LAFARGE NORTH AMERICA

Cement

FLY ASH TEST REPORT

Analysis by: Lafarge Seattle Concrete Lab
Sample from : Centralia Power Plant
Average Analysis: May 2022
Test Report Number 6-22 F CSA

Chemical Analysis

			Limits
Silicon Dioxide (SiO_2)	**47.8**	%	
Aluminum Oxide (Al_2O_3)	**18.0**	%	
Iron Oxide (Fe_2O_3)	**6.2**	%	
Sulphur Trioxide (SO_3)	**1.0**	%	
Calcium Oxide (CaO)	**14.2**	%	15% Max - CSA
Magnesium Oxide	**4.3**	%	
Moisture Content	**0.03**	%	
Loss on Ignition	**0.46**	%	
Total Alkalies as Equivalent Na_2O	**4.80**	%	

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	**13.7**	%	34% Max - CSA
Strength Activity Index with Portland Cement			
% of Control at 28 Days *(previous month's result)*	**102**	%	
Water Requirement, Percent of Control	**92**	%	
Autoclave Expansion	**0.04**	%	
Density	**2.64**	Mg/m^3	

We hereby certify that the composite fly ash sample above meets the chemical and physical requirements of CAN/CSA A3001 for Type 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