



FLY ASH TEST REPORT

Analysis by: Amrize Seattle Concrete Lab
Sample from : Centralia Power Plant
Average Analysis: August 2025
Test Report Number 9-25 Class F

Chemical Analysis

	Results	Limits
Silicon Dioxide (SiO ₂)	43.5 %	
Aluminum Oxide (Al ₂ O ₃)	16.1 %	
Iron Oxide (Fe ₂ O ₃)	6.0 %	
Total (SiO ₂) + (Al ₂ O ₃) + (Fe ₂ O ₃)	66 %	50% Min - ASTM
Sulphur Trioxide (SO ₃)	1.0 %	5% Max - ASTM
Calcium Oxide (CaO)	12.1 %	18% Max - ASTM
Magnesium Oxide	3.4 %	
Moisture Content	0.23 %	3% Max - ASTM
Loss on Ignition	0.61 %	5% Max
Available Alkali as Equiv. Na ₂ O (<i>previous month's result</i>)	0.57 %	1.5% Max

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	13.4 %	34% Max - ASTM
Strength Activity Index with Portland Cement		
% of Control at 7 Days	98 %	75% Min - ASTM
% of Control at 28 Days (<i>previous month's result</i>)	107 %	75% Min - ASTM
Water Requirement, Percent of Control	93 %	105% Max- ASTM
Density	2.61 Mg/m ³	

Uniformity Requirements

Density, Variation from Average	0.50 %	5% Max - ASTM
Fineness 45um Sieve, Variation from Average	1.10 %	5% Max - ASTM

We hereby certify that the composite fly ash sample above meets the chemical and physical requirements of ASTM C618 and AASHTO M295 for class F fly ash.

Certified : _____

Rob Shogren
Technical Director

WESTERN REGION

5400 West Marginal Way SW, Seattle, Washington 98106-1517
Office: 206.923.0098 or 800.477.0100 Fax: 206.923.0388