

## **Section 4108. Supplementary Cementitious Materials**

### **4108.01 FLY ASH.**

- A.** Comply with AASHTO M 295, either Class F or Class C, except the value of available alkalis is not to exceed 1.50% as determined by [Materials I.M. 491.17](#). Sources with fly ash between 1.5% and 2.5% available alkalis may be approved based on satisfactory results of the mortar bar expansion test specified in [Materials I.M. 491.17](#). For Class C fly ash, the pozzolanic activity test with lime will not be required.
- B.** When Class F is required, a Class C fly ash with minimum total oxides ( $\text{SiO}_2 + \text{Al}_2\text{O}_3 + \text{Fe}_2\text{O}_3$ ) of 66% and minimum  $\text{SiO}_2$  of 38% may be used.
- C.** Approval of the source of fly ash will be required. This is to be based on fly ash produced when the power plant is using specific materials, equipment, and processes. Any change in materials, equipment, and processes voids the source approval, and a new approval of the source will be required.
- D.** Inspection and acceptance of fly ash will be according to [Materials I.M. 491.17](#).

### **4108.02 GROUND GRANULATED BLAST FURNACE SLAG.**

Comply with ASTM C 989 Grade 100 or Grade 120. Approval of the source of GGBFS will be required. Inspection and acceptance of GGBFS will be according to [Materials I.M. 491.14](#).