

EV 000331

March 31, 2000

Mr. Wayne Tutt
Regulatory and Environmental Services Department
Air and Water Quality Division
City Hall at St. James Building
117 W. Duval St., Suite 225
Jacksonville, FL 32202

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APR 03 2000

BUREAU OF AIR REGULATION



RE: St. Johns River Power Park (SJRPP)
Permit No. 0310045-001-AV
U#2 Startup Emissions Report

Dear Mr. Tutt,

Pursuant to discussions with your person, below is listed the excess emissions for the SJRPP Unit #2 startup event of March 29-30, 2000. As we discussed, these emissions are representative of a coal-fired unit startup based upon required operational activities.

Startup		H = Hot (<24 hrs)		SNO = Short Notice Outage		Exc. Time in minutes		COMMENTS
Key		W = Warm (>24<120 hrs)		LTO = Long Term Outage		Value is % OP OR lbs/MMBtu SO2/NOx		
		C = Cold (>120 hrs)				BOLD = Daily Duration		
DATE	EVENT/ PARAMETER	FIRE TIME IN	OUT	EVENT TIME START	STOP	PARAMETER EXC. TIME	VALUE	
								SO2 = 2 hrs. OP = 3 hrs., 30 mins.
03/29/00	Startup/C Opacity	0213	0252	0230	0242	18	80	Precipitator in-service @ 0500 (low pwr) "F" Pulverizer in-service @ 1836 "F" Pulverizer out-of-service @ 1944 OP 18 minutes
03/30/00	SO2			0000	0100	60	1.656	"F" Pulverizer in-service @ 0015
				0100	0200	60	1.098	"C" FGD Tower in-service @ 0241 Bypass Damper closed @ 0247 SO2 1 hr.

These excess emissions shall be included on the 40 CFR Part 60, Subpart Da, Air Emissions Data Assessment Report for this facility at the end of the quarter.

Please contact me at (904) 665-8797 if you have any questions or comments.

Sincerely,
Mark K. Loechelt
Mark K. Loechelt
Environmental Production Assurance Leader

xc: S. Pace, RESD
S. Arif, FDEP
E. Frey, FDEP
H. Oven, FDEP

EV 000323

March 23, 2000

Mr. Wayne Tutt
Regulatory and Environmental Services Department
Air and Water Quality Division
City Hall at St. James Building
117 W. Duval St., Suite 225
Jacksonville, FL 32202

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MAR 28 2000

BUREAU OF AIR REGULATION



RE: St. Johns River Power Park (SJRPP)
Permit No. 0310045-001-AV
U#1 Shutdown/Startup Emissions Report

Dear Mr. Tutt,

Pursuant to discussions with your person, below is listed the excess emissions for the SJRPP Unit #1 shutdown/startup event of March 18-19, 2000. As we discussed, these emissions are representative of a coal-fired unit shutdown based upon required operational activities.

Startup		H = Hot (<24 hrs)		SNO = Short Notice Outage		Exc. Time in minutes		COMMENTS
Key		W = Warm (>24<120 hrs)		LTO = Long Term Outage		Value is % OP OR lbs/MMBtu SO2/NOx		
		C = Cold (>120 hrs)				BOLD = Daily Duration		
DATE	EVENT/ PARAMETER	FIRE TIME IN	OUT	EVENT TIME START	STOP	PARAMETER EXC. TIME	VALUE	
								SO2 = 2 hrs. OP = 3 hrs., 30 mins.
03/18/00	Shutdwn Opacity	2330	2322	2330	2354	30	80	OP = 30 mins.
03/19/00	Startup/H Opacity	1033	1018	0000	0818	504	80	"A" Pulv in-service @ 0725 Precipitators in-service @ 0821 "A" FGD Tower in-service @0835 Bypass damper closed @0841 Note: Power loss to CEM due Unit trip CEM O/S 1036-1530 PLC error - No data available "A" Pulv in-service @ 1109 Precipitators in-service @ 01130 "A" FGD Tower in-service @ 1212 Bypass damper closed @ 1216 OP = 8 hrs., 24 mins.

These excess emissions shall be included on the 40 CFR Part 60, Subpart Da, Air Emissions Data Assessment Report for this facility at the end of the quarter.

Please contact me at (904) 665-8797 if you have any questions or comments.

Sincerely,
Mark K. Loechelt
Mark K. Loechelt
Environmental Production Assurance Leader

xc: S. Pace, RESD
S. Arif, FDEP
E. Frey, FDEP
H. Oven, FDEP

EV 000307

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MAR 14 2000



March 7, 2000

BUREAU OF AIR REGULATION

Mr. Wayne Tutt
Regulatory and Environmental Services Department
Air and Water Quality Division
City Hall at St. James Building
117 W. Duval St., Suite 225
Jacksonville, FL 32202

RE: St. Johns River Power Park (SJRPP)
Permit No. 0310045-001-AV
U#2 Shutdown Emissions Report

PSD - FI - DIOC

Dear Mr. Tutt,

Pursuant to discussions with your person, below is listed the excess emissions for the SJRPP Unit #2 shutdown event of March 3, 2000. As we discussed, these emissions are representative of a coal-fired unit shutdown based upon required operational activities.

Table with columns: DATE, EVENT/ PARAMETER, FIRE TIME IN OUT, EVENT TIME START STOP, PARAMETER EXC. TIME VALUE, COMMENTS. Includes data for Shutdown events on 03/03/00 and 03/04/00.

These excess emissions shall be included on the 40 CFR Part 60, Subpart Da, Air Emissions Data Assessment Report for this facility at the end of the quarter.

Please contact me at (904) 665-8797 if you have any questions or comments.

Sincerely,

Handwritten signature of Mark K. Loechelt

Mark K. Loechelt
Environmental Production Assurance Leader

xc: S. Pace, RESD
S. Arif, FDEP
E. Frey, FDEP
H. Oven, FDEP

EV 000229

CERTIFIED MAIL



February 29, 2000

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MAR 03 2000

Mr. Hamilton Oven, P.E.
Administrator, Power Plant Siting
Florida Dept. of Environmental Protection
2600 Blair Stone Rd.
Mail Station 48
Tallahassee, FL 32399-2400

BUREAU OF AIR REGULATION

RE: St. Johns River Power Park (SJRPP)
Jacksonville Electric Authority (JEA)
Conditions of Certification PA 81-13
Emissions of Carbon Monoxide (CO)
Compliance Certification

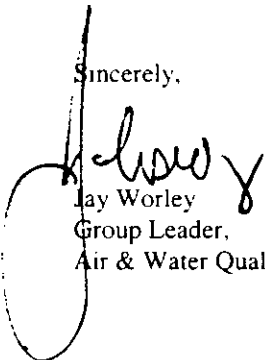
Dear Mr. Oven:

Pursuant to Specific Condition I.A.2.h. of the above referenced Conditions, the permittee shall maintain and submit to the Department on a semi-annual basis for a period of two years from the date the unit is initially fired with petroleum coke, and then on an annual basis (if the first two years of data show no significant increase in carbon monoxide emissions) for an additional three years, information demonstrating that the operational changes did not result in an emission increase of carbon monoxide. The carbon monoxide emissions shall be based on test results using EPA Method 10. Additionally, quarterly continuous emission monitoring data for carbon monoxide emissions shall be submitted to the Department for a period of two years to show the range of emissions experienced during each quarter.

Please find attached the analysis results, as prepared by Kennard Kosky, P.E. (Golder Associates), comparing baseline emissions when firing coal (1997 CEMS) and for the petroleum coke and coal co-firing emissions (1997-1999 EPA Method 10). The 1997-1999 emission rates for CO were similar to the baseline emissions of coal only, which would confirm that significant net increase in emissions did not result from co-firing petroleum coke and coal. Therefore, SJRPP Units 1 & 2 have complied with the above referenced Specific Condition.

Please contact me at (904)665-8729 if you have any questions or require any additional information regarding this request.

Sincerely,


Jay Worley
Group Leader,
Air & Water Quality Production

Enclosure: CO 1999 Compliance Certification

xc: E. Frey, (FDEP)
A. Linero, (FDEP)
W. Tutt, (RESO)
S. Pace, (RESO)

Golder Associates Inc.

6241 NW 23rd Street, Suite 500
Gainesville, FL 32653-1500
Telephone (352) 336-5600
Fax (352) 336-6603



**St. Johns River Power Park (SJRPP); Jacksonville Electric Authority
PSD-FL-010(B); PA 81-13; Final Title V Permit 0310045-002-AV
Co-Firing of Petroleum Coke
Emissions of Carbon Monoxide
1999 Compliance Certification**

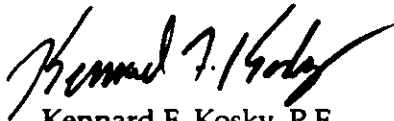
This certification addresses the requirements of Specific Conditions 3.B. of the Prevention of the Significant Deterioration (PSD) permit and Specific Condition D.69. of the Title V permit regarding the increase of emissions when co-firing petroleum coke and coal. As required by Specific Conditions 3.B. and D.69., information must be submitted semi-annually for a period of two years from the date each unit begins co-firing petroleum coke with coal, demonstrating that operational changes did not result in significant emissions increase of Carbon Monoxide (CO). The information must be submitted to the Florida Department of Environmental Protection (FDEP) and City of Jacksonville Regulatory and Environmental Services Department [Air and Water Quality Division (AWQD)]. Additionally, quarterly continuous emission monitoring (CEM) data must be submitted to the FDEP and RESD for a period of two years to show the range of emissions. After two years, if the data show no significant increase in CO emissions, the information must be submitted annually. The CO emissions must be based on test results using EPA Method 10.

In accordance with 40 CFR 52.21 (b)(21)(v) and (b)(33) and 40 CFR 52.21 (b) (33), for an electric steam generating unit the emissions resulting from increased utilization due to electric demand is not included in calculating any emissions increase. Since SJRPP Units 1 and 2 are base load units and their operation is not affected by co-firing petroleum coke and coal, the appropriate comparison is the emissions rates when co-firing petroleum coke with coal and firing coal only.

The initial CO tests conducted during the 1995 initial co-firing of petroleum coke with coal was confounded by the lack of fine tuning the combustion process. Due to this observation, the FDEP included both compliance tests using EPA Method 10 and CEM data in the PSD permit. For the latter, the data taken over two years demonstrated that the CO emissions did not increase.

The most appropriate baseline CO data were determined using CEMs during a period of 1997 when Units 1 and 2 were firing coal. The average CO emission rates during this period were 0.303 lb/mmBtu for Unit 1 and 0.122 lb/mmBtu. The average was 0.213 lb/mmBtu. (See Table 1.)

CO emissions tests using EPA Method 10 were conducted during the two-year period (1997-98) while co-firing petroleum coke with coal. These results are presented in Table 1 and show that the average emissions from the tests were 0.077 lb/mmBtu for 1997 and 0.105 lb/mmBtu for 1998. The tests performed in 1999 averaged 0.1035 lb/mmBtu, which was similar to the results obtained in 1998. Taken together the EPA Method 10 tests performed for coal and co-firing petroleum coke with coal, and the previous CEM comparisons, CO emissions from co-firing petroleum coke with coal are not significantly different from firing coal only. The EPA Method 10 data indicate that there has not been an increase CO emissions as a result of co-firing petroleum coke with coal.



Kennard F. Kosky, P.E.

Principal

Florida Professional Engineer License No. 14996

February 25, 2000

SEAL



Table 1. Summary of Test Data for CO with CEMs and EPA Method 10

Fuel	Date	Unit	CO (lb/mmBtu)
Coal-CEMs	1997	1	0.303
	1997	2	0.122
		Average:	0.213
Coal/Pet Coke	6/4/97	1	0.067
	6/5/97	2	0.114
	11/3/97	1	0.035
	11/4/97	2	0.093
	5/19/98	1	0.278
	5/20/98	2	0.095
	10/12/98	1	0.013
	10/13/98	2	0.032
	6/2/99	1	0.048
	6/3/99	2	0.01
	10/15-18/99	1	0.266
	10/16/99	2	0.09
		Average Unit 1:	0.118
		Average Unit 2:	0.072
		Average Both Units:	0.095
	Average 1997:	0.077	
	Average 1998:	0.105	
	Average 1999:	0.1035	

EV 000218

RECEIVED



February 18, 2000

FEB 21 2000

BUREAU OF AIR REGULATION

Mr. Wayne Tutt
Regulatory and Environmental Services Department
Air and Water Quality Division
City Hall at St. James Building
117 W. Duval St., Suite 225
Jacksonville, FL 32202

RE: St. Johns River Power Park (SJRPP)
Permit No. 0310045-001-AV
U#1 Startup Emissions Report

PSD-FI-010

Dear Mr. Tutt.

Pursuant to discussions with your person, below is listed the excess emissions for the SJRPP Unit #1 startup event of February 15 - 16, 2000. As we discussed, these emissions are representative of a coal-fired unit startup based upon required operational activities.

Table with columns: DATE, EVENT/ PARAMETER, FIRE TIME IN/OUT, EVENT TIME START/STOP, PARAMETER EXC. TIME/VALUE, COMMENTS. Includes data for opacity and SO2 emissions on 02/15/00 and 02/16/00.

These excess emissions shall be included on the 40 CFR Part 60, Subpart Da, Air Emissions Data Assessment Report for this facility at the end of the quarter.

Please contact me at (904) 665-8797 if you have any questions or comments.

Sincerely,

Handwritten signature of Mark K. Loechelt

Mark K. Loechelt
Environmental Production Assurance Leader

xc: S. Pace, RESD
S. Arif, FDEP
E. Frey, FDEP
H. Oven, FDEP