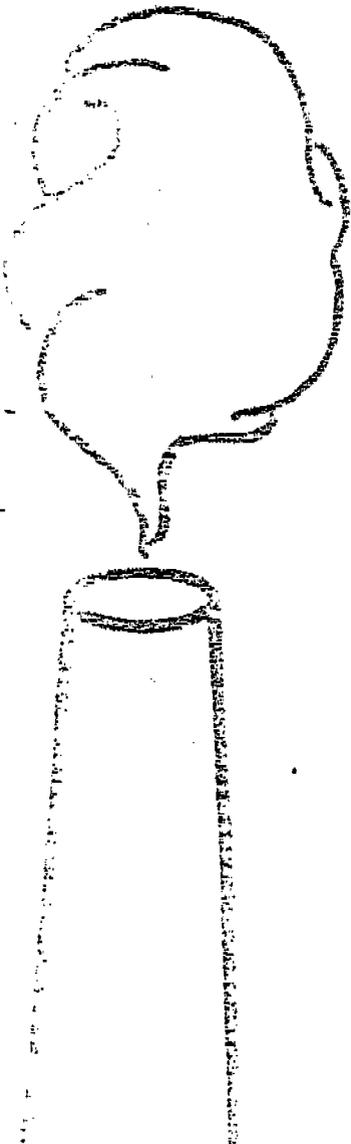


Note: This is a reference cited in AP 42, *Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources*. AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference may be from a previous version of the section and no longer cited. The primary source should always be checked.

AP-42 Section	<u>11.6</u>
Reference	<u>35</u>
Report Sect.	<u>4</u>
Reference	<u>25</u>

COMPLIANCE STACK TEST
LONESTAR FLORIDA/PENNSUCO, INC.
REPORT 387-S KILN No. 3
July 1981



South Florida Environmental Services, Inc.
8211-6 Bama Lane West Palm Beach, Florida 33406 305 / 793-4481

Source category: Portland Cement
 Plant name : Lonestar Florida/Pennsuco, Inc.
 Test date : 7/15/81
 Process : wet

Date: 01/22/93
 Location: Miami, FL
 Ref. No.: 29
 Basis for process rate : feed
 Ratio: 1.58

Source	Type of control	Pollutant	Run No.	Emission rate, lb/hr	Process rate, ton/hr	Emission factor		Volumetric flow rate, DSCFM	Concen ppm
						kg/Mg	lb/ton		
rotary kiln	ESP	BASED ON FEED RATE							
		fit. PM	1	23.75	144.7	0.0821	0.164		
		fit. PM	2	15.54	144.7	0.0537	0.107		
		fit. PM	3	14.43	144.7	0.0499	0.100		
		AVERAGE					0.0619	0.124	RATING: C
		SO2	1	630.26	144.7	2.18	4.36		
		SO2	2	487.99	144.7	1.69	3.37		
		SO2	3	398.53	144.7	1.38	2.75		
		AVERAGE					1.75	3.49	RATING: C
		NOx	1	296.63	144.7	1.02	2.05		
		NOx	2	373.45	144.7	1.29	2.58		
		NOx	3	541.10	144.7	1.87	3.74		
		NOx	4	442.79	144.7	1.53	3.06		
		NOx	5	648.04	144.7	2.24	4.48		
		NOx	6	628.59	144.7	2.17	4.34		
		NOx	7	688.47	144.7	2.38	4.76		
		NOx	8	638.21	144.7	2.21	4.41		
		NOx	9	554.31	144.7	1.92	3.83		
		NOx	10	705.13	144.7	2.44	4.87		
		NOx	11	771.26	144.7	2.67	5.33		
		NOx	12	701.4	144.7	2.42	4.85		
		AVERAGE					2.01	4.03	RATING: C
		CO2	1	75,465	144.7	261	522	142,783	7.7
		CO2	2	75,590	144.7	261	522	139,047	7.9
		CO2	3	81,440	144.7	281	563	141,923	8.4
		AVERAGE					268	536	RATING: C
		BASED ON PRODUCTION RATE							
		fit. PM	1	23.75	91.7	0.129	0.259		
		fit. PM	2	15.54	91.7	0.0847	0.169		
		fit. PM	3	14.43	91.7	0.0787	0.157		
		AVERAGE					0.0976	0.195	RATING: C
		SO2	1	630.26	91.7	3.44	6.87		
		SO2	2	487.99	91.7	2.66	5.32		
		SO2	3	398.53	91.7	2.17	4.35		
		AVERAGE					2.76	5.51	RATING: C
		NOx	1	296.63	91.7	1.62	3.23		
		NOx	2	373.45	91.7	2.04	4.07		
		NOx	3	541.10	91.7	2.95	5.90		
		NOx	4	442.79	91.7	2.41	4.83		
		NOx	5	648.04	91.7	3.53	7.07		
		NOx	6	628.59	91.7	3.43	6.85		
		NOx	7	688.47	91.7	3.75	7.51		
		NOx	8	638.21	91.7	3.48	6.96		
		NOx	9	554.31	91.7	3.02	6.04		
		NOx	10	705.13	91.7	3.84	7.69		
		NOx	11	771.26	91.7	4.21	8.41		
		NOx	12	701.4	91.7	3.82	7.65		
		AVERAGE					3.18	6.35	RATING: C
		CO2	1	75,465	91.7	411	823	142,783	7.7
		CO2	2	75,590	91.7	412	824	139,047	7.9
CO2	3	81,440	91.7	444	888	141,923	8.4		
AVERAGE					423	845	RATING: C		

- Notes:
1. Feed rate does not include 15 ton/hr insufflation
 2. Sulfur content of coal: 1.33%
 3. C rating based on inadequate documentation.

SUMMARY

PLANT: LONG STAR FLORIDA - DENNISCO

LOCATION: OKEECHOBEE ROAD MIAMI FLORIDA

TEST/IDENTIFICATION 387-S DATE: JULY 1980

TESTING BY: SOUTH FLORIDA ENVIRONMENTAL SERVICES

KILN/COOLER NO. 3

PERFORMANCE

Kiln Production	Ton/Hr.	<u>92</u>	@ <u>1.924</u>	K.F. Factor
Kiln Feed Rate	Ton/Hr.	<u>177</u>		
Fuel Rate (Coal)	Ton/Hr.	<u>NATURAL GAS</u>		BTU/lb.
" " (Oil)	Gal/Hr.	_____		
Fuel Ash	%	_____		
Fuel Sulphur	%	<u>1.33</u>	@ <u>0.10</u>	Kiln Feed S.

KILN (Stack)

ALLOWABLE

Exhaust Part. C	<u>Reference 37:</u>	<u>41.251</u>		
Emission SOX (Kil Concent)	<u>Delete!</u>	<u>1/17.4 #/M</u>	<u>0.3 / 58.4 #/M</u>	<u>(0.3(177+17.5))</u>
Emission	<u>Type of process</u>	<u>361</u>	<u>0.3/58.4 #/M</u>	<u>0.3(177+17.5)</u>
Emission NOX (Kil Concent)	<u>not specified!</u>	_____	_____	_____
Emission		<u>1582 #/M</u>	<u>1/62.5 #/M</u>	

COOLER

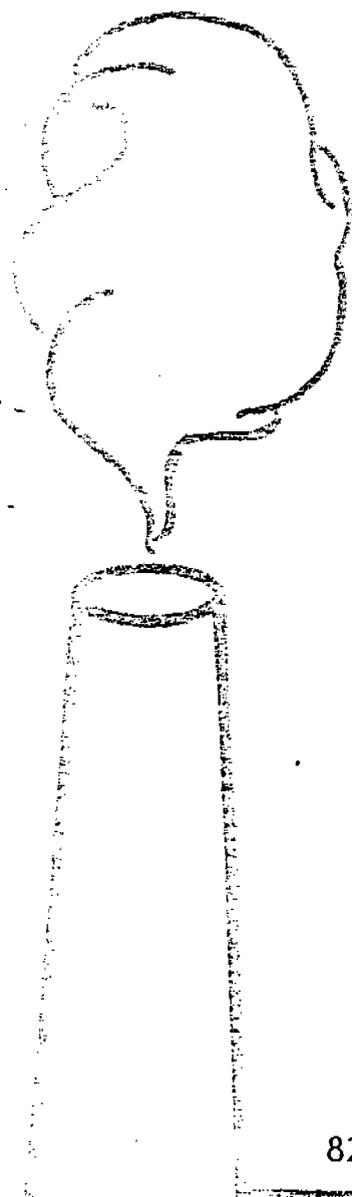
Exhaust (→ WET)

Part. Concent.	lb/SCF	_____
Emission Rate	lb/Ton	_____

NOT USED FOR SAMPLE COLLECTIONS

REMARKS:

COMPLIANCE STACK TEST
LONESTAR FLORIDA/PENNSUCO, INC.
REPORT 387-S KILN No. 3



South Florida Environmental Services, Inc.
8211-6 Bama Lane West Palm Beach, Florida 33406 305 / 793-4481

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INTRODUCTION

INTRODUCTION

Lonestar Florida/Pennsuco, Inc. operates a portland cement plant located on Okeechobee Road in Miami, Florida. In order to control particulate emissions the gases from the kilns pass through electrostatic precipitators.

On July 15, 1981, an emission test was performed on Kiln No. 3 for particulates, Sulfur Dioxide and Oxides of Nitrogen. The test was conducted by representatives of South Florida Environmental Services, Inc.

Testing was performed in accordance with the applicable Environmental Protection Agency Methods 1 through 7 (Federal Register August, 18, 1977), and the State of Florida, Department of Environmental Regulation, Florida Administrative Code adopted April 1981.

According to the stack configuration twenty-four points were selected. The points were divided into four equal traverses and sampled at two and one half minutes per point.

The results of the above mentioned test are reported in the following table.

LONESTAR FLORIDA/ PENNSUCO, INC.
KILN No. 3
REPORT 387-S
JULY 15, 1981

PARTICULATE EMISSION TEST

Average Emissions

Average Allowable Emissions

OXIDES OF

