATOR:

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