

PAE Fly ash B



COMMERCIAL TESTING & ENGINEERING CO.

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SINCE 1908*



Member of the SGS Group (Société Générale de Surveillance)

May 30, 2002

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TENNESSEE VALLEY AUTHORITY
1101 Market Street PSC 1A
Chattanooga TN 37402
RENEE B. MERRELL

SAMPLE No.: 257756
SAMPLE TYPE: UNIT 3 HOPPERS
REMARKS: FLY
Insufficient amount of sample to
perform the Carbon, Hydrogen, Nitrogen

Date Received March 5, 2002
Analysis report no. 72-470153

PROXIMATE ANALYSIS

ULTIMATE ANALYSIS

	As Received	Dry Basis
% Moisture	0.73	xxxxxx
% Ash	98.37	99.09
% Volatile	< 0.01	< 0.01
% Fixed Carbon	0.89	0.90
Btu/lb	< 99	< 100
% Sulfur	3.72	3.75
MAF Btu/lb	10989	

	As Received	Dry Basis
% Moisture	0.73	xxxxxx
% Carbon	xxxxxx	xxxxxx
% Hydrogen	xxxxxx	xxxxxx
% Nitrogen	xxxxxx	xxxxxx
% Sulfur	3.72	3.75
% Ash	98.37	99.09
% Oxygen	xxxxxx	xxxxxx
	100.00	100.00

ANALYSIS OF ASH % Weight Ignited Basis

Silica, SiO ₂	29.52
Alumina, Al ₂ O ₃	17.43
Titania, TiO ₂	1.40
Ferric Oxide, Fe ₂ O ₃	16.24
Lime, CaO	19.17
Magnesia, MgO	3.97
Potassium Oxide, K ₂ O	1.36
Sodium Oxide, Na ₂ O	0.96
Sulfur Trioxide, SO ₃	7.20
Phosphorous Pentoxide, P ₂ O ₅	1.93
Strontium Oxide, SrO	0.17
Barium Oxide, BaO	0.58
Manganese Oxide, Mn ₃ O ₄	0.07
Undetermined	0.00
Alks. as Na ₂ O, Dry Coal Basis	1.84
Base:Acid Ratio	0.86
T250 Temperature	2032

Silica Value	42.84
Type of Ash	LIGNITIC
Fouling Index	0.96
Slagging Index	0.00
% MAF Fixed Carbon	98.90
% MAF Volatile	1.10
lb SO ₂ /mm Btu	751.52
lb Sulfur/mm Btu	375.76



Certificate No. 7061/1

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Denver Laboratory

