

## **ACCEPTANCE POLICY FOR FLY ASH**

### Implementation

The effective date of this policy is April 1, 2000.

### General

These instructions cover the acceptance procedures for all fly ash used in Portland cement concrete supplied for use in Nebraska State Highway construction and maintenance.

The State of Nebraska Standard Specifications, Supplemental Specifications, and Materials Sampling Guide for Highway Construction are a part of these instructions. Fly ash shall comply with Section 1008 of the Standard Specifications. This requirement includes all shipments by rail, truck, or barge supplied directly to contractors through jobbers or ready-mix plants.

### Certified Mill Analysis

Fly ash producers are required to furnish the Materials and Tests Division a copy of their certified mill analysis each time the fly ash produced may be shipped for use in a Nebraska Department of Roads (NDR) project. The certified mill analysis report shall include:

- name of the supplier
- source
- consignee and destination of the shipment
- project number if available
- date shipped
- railroad car or truck identification number
- weight of the shipment
- certified test number representing the material being shipped
- non-repeated order number or other identification number that will separately identify each shipment.

### Approved Products List

Fly ashes on the NDR Approved Products List can be used when received on the project and accompanied by a supplier's certification. The requirements for approval are:

1. Twenty consecutive passing samples composed of five samples each representing at least one day's production, but not less than 100 tons each, tested at the NDR central laboratory. The five samples shall be obtained in a manner that will represent the entire production period.

2. Approved sources must submit composite samples representing each month's production to the NDR central laboratory for analysis prior to shipment. The fly ash shall be sampled and tested in accordance with ASTM C-618. Each sample shall consist of at least 10 pounds of fly ash.
3. If the monthly sample or any field sample is out of tolerance, the supplier shall be notified by the Concrete Materials Engineer. Shipments may not resume until the fly ash is found to be in compliance with the specifications when tested by the Materials and Tests central laboratory.
4. Fly ash in storage over 90 days must be sampled, tested by NDR, and approved prior to shipment. The samples will be considered grab samples and will consist of one 10 pound grab sample for each 400 tons of fly ash. Authorization for shipment will be given if the fly ash may be used in portland cement concrete.
5. If a producer requires testing more often than once per month to maintain shipments, samples may be tested at a certified commercial laboratory, at the producer's expense, and the results sent to Materials and Tests. The test results must be received by Materials and Tests prior to shipment of the fly ash.

### **PLANT SAMPLING PROCEDURE**

The sampling procedure requirement for fly ashes is one (1) sample for each month's production. The sample will be a composite of five samples taken from different locations so that the entire month's production is represented.

Each sample will be shipped in a leak and moisture resistant container, and will be identified with the location and name of the producing plant, type of fly ash, and the date or dates of sampling. Grab samples shall be labeled as such.

The samples are to be shipped to the NDR at one of the addresses below. The producer will be responsible for the cost of shipping.

#### When using the U. S. Postal Service

Portland Cement Concrete Laboratory  
Nebraska Dept. of Roads  
Materials and Tests Division  
P. O. Box 94759  
Lincoln, NE 68502

When using UPS

Portland Cement Concrete Laboratory  
Nebraska Dept. of Roads  
Materials and Tests Division  
1400 Nebraska Highway 2  
Lincoln NE 68502

These guidelines must be strictly followed. If there is any reason this policy cannot be adhered to, contact the Concrete Materials Engineer at 402-479-4755.

**CERTIFICATES OF COMPLIANCE**

Certificates of compliance shall be issued by the producing plants. Copies of the certificates must accompany each load from a terminal. The forms must include the following:

- Name and location of the producing mill
- Consignee and destination of the shipment
- Date shipped from the producing mill (not the date shipped from the terminal)
- Railroad car or truck identification number
- Type of fly ash
- Quantity of fly ash shipped
- Certified test number, date, and bin or silo number

Each form for a truck shipment must include a non-repeated order number or identification number. The following signed certification statement or similar wording must also be included on the form.

This is to certify that this shipment of fly ash was taken from the bin indicated and that it meets the specifications of the Nebraska Department of Roads.

Signed \_\_\_\_\_  
For \_\_\_\_\_

The plant or terminal will send two shipment identification and certification of compliance forms with each shipment. The concrete producer will retain one copy of the certificate of compliance for their records and one will be collected by a state inspector if necessary.

Shipments of fly ash may be randomly sampled by NDR personnel, as directed by the Materials and Tests Division, and tested at the central laboratory in Lincoln.