AMRIZE

FLY ASH TEST REPORT

Sample from : Centralia Type F Fly Ash
Average Analysis: August 2026
Test Report Number Centralia-9-26-F

Chemical Analysis

Silicon Dioxide (SiO_2)	**57.7**	%
Aluminum Oxide (Al_2O_3)	**14.6**	%
Iron Oxide (Fe_2O_3)	**5.4**	%
Total (SiO_2) + (Al_2O_3) + (Fe_2O_3)	**77.7**	**%**
Sulphur Trioxide (SO_3)	**0.5**	%
Calcium Oxide (CaO)	**12.7**	%
Magnesium Oxide	**3.1**	%
Moisture Content	**0.11**	%
Loss on Ignition	**1.36**	%
Total Alkalies as Equivalent Na_2O	**2.80**	%

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	**3.2**	%
Fineness Retained on 160 um	**0.0**	
Strength Activity Index with Portland Cement		
% of Control at 7 Days	**81**	%
% of Control at 28 Days *(previous month's result)*	**90**	%
Water Requirement, Percent of Control	**98**	%
Density	**2.68**	g/cm^3
Density, Variation from Average	**0.00**	**%**
Fineness 45um Sieve, Variation from Average	**1.10**	**%**

We hereby certify that the composite fly ash sample above meets the chemical, physical and testing frequency requirements of ASTM C-618 for Class F Fly Ash.

*** Tested at CCIL, ASTM C1077 and AASHTO R18 Accredited Laboratory**

Robert D. Shogren

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