LAFARGE
NORTH AMERICA

Cement

FLY ASH TEST REPORT

Analysis by:	Lafarge Seattle Concrete Lab
Sample from :	Centralia Power Plant
Average Analysis:	January 2023
Test Report Number	2-23 F CSA

Chemical Analysis

			Limits
Silicon Dioxide (SiO_2)	**48.2**	%	
Aluminum Oxide (Al_2O_3)	**19.1**	%	
Iron Oxide (Fe_2O_3)	**5.7**	%	
Sulphur Trioxide (SO_3)	**1**	%	
Calcium Oxide (CaO)	**14.6**	%	15% Max - CSA
Magnesium Oxide	**3.8**	%	
Moisture Content	**0.2**	%	
Loss on Ignition	**0.25**	%	
Total Alkalies as Equivalent Na_2O	**4.71**	%	

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	**12.8**	%	34% Max - CSA
Strength Activity Index with Portland Cement			
% of Control at 28 Days *(previous month's result)*	**96**	%	
Water Requirement, Percent of Control	**93**	%	
Autoclave Expansion	**0.05**	%	
Density	**2.66**	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

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