



Cement

FLY ASH TEST REPORT

Analysis by: Lafarge Seattle Concrete Lab
Sample from : Sundance Power Plant
Average Analysis: June 2021
Test Report Number 7-21 F CSA

Chemical Analysis

| | |
|--|--------|
| Silicon Dioxide (SiO_2) | 60.1 % |
| Aluminum Oxide (Al_2O_3) | 23.0 % |
| Iron Oxide (Fe_2O_3) | 3.8 % |
| Sulphur Trioxide (SO_3) | 0.1 % |
| Calcium Oxide (CaO) | 8.7 % |
| Magnesium Oxide | 1.3 % |
| Moisture Content | 0.08 % |
| Loss on Ignition | 0.27 % |
| Total Alkalies as Equivalent Na_2O | 3.15 % |

Physical Analysis

| | |
|--|----------------------|
| Fineness Retained on 45 um (No. 325 Sieve) | 26.0 % |
| Strength Activity Index with Portland Cement | |
| % of Control at 28 Days (<i>previous month's result</i>) | 85% % |
| Water Requirement, Percent of Control | 95 % |
| Autoclave Expansion | 0.00 % |
| Density | 1.99 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

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