

**STATE OF OHIO
DEPARTMENT OF TRANSPORTATION**

SUPPLEMENT 1026 - FLY ASH CERTIFICATION

April 18, 2008

1026.01 - Scope

1026.02 – Procedure – Fly ash certification

**1026.03 – Additional requirements for chemically treated High LOI flyash usage
Form S 1026**

1026.01 Scope This supplement outlines the certification of fly ash. Fly ash certification is the approval by the Department for projects to use fly ash, meeting the requirements of 701.00, without being pre-sampled and tested.

1026.02 Procedure

1. The distributor shall initiate a request for certification to the Office of Materials Management by submitting:
 - a) A letter of certification stating the fly ash proposed for certification will meet applicable ODOT specifications.
 - b) Test data developed over the last year on the class of fly ash for which certification is sought.
 - (i) Each class of fly ash and each facility must have separate approval for certification.
 - (ii) Requirement may be waived if the Department currently has data on record.
 - c) Facility's current CCRL inspection report
 - d) ½ gallon sample
 - e) Completed and Notarized Form S-1026 warranting the State against costs involved in corrective action required due to inclusion into work of non-specification or non-certified fly ash. (Form S 1026)
2. The distributor, in requesting certification, agrees to:
 - a) Submit monthly test data from the manufacturing facility to the Office of Materials Management.

- (i) The test data must be in tabular format of the daily production. (Electronic submission preferred)
 - b) Have the facility laboratory inspected each inspection tour by the Cement and Concrete Reference Laboratory, U.S. Bureau of Standards. Submit a copy of the CCRL report and documentation of corrected footnoted items to the Office of Materials Management.
 - c) Maintain and provide upon request records of production control tests for a period of five years.
3. The Office of Materials Management will approve the requested manufacturing facility for certification upon review of the data and completion of sample testing.
4. Following certification:
- a) The fly ash facility must document each shipment of certified fly ash with two original bill-of-ladings that contains the statement:

"ODOT Certified Fly Ash" - In accordance with S-1026.
Fly ash approved for use upon receipt.

The bill-of-lading must also contain the following:

- (i) Class of fly ash
- (ii) Manufacturing Source: City & State
- (iii) Shipping origin
- (iv) Quantity
- (v) Consignee and destination
- (vi) Bill-of-lading Number
- (vii) Date

The two copies of the original bill-of-lading shall be left at the destination for the ODOT representative.

- b) The Department will obtain field samples on a frequency of one sample every 180 days per ready mix plant.
- c) If any two in a series of ten consecutive field samples fail to meet the requirements of the 701 specification, that class may be removed from certification. In addition, the Department may take action under 105.11.
- d) Upon request the fly ash facility will furnish an ODOT representative access to those parts of the plant engaged in the testing, storage, and shipment of fly ash produced for the State projects.

- e) Failure to comply with the requirements of this supplement or failure to meet test standards may result in removal from the certification. In addition, the Department may take action under 105.11.
- f) Fly Ash shipped after removal from certification must be sampled, tested and approved before use.

1026.03 – Additional requirements for providing Chemically Treated Flyash with High LOI flyash.

The distributor will update their original request for flyash certification of 1026.02 to include requesting acceptance of Chemically Treated Flyash with High LOI. The chemical treatment used for treating the high LOI flyash will be a chemical material accepted under Supplement 1115. The undated request will include:

- A. the proposed chemically treated fly ash proposed for certification will meet all applicable ODOT specifications except LOI percent.
- B. The Supplement 1115 chemical treatment to be used and dosage rate tested and required
- C. Test data developed over the last year on the class of fly ash for which certification is sought showing compliance with C618 and showing, in addition, at least monthly reporting of LOI percent. [1] [2]
 - [1] Each class of fly ash and each facility must have separate test data for approval for certification.
 - [2] Requirement may be waived if the Department currently has data on record.
- D. ½ gallon sample of the High LOI treated flyash
- E. Completed and Notarized Form S-1026 warranting the State against costs involved in corrective action required due to inclusion into work of non-specification or non-certified fly ash.

The distributor, in requesting certification, agrees to:

- A. Submit monthly test data from the manufacturing facility to the Office of Materials Management. The test data must be in tabular format of the daily production showing compliance to ASTM C618. Test for chemical properties after application of chemical treatment for high LOI (Electronic submission preferred)
- B. Have the facility laboratory inspected each inspection tour by the Cement and Concrete Reference Laboratory, U.S. Bureau of Standards. Submit a copy of the CCRL report and documentation of corrected footnoted items to the Office of Materials Management.

C. Maintain and provide upon request records of production control tests for a period of five years.

The Office of Materials Management will approve the requested manufacturing facility for certification upon review of the data and completion of sample testing.

Following certification:

A. The fly ash facility must document each shipment of certified fly ash with two original bill-of-ladings that contains the statement:

"ODOT Certified Fly Ash" HIGH LOI - In accordance with S-1026.

Fly ash approved for use upon receipt.

The bill-of-lading must also contain the following:

- (i) Class of fly ash
- (ii) LOI of fly ash
- (iii) Supplement 1115 chemical treatment used
 - 1. dosage
 - 2. Date of treatment
 - 3. Life of treatment
- (iv) Manufacturing Source: City & State
- (v) Shipping origin
- (vi) Quantity
- (vii) Consignee and destination
- (viii) Bill-of-lading Number
- (ix) Date

The two copies of the original bill-of-lading shall be left at the destination for the ODOT representative.

B. The Department will obtain field samples of the High LOI flyash for verification

C. If any two in a series of ten consecutive field samples fail to meet the requirements of the 701 specification, that class may be removed from certification. If any sample fails to show the High LOI chemical treatment certification will be removed. In addition, the Department may take action under 105.11.

D. Upon request the fly ash facility will furnish an ODOT representative access to those parts of the plant engaged in the testing, storage, and shipment of fly ash produced for the State projects.

E. Failure to comply with the requirements of this supplement or failure to meet test standards may result in removal from the certification. In addition, the Department may take action under 105.11.

F. Fly Ash shipped after removal from certification must be sampled, tested and approved before use.

Form S-1026

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

SUPPLEMENT 1026 - FLY ASH CERTIFICATION

_____ hereby requests the following class of fly ash
(Distributor)
be certified in accordance with the Ohio Department of Transportation Supplement 1026.

Class C _____
(Check one)

Class F _____

Class C _____ High LOI with S 1115 treatment
(Check one)

Class F _____ High LOI with S 1115 treatment

The distributor warrants the Ohio Department of Transportation against costs involved in corrective action required due to the inclusion of non-specification fly ash.

Source Name: _____

Source Contact Person: _____

Source Phone: _____ Fax: _____

Source Plant Address: _____

Source Mailing Address: (if different) _____

Source e-mail address: _____

To Be Notarized