



INDIANA DEPARTMENT OF TRANSPORTATION Division of Materials and Tests

Directive 401

Portland Cements and Pozzolans

The verification sampling and testing procedures for portland cements and pozzolans will be as follows:

VERIFICATION SAMPLES

The District Testing Engineer will identify the five concrete plants within the District that will have the highest anticipated production of PCC for Department contracts each calendar year. This information will be forwarded to the Division of Materials and Tests Concrete Engineer by April 1st.

Samples of each portland cement and pozzolan will be obtained from the five PCC plants in each District at a frequency of one sample per month until production ceases. Additionally, the District will obtain two samples of cement and pozzolan each month from material sources that were not obtained from the five designated PCC plants. Other PCC plants may be identified for sampling by the Division of Materials and Tests for selective sampling when needed.

SAMPLING

The random sample will be obtained by the concrete plant representative and witnessed by the District technician. The plant representative will be contacted the day before the anticipated sampling day so that proper personnel shall be present to obtain the sample. Samples will represent the portland cement or pozzolan in the PCC mixture that is being produced for use on an active Department contract.

The procedure for obtaining samples will be as follows:

1. The sample will be obtained from the sampling port in the weighing hopper, the sampling port in the cement augering conveyor, or the sampling port at the base of the storage silo.
2. The sampling port shall be cleaned prior to sampling by the PCC plant representative.
3. After the sampling port is cleaned, at least 5 lb (3 kg) of material shall be wasted from the sampling port prior to obtaining the sample.
4. The minimum sample weight will be 10 lb (5 kg) of material.

Samples may also be obtained from the transport vehicle. All applicable information required on form SM 530 will be recorded and the SM 530 shall be signed on the appropriate line by the PCC plant representative and the District technician.

SAMPLE SUBMITTAL

Samples will be submitted in accordance with Directive No. 101.

TESTING

Each sample of portland cement and pozzolan will be tested in accordance with the requirements of Sections 901.01, 901.02, 901.03 or 901.04, as appropriate.

Test results that comply with the Specification requirements will not require further action. Test results not complying with the specified requirements will be immediately reported to the source and plant, and further investigation of the failure will be made.