

EV 990402

CERTIFIED MAIL



February 04, 1999

RECEIVED

FEB 10 1999

BUREAU OF
AIR REGULATION

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

RE: St. Johns River Power Park (SJRPP)
Jacksonville Electric Authority (JEA)
Conditions of Certification PA 81-13
Emissions of Particulate Matter (PM) and Nitrogen Oxides (NOx)
Compliance Certification

Dear Mr. Oven:

Pursuant to Specific Condition I.A.2.g. of the above referenced Conditions, the permittee shall maintain and submit to the Department on an annual basis for a period of five years from the date the unit is initially fired with petroleum coke, information demonstrating in accordance with 40 CFR 52.21 (b)(21)(v) and 40 CFR 52.21 (b)(33) that operational changes did not result in emissions increases of nitrogen oxides and particulate matter.

Please find attached the analysis results, as prepared by Kennard Kosky, P.E. (Golder Associates), comparing baseline emissions when firing coal for the two years prior to co-firing (i.e. 1994/1995) petroleum coke and coal with 1998 co-firing emissions. The 1998 emission rates for PM and NOx were less than 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

Director, Environmental & Safety

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

Golder Associates Inc.

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

**Golder
Associates**

St. Johns River Power Park (SJRPP)
PSD-FL-010(B); PA 81-13
Co-Firing of Petroleum Coke
Emissions of Particulate and Nitrogen Oxides
Compliance Certification

This certification addresses the requirements of Specific Condition 3.A. of the Prevention of Significant Deterioration (PSD) permit regarding the increase of emissions when co-firing petroleum coke and coal. As required by Specific Condition 3.A., information must be submitted in accordance with 40 CFR 52.21 (b)(21)(v) and (b)(33) that operational changes did not result in emissions increases of nitrogen oxides (NOx) and particulate matter (PM). According to 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 in pounds per million Btu heat input (lb/mmBtu) when co-firing petroleum coke and coal.

The baseline emissions when firing coal for the two years prior to co-firing (i.e., 1994/95) petroleum coke and coal were 0.0154 lb/mmBtu for PM and 0.52 lb/mmBtu for NOx (reference Annual Operating Reports for 1994 and 1995). Baseline tests performed in July and August, 1995 during the Co-firing Trial Test Burn were 0.00715 lb/mmBtu for PM and 0.498 lb/mmBtu for NOx. The average NOx emissions in 1996 while firing predominantly coal was 0.51 and 0.53 lb/mmBtu for Units 1 and 2, respectively.

In 1997, the emissions of PM were 0.005 lb/mmBtu for both Units 1 and 2 and the emissions of NOx were 0.48 lb/mmBtu for both units. For 1998, the PM emission rates from the annual compliance tests were 0.008 and 0.005 lb/mmBtu, respectively. The NOx emissions for 1998 were 0.486 and 0.478 lb/mmBtu for Units 1 and 2, respectively. These emissions rates are less than the baseline emissions for coal only which would confirm that a significant net increase in emissions did not result from co-firing petroleum coke and coal. Therefore, SJRPP Units 1 and 2 have complied with the Specific Condition 3.A. of the PSD approval.

Kennard F. Kosky, P.E.
Principal
Florida Professional Engineer License No. 14996
February 1, 1999

SEAL

EV 990402

CERTIFIED MAIL

February 04, 1999

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



RE: St. Johns River Power Park (SJRPP)
Jacksonville Electric Authority (JEA)
PSD -FL-010(B)
Conditions of Certification PA 81-13
Emissions of Carbon Monoxide (CO) and Sulfuric Acid Mist (H_2SO_4)
Demonstration of No Significant Emissions Increase - Compliance Certification

Dear Mr. Oven:

Pursuant to PSD Condition 3.B. and Specific Condition I.A.2.h. of the above referenced Conditions, "the permittee shall maintain and submit to the Department on a semiannual 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 changes did not result in a significant increase of carbon monoxide". In addition, pursuant to PSD Condition 3.C. and Specific Condition I.A.2.i. of the Conditions, "the permittee shall maintain and submit to the Department on a semiannual basis for a period of two years from the date a unit is initially co-fired with petroleum coke, information demonstrating that the operational changes did not result in significant increases of sulfuric acid mist.

Please find attached the analysis results, as prepared by Kennard Kosky, P.E. (Golder Associates). Mr. Kosky concludes that the data indicate that CO emissions from co-firing petroleum coke with coal are not significantly different from firing coal only and that there has not been an increase in CO emissions as a result of co-firing petroleum coke with coal. Therefore, SJRPP Units 1 & 2 have complied with PSD 3.B. and Specific Condition I.A.2.h. of the above referenced Conditions and will now reduce from semiannual CO emission testing and data submittal to annual testing and submittal for the next three years.

In addition, Mr. Kosky concludes that these data confirm that a significant net increase in sulfuric acid mist emissions has not resulted from co-firing petroleum coke and coal over the two year period from the date the units were initially co-fired with petroleum coke. Therefore, SJRPP Units 1 & 2 have complied with PSD Condition 3.C. and Specific Condition I.A.2.i. of 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
Director, Environmental & Safety

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



St. Johns River Power Park (SJRPP)
PSD-FL-010(B); PA 81-13
Co-Firing of Petroleum Coke
Emissions of Sulfuric Acid Mist and Carbon Monoxide
Compliance Certification

This certification addresses the requirements of Specific Conditions 3.B. and 3.C. of the Prevention of Significant Deterioration (PSD) permit regarding the increase of emissions when co-firing petroleum coke and coal. As required by Specific Conditions 3.B. and 3.C., information must be submitted over a period of two years to demonstrate that operational changes did not result in emissions increases of Sulfuric Acid Mist (H_2SO_4) and Carbon Monoxide (CO). 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.

H_2SO_4

The results of tests to determine H_2SO_4 emissions are summarized in Table 1- H_2SO_4 . This includes the baseline coal tests that were performed in July and August, 1995 during the Co-firing Trial Test Burn and in January and February 1997 while the permit was under review. Also presented in Table 1- H_2SO_4 , are tests conducted in 1997 and 1998 while co-firing petroleum coke with coal. The tests conducted in early 1997 were a result of the Sierra Club agreement and generated information for coal only and co-firing petroleum coke with coal.

The procedure used to evaluate all the H_2SO_4 data was that provided in 40 CFR Part 60 Appendix C for determining an emission change under EPA New Source Performance Standard (NSPS) regulations. The upper and lower confidence intervals are determined using Student's "t" test which is commonly used to compare the means of small sample sizes. This procedure can account for operational variability associated with emission rates and provide statistical comparisons for determining whether differences between mean values exist at a specified confidence level.

Table 1- H_2SO_4 also presents the 95 percent confidence intervals of the mean values. Table 2- H_2SO_4 presents a summary. The results of the baseline tests found average emissions of 7.01 ppm while firing coal. The emissions rates when co-firing petroleum coke with coal were, on the average, 5.55 ppm or about 20 percent less than the baseline emissions for coal only over the two year period (1997-98). The statistical evaluation shows that there is no significant difference between the means of the coal only tests and the tests conducted while co-firing petroleum coke and coal. This conclusion applies to whether each year are

evaluated against the coal only tests (i.e., 1997 or 1998) or whether the data is evaluated against either unit (i.e., Unit 1 or Unit 2). These data would confirm that a significant net increase in emissions has not resulted from co-firing petroleum coke and coal over the two year period from the date the units were initially co-fired with petroleum coke. Therefore, SJRPP Units 1 and 2 have complied with the Specific Condition 3.C. of the PSD approval.

CO:

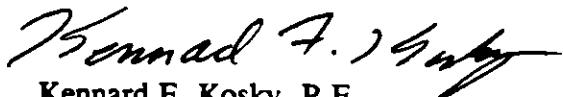
As provided to the Department during the permit review for co-firing petroleum coke with coal, the comparisons of CO emissions for coal only and those during the co-firing test burn were confounded by the variability of CO emissions that normally occur when using any fuel and the lack of combustion adjustments made during the test burn. The latter resulted in higher CO emissions which could have been ameliorated if fine tuning of the combustion process, specific to the co-firing of petroleum coke with coal, had been performed. Such fine tuning would have improved the combustion process while concomitantly producing lower CO emissions. As required in the Department's approval to co-fire petroleum coke with coal, Specific Condition 3.B. of the PSD permit required that EPA Method 10 and CEMS data for CO be submitted and used for the comparisons. Due to the variability in CO concentration during normal operation, CEMS data are most appropriate for evaluating differences between firing only coal and co-firing petroleum coke with coal.

CEMS data for 1998 indicated no significant periods of coal only operation from which comparison could be made. Moreover, in February 1998, the data range on the CEM was changed from 500 ppm to 2,000 ppm. This had the effect of increasing the average CO concentrations, since the very high peak values (> 500 ppm) were not previously recorded. The data for 1996 were also evaluated for use in determining baseline CO concentrations for firing coal only. However, starting in January 1997, SJRPP elected, under the EPA Title IV Acid Rain program, to reduce emissions of NOx thereby confounding the ability to compare data from 1996 with data from 1997. In general, reductions in NOx are followed by an increase in CO concentrations. Indeed, small decreases in NOx concentrations can effect large increases in CO. Therefore, the best data set to evaluate whether the co-firing of petroleum coke with coal resulted in an increase of CO concentrations was the use of the 1997 CO CEMS data. The results are summarized below.

Fuel-Unit	CO Emission Rates (lb/mmBtu)		
	Upper Confidence Interval	Mean	Lower Confidence Interval
Coal - Unit 1	0.561	0.303	0.045
Pet Coke & Coal Unit 1	0.166	0.151	0.135
Coal - Unit 2	0.150	0.122	0.093
Pet Coke & Coal Unit 2	0.146	0.133	0.119

The data represent the averages of daily CO emission rates as provided by the CEMS for both Units 1 and 2 when firing only coal and when co-firing petroleum coke with coal. The upper and lower confidence intervals are also shown, since there is considerable operational variability associated with the daily CO emission rates and such comparisons are appropriate for determining differences between mean values. The procedure used is identical to that provided in 40 CFR Part 60 Appendix C for determining an emission change under EPA regulations.

As shown in the above table, the CO values observed for each unit when co-firing petroleum coke and coal are within the observed ranges when firing only coal. Indeed, the means for both units indicate that firing coal alone would have an emission rate of 0.213 lb/mmBtu, while co-firing petroleum coke with coal would have an emission rate of 0.142 lb/mmBtu. Stack tests using EPA Method 10 were also conducted during the two year period (1997-98) while co-firing petroleum coke with coal. These results are presented in Table 1-CO and show that the average emissions are within the values reported for coal from the CEM data. Taken together, the data indicate that CO emissions from co-firing petroleum coke with coal are not significantly different from firing coal only and 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 1, 1999

SEAL



Table 1-H₂SO₄. Summary of Coal and Co-Firing Test Data for Sulfuric Acid Mist

Fuel	Date	Unit	H ₂ SO ₄ (ppm) ^a	Number of Data	Upper C.I.	Lower C.I.
Coal	1995^b	1	6.19			
	Jan-97	1	6.68			
	Feb-97	1	8.15			
		Average:	7.01	3	8.73	5.29
		Std. Dev.	1.02			
Coal/Pet Coke	Jan-97	1	5.78			
	Feb-97	1	2.86			
	6/4/97	1	4.08			
	6/5/97	2	5.62			
	11/3/97	1	4.15			
	11/4/97	2	3.59			
	5/19/98	1	7.29			
	5/20/98	2	6.83			
	10/12/98	1	9.83			
	10/13/98	2	5.49			
	2-Year	Average:	5.55	10	6.75	4.36
		Std. Dev.	2.06			
	1997	Average:	4.35	6	5.29	3.40
		Std. Dev.	1.15			
	1998	Average:	7.36	4	9.49	5.22
		Std. Dev.	1.81			
	Unit 1	Average:	5.66	6	7.76	3.57
		Std. Dev.	2.55			
	Unit 2	Average:	5.38	4	7.01	3.76
		Std. Dev.	1.38			

^a All tests consisted of 3 runs except 10/12/98 Unit 1; these tests consisted of 6 runs.

^b Tests conducted in July and August of 1995.

^c Confidence Interval (C.I.) = $x \pm t_{\alpha/2} \times s/(n)^{-0.5}$

where: x = average; t = "Students-t" statistic at n-1 degrees of freedom (95%)

s = standard deviation; n = number of data points

**Table 2-H₂SO₄. Summary of Coal and Co-Firing
Statistics for Sulfuric Acid Mist**

	Upper C.I.	Mean	Lower C.I.
Coal	8.73	7.01	5.29
Co-Firing Coal and Petroleum Coke:			
1997/98	6.75	5.55	4.36
1997	5.29	4.35	3.40
1998	9.49	7.36	5.22
Unit 1	7.76	5.66	3.57
Unit 2	7.01	5.38	3.76

**Table 1-CO. Summary of Coal and Co-Firing Test Data
for Carbon Monoxide**

Fuel	Date	Unit	CO (lb/mmBtu)
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
	Average Unit 1:		0.098
	Average Unit 2:		0.084
	Average Both Units:		0.091
	Average 1997:		0.077
	Average 1998:		0.105

Chuck Pauley

Limestone Unloading Performance Test

Date 2-6-98

<u>Time</u>	<u>CT2 TPH</u>	<u>CT2 Total Tons</u>	
700	<u>1116</u>	<u>4174</u>	<u>842</u> 56%
800	<u>688</u>	<u>5016</u>	<u>592</u> 39%
900	<u>1146</u>	<u>5608</u>	<u>868</u> 58%
1000	<u>1083</u>	<u>6476</u>	<u>881</u> 59%
1100	<u>121</u>	<u>7357</u>	<u>847</u> 36%
1200	<u>1010</u>	<u>7904</u>	<u>731</u> 49%
1300	<u>1168</u>	<u>8635</u>	<u>663</u> 44%
1400	<u>Ø</u>	<u>9298</u>	<u>891</u> 59%
1500	<u>1142</u>	<u>10189</u>	483 725 547
1600	<u>1158</u>	<u>10672</u>	75140
1700			
1800			
1900			

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method used (Circle One)	203A	203B	Other _____
--------------------------	------	------	-------------

Company Name ST. JOHNS RIVER POWER PARK		
Facility Name ST. JOHNS RIVER POWER PARK		
Street Address 11201 NEW BRILLIUM ROAD		
City JACKSONVILLE	State FL	Zip 32226

Process SHIP UNLOADING LIMESTONE	Unit #	Operating Mode 59% CAPACITY
Control Equipment WET SUPPRESSION		Operating Mode 0% CAPACITY

Describe Emission Point SHIP UNLOADER HOPPER

Height of Emiss. Pt. Start 80' End 80'	Height of Emiss. Pt. Rel. to Observer Start 35' End 35'
Distance to Emiss. Pt. Start 35' End 35'	Direction to Emiss. Pt. (Degrees) Start 315° End 315°

Vertical Angle to Obs. Pt. Start 45° End 45°	Direction to Obs. Pt. (Degrees) Start 315° End 315°
Distance and Direction to Observation Point from Emission Point Start 0-0 End 0-0	

Describe Emissions Start NONE End NONE	
Emission Color Start NONE End NONE	Water Droplet Plume Attached <input type="checkbox"/> Detached <input type="checkbox"/> None <input checked="" type="checkbox"/>

Describe Plume background Start OPEN SKY End OPEN SKY	
Background Color Start BLUE End BLUE	Sky Conditions Start SCATTERED End SCATTERED
Wind Speed Start 0-3 End 0-3	Wind Direction Start NNE End NNE
Ambient Temp. Start 70°F End 70°F	Wet Bulb Temp. RH Percent

Form Number 003-1	Page 1	a 2
Continued on VEO Form Number		003-2

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Source Layout Sketch	Draw North Arrow <input type="checkbox"/> IN <input type="checkbox"/> MN	
Longitude N 30° 23' 27"	Latitude W 81° 31' 57"	Decidation
Observer's Name (Print) MARK K. LOECHLT		
Observer's Signature 		Date 2/6/99
Organization ST. JOHNS RIVER POWER PARK		
Completed By EASTERN TECHNICAL ASSOCIATES	Date 12/3/98	

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	Method 9	203A	203B	Other:
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Company Name	ST. JOHNS RIVER POWER PARK				
Facility Name	ST. JOHNS RIVER POWER PARK				
Street Address	11201 NEW BELLMAN ROAD				
City	JACKSONVILLE	State	FL	Zip	32226

Process	SHIPUNLOADING LIMESTONE	Unit #	Operating Mode
Control Equipment			Operating Mode

Describe Emission Point				
SHIPUNLOADER HOPPER				

Height of Emiss. Pt.	Start	End	Height of Emiss. Pt. Rel. to Observer
Distance to Emiss. Pt.	Start	End	Direction to Emiss. Pt. (Degrees)
Start	End	Start	End

Vertical Angle to Obs. Pt.	Start	End	Direction to Obs. Pt. (Degrees)	
Distance and Direction to Observation Point from Emission Point	Start	End	Start	End

Describe Emissions				
Start	End	Emisson Color	Water Droplet Plume	
Start	End		Attached	<input type="checkbox"/>
			Detached	<input type="checkbox"/>
			None	<input type="checkbox"/>

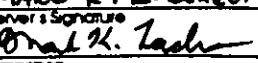
Describe Plume background				
Start	End	Background Color	Sky Conditions	
Start	End		Start	End
Wind Speed			Wind Direction	
Start	End		Start	End
Ambient Temp.			Wet Bulb Temp.	RH Percent
Start	End			

Source Layout Sketch		Draw North Arrow
		<input type="checkbox"/> TN <input type="checkbox"/> MN
		
X Observation Point		
Observer's Position		
140°		
Sun Location Line		
Longitude	Latitude	Decidation

Additional Information		

Form Number	003-2	Page	2	of	2
Continued on VEO Form Number 003-1					

	Observation Date	Time Zone	Start Time	End Time	
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29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	MARK K. LOECHLT
Observer's Signature	
Date	2/6/98
Organization	ST. JOHNS RIVER POWER PARK
Committed By	EASTERN TECHNICAL ASSOCIATES
Date	12/3/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Selected (Circle One)	Method 9	203A	203B	Other: _____
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Company Name ST. JOHNS RIVER POWER PARK		
Facility Name ST. JOHNS RIVER POWER PARK		
Street Address 11201 NEW BERLIN ROAD		
City JACKSONVILLE	State FL	Zip 32226

Process SHIP UNLOADING LIMESTONE	Unit #	Operating Mode 59% CAPACITY
Control Equipment WET SUPPRESSION		Operating Mode 0% CAPACITY

Describe Emission Point TRANSFER POINT HOPPER TO CONVEYOR CT-1

Height of Emiss. Pt. Start 65' End 65'	Height of Emiss. Pt. Rel. to Observer Start 10' End 10'
Distance to Emiss. Pt. Start 35' End 35'	Direction to Emiss. Pt. (Degrees) Start 315° End 315°

Vertical Angle to Obs. Pt. Start 15° End 15°	Direction to Obs. Pt. (Degrees) Start 315° End 315°
Distance and Direction to Observation Point from Emission Point Start 0-0' End 0-0'	

Describe Emissions Start NONE End NAME
Emission Color Start NONE End NONE
Water Droplet Plume Attached <input type="checkbox"/> Detached <input checked="" type="checkbox"/> None <input checked="" type="checkbox"/>

Describe Plume background Start LIMESTONE HOPPER End LIMESTONE HOPPER
Background Color Start DARK BLUE End DARK BLUE
Sky Conditions Start SCATTERED End SCATTERED
Wind Speed Start 0-3 End 0-3
Wind Direction Start NNE End NNE
Ambient Temp. Start 70°F End 70°F
Wet Bulb Temp. RH Percent

Source Layout Sketch

Draw North Arrow
 TN MN

Longitude N 30° 23.27" Latitude W 81° 31.57" Declination

Additional Information

Form Number 006-1	Page 1 of 2
Continued on VEO Form Number 006-2	

Observation Date 7/6/99		Time Zone EST	Start Time 10:00	End Time 11:00
Sec	Min	0 15 30 45	Comments	
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26	0	0 0 0 0		
27	0	0 0 0 0		
28	0	0 0 0 0		
29	0	0 0 0 0		
30	0	0 0 0 0		

Observer's Name (Print) MARY K. LOECHLT	Observer's Signature Mark K. Lachut	Date 7/6/99
Organization ST. JOHNS RIVER POWER PARK		Date
Certified By EASTERN TECHNICAL ASSOCIATES		Date 12/13/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	203A	203B	Other: _____
Method 9			

Company Name ST. JOHNS RIVER POWER PARK		
Facility Name ST. JOHNS RIVER POWER PARK		
Street Address 11201 NEW BERLIN ROAD		
City JACKSONVILLE	State FL.	Zip 32226

Process SHIP UNLOADING LIMESTONE	Unit #	Operating Mode
Central Equipment		Operating Mode

Describe Emission Point TRANSFER POINT HOPPER TO CONVEYOR CT-1			
Height of Emiss. Pt. Start	End	Height of Emiss. Pt. Rel. to Observer Start	End
Distance to Emiss. Pt. Start	End	Direction to Emiss. Pt. (Degrees) Start End	

Vertical Angle to Obs. Pt. Start	End	Direction to Obs. Pt. (Degrees) Start	End
Distance and Direction to Observation Point from Emission Point Start End			

Describe Emissions			
Start	End	Water Droplet Plume Attached <input type="checkbox"/> Detached <input type="checkbox"/> None <input type="checkbox"/>	
Start	End		

Describe Plume background			
Start	End	Sky Conditions Start	End
Background Color Start	End	Wind Speed Start	End
Wind Direction Start	End	Wet Bulb Temp. Start	End
Ambient Temp. Start	End	RH Percent Start	End

Source Layout Sketch

Draw North Arrow
 TN MN

X Observation Point

Observer's Position

-140

Sun Location Line

Longitude Latitude Decidation

Additional Information

Form Number 006-2 Page 2 of 2
 Continued on VEO Form Number 006-1

Observation Date		Time Zone		Start Time	End Time	
Sec	Min	0	15	30	45	Comments
1	0	0	0	0	0	
2	0	0	0	0	0	
3	0	0	0	0	0	
4	0	0	0	0	0	
5	0	0	0	0	0	
6	0	0	0	0	0	
7	0	0	0	0	0	
8	0	0	0	0	0	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	0	0	0	
12	0	0	0	0	0	
13	0	0	0	0	0	
14	0	0	0	0	0	
15	0	0	0	0	0	
16	0	0	0	0	0	
17	0	0	0	0	0	
18	0	0	0	0	0	
19	0	0	0	0	0	
20	0	0	0	0	0	
21	0	0	0	0	0	
22	0	0	0	0	0	
23	0	0	0	0	0	
24	0	0	0	0	0	
25	0	0	0	0	0	
26	0	0	0	0	0	
27	0	0	0	0	0	
28	0	0	0	0	0	
29	0	0	0	0	0	
30	0	0	0	0	0	

Observer's Name (Print)
MARK V. LOECHLT
 Observer's Signature
Mark V. Loehlt
 Organization
ST. JOHNS RIVER POWER PARK
 Certified By
EASTERN TECHNICAL ASSOCIATES
 Date 12/3/99

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	203A	203B	Other _____
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Company Name ST. JOHNS RIVER POWER PARK		
Facility Name ST. JOHNS RIVER POWER PARK		
Street Address 11201 NEW BERLIN ROAD		
City JACKSONVILLE	State FL	Zip 32226

Process SHIPUNLOADING LIMESTONE	Unit #	Operating Mode 59% CAPACITY
Control Equipment SIDE SHELVES		Operating Mode 0% CAPACITY

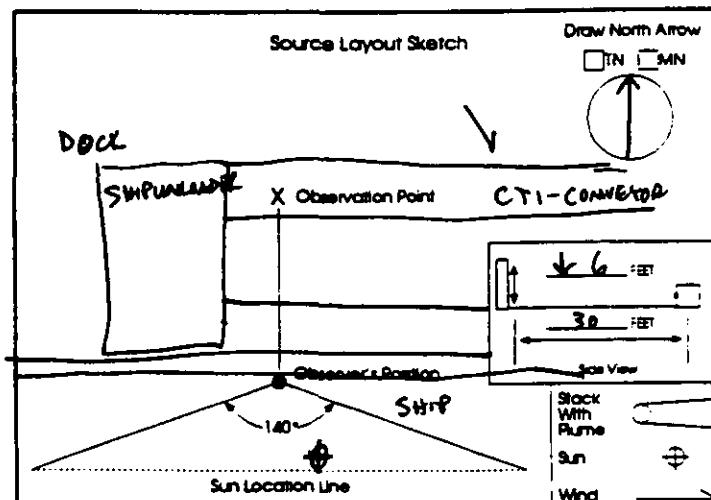
Describe Emission Point CONVEYOR CT-1
--

Height of Emiss. Pt. Start 50' End 50'	Height of Emiss. Pt. Rel. to Observer Start -6' End -6'
Distance to Emiss. Pt. Start 30' End 30'	Direction to Emiss. Pt. (Degrees) Start 0° End 0°

Vertical Angle to Obs. Pt. Start -15° End -15°	Direction to Obs. Pt. (Degrees) Start 0° End 0°
Distance and Direction to Observation Point from Emission Point Start 0-0	End 0-0

Describe Emissions Start NAME	End NAME
emission Color Start NAME	Water Droplet Plume End NAME Attached <input type="checkbox"/> Detached <input checked="" type="checkbox"/> None X

Describe Plume background Start DOCK / WATER	End DOCK / WATER
Background Color Start WHITE / BLUE End WHITE / BLUE	Sky Conditions Start SCATTERED End SCATTERED
Wind Speed Start 0-3 End 0-3	Wind Direction Start NNEW End NNEW
Ambient Temp. Start 70°F End 70°F	Wet Bulb Temp. RH Percent



Additional Information		
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Form Number 007-1 Page 1 of 2
Continued on VEO Form Number 007-2

Observation Date 2/16/99		Time Zone EST		Start Time 10:00	End time 11:00	
Sec	Min	0	15	30	45	Comments
1	0	0	0	0	0	
2	0	0	0	0	0	
3	0	0	0	0	0	
4	0	0	0	0	0	
5	0	0	0	0	0	
6	0	0	0	0	0	
7	0	0	0	0	0	
8	0	0	0	0	0	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	0	0	0	
12	0	0	0	0	0	
13	0	0	0	0	0	
14	0	0	0	0	0	
15	0	0	0	0	0	
16	0	0	0	0	0	
17	0	0	0	0	0	
18	0	0	0	0	0	
19	0	0	0	0	0	
20	0	0	0	0	0	
21	0	0	0	0	0	
22	0	0	0	0	0	
23	0	0	0	0	0	
24	0	0	0	0	0	
25	0	0	0	0	0	
26	0	0	0	0	0	
27	0	0	0	0	0	
28	0	0	0	0	0	
29	0	0	0	0	0	
30	0	0	0	0	0	

Observer's Name (Print) MARK K. LOECHERT	
Observer's Signature Mark K. Loehert	Date 2/16/99
Organization ST. JOHNS RIVER POWER PARK	
Certified by EASTERN TECHNICAL ASSOCIATES	Date 12/3/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

(Method Used Circle One)		
<input checked="" type="radio"/>	Method 1	203A
<input type="radio"/>	Method 2	203B
Other: _____		

Company Name ST. JOHNS RIVER POWER PARK		
Facility Name ST. JOHNS RIVER POWER PARK		
Street Address 11201 NEW BERLIN ROAD		
City JACKSONVILLE	State FL	Zip 32226

Process SHIP UNLOADING LIMESTONE	Unit #	Operating Mode
Control Equipment		Operating Mode

Describe Emission Point CONVEYOR CT-1		
--	--	--

Height of Emiss. Pt. Start End	Height of Emiss. Pt. Rel. to Observer Start End
Distance to Emiss. Pt. Start End	Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start End	Direction to Obs. Pt. (Degrees) Start End
Distance and Direction to Observation Point from Emission Point Start	End

Describe Emissions		
Start	End	
Emission Color Start	End	Water Droplet Plume <input type="checkbox"/> Attached <input type="checkbox"/> Detached <input type="checkbox"/> None
Start	End	

Describe Plume background		
Start	End	
Background Color Start	End	Sky Conditions Start End
Wind Speed Start	End	Wind Direction Start End
Ambient Temp. Start	End	Wet Bulb Temp. Start End
		Per Percent

Source Layout Sketch		Draw North Arrow <input type="checkbox"/> TN <input type="checkbox"/> MN
Longitude Latitude Decimation		

Additional Information		
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Form Number 007-2 Page 2 of 2
Continued on VEO Form Number 007-1

Observation Date		Time Zone		Start Time	End Time	
Sec	Min	0	15	30	45	Comments
1		0	0	0	0	
2		0	0	0	0	
3		0	0	0	0	
4		0	0	0	0	
5		0	0	0	0	
6		0	0	0	0	
7		0	0	0	0	
8		0	0	0	0	
9		0	0	0	0	
10		0	0	0	0	
11		0	0	0	0	
12		0	0	0	0	
13		0	0	0	0	
14		0	0	0	0	
15		0	0	0	0	
16		0	0	0	0	
17		0	0	0	0	
18		0	0	0	0	
19		0	0	0	0	
20		0	0	0	0	
21		0	0	0	0	
22		0	0	0	0	
23		0	0	0	0	
24		0	0	0	0	
25		0	0	0	0	
26		0	0	0	0	
27		0	0	0	0	
28		0	0	0	0	
29		0	0	0	0	
30		0	0	0	0	

Observer's Name (Print) MARK K. LOECHLT		
Observer's Signature 		Date 2/6/99
Organization ST. JOHNS RIVER POWER PARK		
Certified by EASTERN TECHNICAL ASSOCIATES		Date 12/3/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

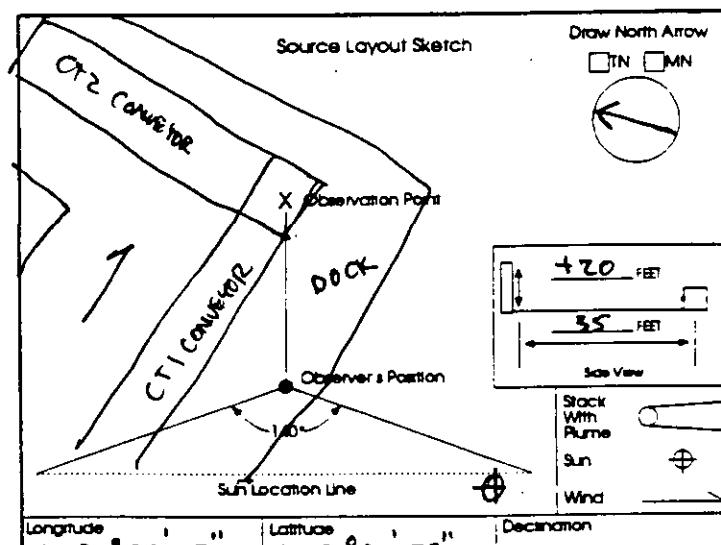
Method Used (Circle One)	Method 9	203A	203B	Other: _____
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Company Name ST. JOHNS RIVER POWER PARK		
Facility Name ST. JOHNS RIVER POWER PARK		
Street Address 11201 NEW BERLIN ROAD		
City JACKSONVILLE	State FL	Zip 32226

Process SHIP UNLOADING LIMESTONE	Unit # 49%	Operating Mode CAPACITY
Control Equipment WET SUPPRESSION		Operating Mode 0% CAPACITY

Describe Emission Point TRANSFER POINT CONVEYOR CT-1 TO CONVEYOR CT-2	
Height of Emiss. Pt. Start 25' End 25'	Height of Emiss. Pt. Rel. to Observer Start 20' End 20'
Distance to Emiss. Pt. Start 35' End 35'	Direction to Emiss. Pt. (Degrees) Start 45° End 45°
Vertical Angle to Obs. Pt Start 15° End 15°	Direction to Obs. Pt. (Degrees) Start 045° End 045°
Distance and Direction to Observation Point from Emission Point Start 0'-0" End 0'-0"	

Describe Emissions Start NAME End NAME	
Emission Color Start NAME End NAME	Attached <input type="checkbox"/> Detached <input type="checkbox"/> None <input checked="" type="checkbox"/>
Describe Plume background Start OPEN SKY End OPEN SKY	
Background Color Start BLUE End BLUE	Sky Conditions Start SCATTERED End SCATTERED
Wind Speed Start 3-5 End 3-5	Wind Direction Start W End NNE
Ambient Temp. Start 72°F End 72°F	Wet Bulb Temp. RH Percent



Form Number 008-1	Page 1 of 2
Continued on VEO Form Number 008-2	

Observation Date 2/6/99		Time Zone EST	Start Time 1150	End Time 1250
Sec Min	0 15 30 45	Comments		
1	0 0 0 0			
2	0 0 0 0			
3	0 0 0 0			
4	0 0 0 0			
5	0 0 0 0			
6	0 0 0 0			
7	0 0 0 0			
8	0 0 0 0			
9	0 0 0 0			
10	0 0 0 0			
11	0 0 0 0			
12	0 0 0 0			
13	0 0 0 0			
14	0 0 0 0			
15	0 0 0 0			
16	0 0 0 0			
17	0 0 0 0			
18	0 0 0 0			
19	0 0 0 0			
20	0 0 0 0			
21	0 0 0 0			
22	0 0 0 0			
23	0 0 0 0			
24	0 0 0 0			
25	0 0 0 0			
26	0 0 0 0			
27	0 0 0 0			
28	0 0 0 0			
29	0 0 0 0			
30	0 0 0 0			

Observer's Name (Print) MARK K. LOCHER	Observer's Signature Mark K. Locher	Date 2/6/99
Organization ST. JOHNS RIVER POWER PARK	Certified By EASTERN TECHNICAL ASSOCIATES	Date 12/3/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	203A	203B	Other: _____
Method 9			

Company Name ST. JOHNS RIVER POWER PARK		
Facility Name ST. JOHNS RIVER POWER PARK		
Street Address 11201 NEW BERLIN ROAD		
City JACKSONVILLE	State FL	Zip 32226

Process SHIPLOADING LIMESTONE	Unit #	Operating Mode
Central Equipment		Operating Mode

Describe Emission Point: TRANSFER POINT CONVEYOR CT-1 TO CONVEYOR CT-2		
---	--	--

Height of Emiss. Pt. Start _____ End _____	Height of Emiss. Pt. Rel. to Observer Start _____ End _____
Distance to Emiss. Pt. Start _____ End _____	Direction to Emiss. Pt. (Degrees) Start _____ End _____

Vertical Angle to Obs. Pt. Start _____ End _____	Direction to Obs. Pt. (Degrees) Start _____ End _____
Distance and Direction to Observation Point from Emission Point Start _____ End _____	

Describe Emissions		
Start _____ End _____	Water Droplet Plume Attached <input type="checkbox"/> Detached <input type="checkbox"/> None <input type="checkbox"/>	

Describe Plume background		
Start _____ End _____	Sky Conditions Start _____ End _____	
Wind Speed Start _____ End _____	Wind Direction Start _____ End _____	
Ambient Temp. Start _____ End _____	Wet Bulb Temp. RH Percent	

Source Layout Sketch		Draw North Arrow <input type="checkbox"/> TN <input type="checkbox"/> MN
Longitude	Latitude	Decimation

Additional Information		
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Form Number 008-2 Page 2 of 2
Continued on VEO Form Number 008-1

Observation Date 2/6/99		Time Zone EST		Start Time 1150	End Time 1250	
Sec	Min	0	15	30	45	Comments
1	0	0	0	0	0	
2	0	0	0	0	0	
3	0	0	0	0	0	
4	0	0	0	0	0	
5	0	0	0	0	0	
6	0	0	0	0	0	
7	0	0	0	0	0	
8	0	0	0	0	0	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	0	0	0	
12	0	0	0	0	0	
13	0	0	0	0	0	
14	0	0	0	0	0	
15	0	0	0	0	0	
16	0	0	0	0	0	
17	0	0	0	0	0	
18	0	0	0	0	0	
19	0	0	0	0	0	
20	0	0	0	0	0	
21	0	0	0	0	0	
22	0	0	0	0	0	
23	0	0	0	0	0	
24	0	0	0	0	0	
25	0	0	0	0	0	
26	0	0	0	0	0	
27	0	0	0	0	0	
28	0	0	0	0	0	
29	0	0	0	0	0	
30	0	0	0	0	0	

Observer's Name (Print) MARK V. LOECHLT	Observer's Signature Mark V. Loehlt	Date 2/6/99
Organization ST. JOHNS RIVER POWER PARK	Certified By EASTERN TECHNICAL ASSOCIATES	Date 12/13/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	203A	203B	Other _____
Method 9			

Company Name ST. JOHNS RIVER POWER PARK		
Facility Name ST. JOHNS RIVER POWER PARK		
Street Address 11201 NEW BERLIN ROAD		
City JACKSONVILLE	State FL	Zip 32226

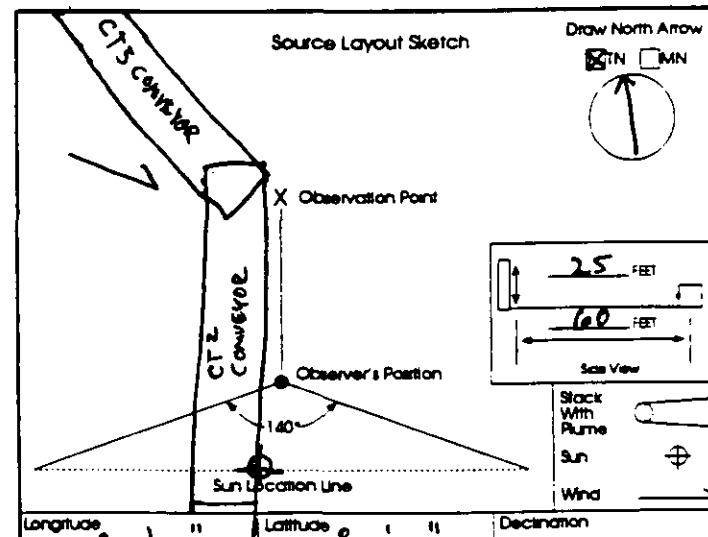
Process SHIP UNLOADING LIMESTONE	Unit # 4490 CAPACITY	Operating Mode
Control Equipment WET SUPPRESSION	Operating Mode 070 CAPACITY	

Describe Emission Point TRANSFER POINT CONVEYOR CT-2 TO CONVEYOR CT-3			
Height of Emiss. Pt. Start 30' End 30'	Height of Emiss. Pt. Rel. to Observer, Start 25' End 25'		
Distance to Emiss. Pt. Start 160' End 160'	Direction to Emiss. Pt. (Degrees) Start 345° End 345°		

Vertical Angle to Obs. Pt. Start 15° End 15°	Direction to Obs. Pt. (Degrees) Start 360° End 360°
Distance and Direction to Observation Point from Emission Point Start S°-90° End S°-90°	

Describe Emissions			
Start NAME	End NAME	Attached <input type="checkbox"/>	Detached <input checked="" type="checkbox"/> None X
Emission Color Water Droplet Plume			

Describe Plume Background			
Start OPEN SKY	End OPEN SKY	Sky Conditions	
Background Color Start BLUE End BLUE	Start CLEAR End CLEAR	Wind Speed	
Wind Speed Start 3.5 End 3.5	Start NW End NW	Wind Direction Wet Bulb Temp.	RH Percent
Ambient Temp. Start 73°F End 74°F			



Form Number 010-1 Page 1 of 2
 Continued on VEO Form Number 010-2

Observation Date 2/6/99	Time Zone EST	Start Time 1310	End Time 1440		
Sec Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)
MACK K. LOECHELT
 Observer's Signature
Mack K. Loehlert Date **2/6/99**
 Organization
ST. JOHNS RIVER POWER PARK
 Certified By
EASTERN TECHNICAL ASSOCIATES Date **12/13/98**

EPA

VISIBLE EMISSION OBSERVATION FORM 1

(Method of Circle One)		
Method 9	203A	203B
Other: _____		

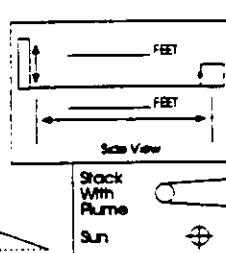
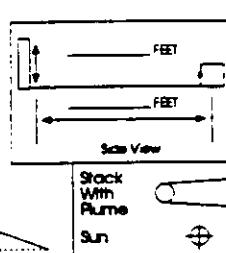
Company Name ST. JOHNS RIVER POWER PARK		
Facility Name ST. JOHNS RIVER POWER PARK		
Street Address 11201 NEW BERLIN ROAD		
City JACKSONVILLE	State FL	Zip 32226

Process SHIP UNLOADING LIMESTONE	Unit #	Operating Mode
Control Equipment		

Describe Emission Point TRANSFER POINT CONVEYOR CT-2 TO CONVEYOR CT-3					
Height of Emiss. Pt. Start End		Height of Emiss. Pt. Rel. to Observer Start End			
Distance to Emiss. Pt. Start End		Direction to Emiss. Pt. (Degrees) Start End			
Vertical Angle to Obs. Pt. Start End		Direction to Obs. Pt. (Degrees) Start End			
Distance and Direction to Observation Point from Emission Point Start		End			

Describe Emissions					
Start	End	Water Droplet Plume	Attached	Detached	<input type="checkbox"/> None
Start	End				

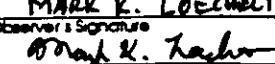
Describe Plume Background					
Start	End	Background Color	Start	End	Sky Conditions
Start	End	Wind Speed	Start	End	Wind Direction
Start	End	Ambient Temp.	Start	End	Wet Bulb Temp.
Start	End				RH Percent

Source Layout Sketch		
<p style="text-align: center;">Draw North Arrow</p> <input type="checkbox"/> TN <input type="checkbox"/> MN 		
<p style="text-align: center;">X Observation Point</p>		
		
<p style="text-align: center;">Observer's Position</p>		
		
<p style="text-align: center;">Sun Location Line</p>		
Longitude	Latitude	Decimation

Additional Information		

Form Number	010-2	Page	2 of 2
Continued on VEO Form Number		010-1	

Observation Date		Time Zone		Start Time	End Time	
Sec	Min	0	15	30	45	Comments
1	0	0	0	0	0	
2	0	0	0	0	0	
3	0	0	0	0	0	
4	0	0	0	0	0	
5	0	0	0	0	0	
6	0	0	0	0	0	
7	0	0	0	0	0	
8	0	0	0	0	0	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	0	0	0	
12	0	0	0	0	0	
13	0	0	0	0	0	
14	0	0	0	0	0	
15	0	0	0	0	0	
16	0	0	0	0	0	
17	0	0	0	0	0	
18	0	0	0	0	0	
19	0	0	0	0	0	
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22	0	0	0	0	0	
23	0	0	0	0	0	
24	0	0	0	0	0	
25	0	0	0	0	0	
26	0	0	0	0	0	
27	0	0	0	0	0	
28	0	0	0	0	0	
29	0	0	0	0	0	
30	0	0	0	0	0	

Observer's Name (Print)	MARK K. LOECHERT
Observer's Signature	
Organization	ST. JOHNS RIVER POWER PARK
Committed By	EASTERN TECHNICAL ASSOCIATES
Date	2/6/99
Date	12/3/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)
 Method 9 203A 203B Other: _____

Company Name
ST. JOHNS RIVER POWER PARK
 Facility Name
ST. JOHNS RIVER POWER PARK
 Street Address
11701 NEW BERLIN ROAD
 City State Zip
JACKSONVILLE FL 32226

Process Unit # Operating Mode
SHIPLOADING LIMESTONE **4690 CAPACITY**
 Control Equipment Operating Mode
WATER SUPPRESSION **090 CAPACITY**

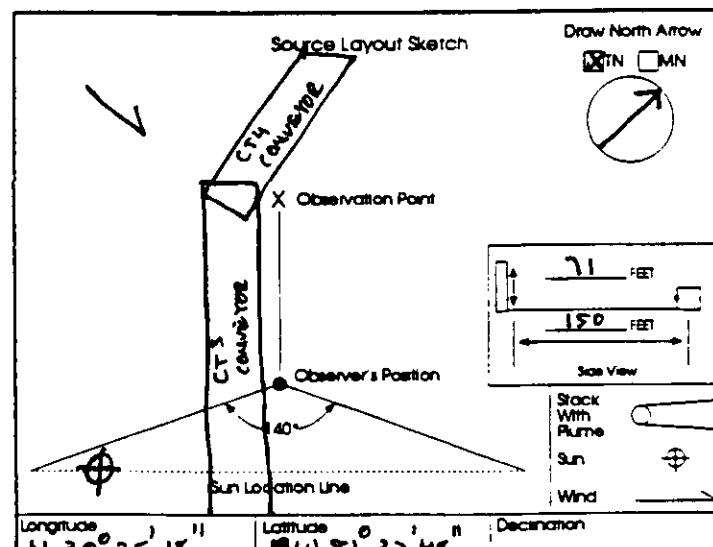
Describe Emission Point
TRANSFER POINT CONVERTOR CT-3 TO CONVEYOR CT-4

Height of Emiss. Pt.
 Start **75'** End **75'** Height of Emiss. Pt. Rel. to Observer
 Start **71** End **71**
 Distance to Emiss. Pt.
 Start **150'** End **150'** Direction to Emiss. Pt. (Degrees)
 Start **288°** End **288°**

Vertical Angle to Obs. Pt.
 Start **20°** End **20°** Direction to Obs. Pt. (Degrees)
 Start **300°** End **300°**
 Distance and Direction to Observation Point from Emission Point
 Start **20°** - **54°** End **20°** - **54°**

Describe Emissions
 Start **NONE** End **ALM4E**
 Emission Color Water Droplet Plume
 Start **NONE** End **NONE** Attached Detached None

Describe Plume background
 Start **OPEN SKY** End **OPEN SKY**
 Background Color Sky Conditions
 Start **BLUE** End **BLUE** Start **CLEAR** End **CLEAR**
 Wind Speed Wind Direction
 Start **3-5** End **3-5** Start **W** End **W**
 Ambient Temp. Wet Bulb Temp. RH Percent
 Start **75°F** End **75°F**



Additional Information

Form Number **012-1** Page **1** of **2**
 Continued on VEO Form Number **012-2**

Observation Date		Time Zone		Start Time	End Time	
21699		EST		1430	1530	
Sec	Min	0	15	30	45	Comments
1	0	0	0	0	0	
2	0	0	0	0	0	
3	0	0	0	0	0	
4	0	0	0	0	0	
5	0	0	0	0	0	
6	0	0	0	0	0	
7	0	0	0	0	0	
8	0	0	0	0	0	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	0	0	0	
12	0	0	0	0	0	
13	0	0	0	0	0	
14	0	0	0	0	0	
15	0	0	0	0	0	
16	0	0	0	0	0	
17	0	0	0	0	0	
18	0	0	0	0	0	
19	0	0	0	0	0	
20	0	0	0	0	0	
21	0	0	0	0	0	
22	0	0	0	0	0	
23	0	0	0	0	0	
24	0	0	0	0	0	
25	0	0	0	0	0	
26	0	0	0	0	0	
27	0	0	0	0	0	
28	0	0	0	0	0	
29	0	0	0	0	0	
30	0	0	0	0	0	

Observer's Name (Print)
MARK K. LORCAELT
 Observer's Signature
Mark K. Lorcael
 Organization
ST. JOHNS RIVER POWER PARK
 Certified By
EASTERN TECHNICAL ASSOCIATES Date **12/3/98**

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)		
Method 9	203A	203B
Other: _____		

Company Name ST. JOHNS RIVER POWER PARK		
Facility Name ST. JOHNS RIVER POWER PARK		
Street Address 11201 NEW BERLIN ROAD		
City JACKSONVILLE	State FL	Zip 32226

Process STOPLUNGLOADING LIMESTONE	Unit #	Operating Mode
Control Equipment	Operating Mode	

Describable Emission Point TRANSFEE POINT CONVEYOR CT-3 TO CONVEYOR CT-4		
---	--	--

Height of Emiss. Pt. Start _____ End _____	Height of Emiss. Pt. Rel. to Observer Start _____ End _____
Distance to Emiss. Pt. Start _____ End _____	Direction to Emiss. Pt. (Degrees) Start _____ End _____

Vertical Angle to Obs. Pt. Start _____ End _____	Direction to Obs. Pt. (Degrees) Start _____ End _____
Distance and Direction to Observation Point from Emission Point Start _____ End _____	

Describable Emissions		
Start _____ End _____	Water Droplet Plume Attached <input type="checkbox"/> Detached <input type="checkbox"/> None <input type="checkbox"/>	
Start _____ End _____		

Describable Plume background		
Start _____ End _____	Sky Conditions Start _____ End _____	
Background Color Start _____ End _____		
Wind Speed Start _____ End _____	Wind Direction Start _____ End _____	
Ambient Temp. Start _____ End _____	Wet Bulb Temp. Start _____ End _____	RH Percent

Source Layout Sketch

X Observation Point

Observer's Position

140°

Sun Location Line

Longitude _____ Latitude _____ Declination _____

Form Number 1012-2	Page 2 of 2
Continued on VEO Form Number 1012-1	

Observation Date 2/6/99		Time Zone EST	Start Time 1430	End Time 1530
Sec Min	0 15 30 45	Comments		
1	0 0 0 0			
2	0 0 0 0			
3	0 0 0 0			
4	0 0 0 0			
5	0 0 0 0			
6	0 0 0 0			
7	0 0 0 0			
8	0 0 0 0			
9	0 0 0 0			
10	0 0 0 0			
11	0 0 0 0			
12	0 0 0 0			
13	0 0 0 0			
14	0 0 0 0			
15	0 0 0 0			
16	0 0 0 0			
17	0 0 0 0			
18	0 0 0 0			
19	0 0 0 0			
20	0 0 0 0			
21	0 0 0 0			
22	0 0 0 0			
23	0 0 0 0			
24	0 0 0 0			
25	0 0 0 0			
26	0 0 0 0			
27	0 0 0 0			
28	0 0 0 0			
29	0 0 0 0			
30	0 0 0 0			

Observer's Name (Print) MARK K. LOECHLT	Date 2/6/99
Observer's Signature Mark K. Loehlt	Date
Organization ST. JOHNS RIVER POWER PARK	Date
Certified By EASTERN TECHNICAL ASSOCIATES	Date 12/3/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	203A	203B	Other _____
<input checked="" type="checkbox"/> Method 9			

Company Name	St. Johns River Power Park.		
Facility Name	St. Johns River Power Park.		
Street Address	11201 New Berlin Rd.		
City	Jacksonville	State	FL Zip 32226.

Process	Ship Unloading Lime Stone	Unit #	Operating Mode
Control Equipment	Conditioned material		58% capacity
			0% capacity

Describe Emission Point	Conveyor CT-4		
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Height of Emiss. Pt.	Start 25' End 25'	Height of Emiss. Pt. Rel. to Observer
		Start 30' End 30' N
Distance to Emiss. Pt.		Direction to Emiss. Pt. (Degrees)
Start 150M End 150M		Start 14°NE End 14°NE

Vertical Angle to Obs. Pt.	Start 4° End 4°	Direction to Obs. Pt. (Degrees)
		Start 14°NE End 14°NE
Distance and Direction to Observation Point from Emission Point		
Start 5 SW	End 5 SW	10

Describe Emissions	Start none	End none
Emission Color	Water Droplet Plume	
Start none	End none	Attached <input type="checkbox"/> Detached <input type="checkbox"/> None <input checked="" type="checkbox"/>

Describe Plume background	Start N/A	End
Background Color	Start Blue	End Blue
Wind Speed	Start 0-5	End 0-5
Ambient Temp	Start 78°F	End 80°F
	Wet Bulb Temp	RH Percent
	65°F	46%

Source Layout Sketch

Draw North Arrow

TN MN

AC
80' 25 FEET
492 FEET
Sea View

Stack With Plume Sun Wind

Longitude N 38° 26' 29" Latitude W 21° 32' 57" Declination

Additional Information

Form Number	013-1	Page	1	2 *
Continued on VSO Form Number		013-2		

	Observation Date	Time Zone	Start Time	End Time
1	2/6/99		0935	1035
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Observer's Name (Print)	Alvaro Castro	
Observer's Signature	Alvaro Castro	Date 2/6/99
Organization	St. Johns River Power Park	
Certified by	Eastern Technical Services	Date 12/2/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	Method 9	20A	20B	Other _____
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Company Name	<i>St. Johns River Power Park</i>			
Facility Name	<i>St. Johns River Power Park</i>			
Street Address	<i>11201 New Berlin Rd.</i>			
City	<i>Jacksonville</i>	State	<i>FL</i>	Zip <i>32226</i>

Process	<i>Ship Unloading Limestone</i>	Unit #	Operating Mode
Control Equipment	Operating Mode		

Decade Emission Point	<i>Conveyor CT-4</i>			
-----------------------	----------------------	--	--	--

Height of Emiss. Pt.	Height of Emiss. Pt. Rel. to Observer			
Start	End	Start	End	
Distance to Emiss. Pt.	Direction to Emiss. Pt. (Degrees)			
Start	End	Start	End	

Vertical Angle to Obs. Pt.	Direction to Obs. Pt. (Degrees)			
Start	End	Start	End	
Distance and Direction to Observation Point from Emission Point				
Start	End			

Decade Emissions				
Start	End	Start	End	
Emission Color	Water Droplet Plume			
Start	End	Attached <input type="checkbox"/>	Detached <input type="checkbox"/>	None <input type="checkbox"/>

Decade Plume background				
Start	End	Start	End	
Background Color	Sky Conditions			
Start	End	Start	End	
Wind Speed	Wind Direction			
Start	End	Start	End	
Ambient Temp.	Wet Bulb Temp.			
Start	End	RH Percent		

Source Layout Sketch

Draw North Arrow

TN MN

X Observation Point

Observer's Position

Sun Location Line

Scale View

140°

Longitude Latitude Declination

Additional Information		

Form Number	013-2	Page	2
Continued on VEO Form Number		013-1	

Observation Date	Time Zone				Start Time	End Time
2/6/99					0935	1035
Sec	0	15	30	45	Comments	
Min						
1	0	0	0	0		
2	0	0	0	0		
3	0	0	0	0		
4	0	0	0	0		
5	0	0	0	0		
6	0	0	0	0		
7	0	0	0	0		
8	0	0	0	0		
9	0	0	0	0		
10	0	0	0	0		
11	0	0	0	0		
12	0	0	0	0		
13	0	0	0	0		
14	0	0	0	0		
15	0	0	0	0		
16	0	0	0	0		
17	0	0	0	0		
18	0	0	0	0		
19	0	0	0	0		
20	0	0	0	0		
21	0	0	0	0		
22	0	0	0	0		
23	0	0	0	0		
24	0	0	0	0		
25	0	0	0	0		
26	0	0	0	0		
27	0	0	0	0		
28	0	0	0	0		
29	0	0	0	0		
30	0	0	0	0		

Observer's Name (Print)	<i>Alvaro Castro</i>	
Observer's Signature	<i>Alvaro Castro</i>	
Date	2/6/99	
Organization	<i>St. Johns River Power Park</i>	
Collected by	<i>Eastern Technical Board</i>	
Date	12/2/98	

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	Method 9	203A	203B	Other _____
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Company Name	St. Johns River Power Park			
Facility Name	St. Johns River Power Park			
Street Address	11201 New Berlin Rd.			
City	Jacksonville	State	FL	Zip 32266

Process	Ship Unloading Limestone	Unit #	Operating Mode	58% capacity
Central Equipment	Conditioned Material		Operating Mode	0% capacity

Describe Emission Point	Transfer Point CT-4 Trailing Conveyor S1			
-------------------------	--	--	--	--

Height of Emiss. Pt.	Start 20' End 20'	Height of Emiss. Pt. Rel. to Observer	Start 25' End 25'	Re
Distance to Emiss. Pt.	Start 155m End 155m	Direction to Emiss. Pt. (Degrees)	Start 12°NE End 12°NE	

Vertical Angle to Obs. Pt.	Start 4° End 4°	Direction to Obs. Pt. (Degrees)	Start 12°NE End 12°NE
Distance and Direction to Observation Point from Emission Point	Start 4° SW End 4° SW		10

Describe Emissions	Start none End none
Emission Color	Water Droplet Plume
Start none End none	Attached <input type="checkbox"/> Detached <input type="checkbox"/> None <input checked="" type="checkbox"/>

Describe Plume background	Start N/A End
Background Color	Sky Condition
Start Blue End Blue.	Start Blue/Clear and End Blue/Clear
Wind Speed	Wind Direction
Start 0-5 End 0-5	Start NW End NW K
Ambient Temp	Wet Bulb Temp.
Start 78°F End 80°F	100 Percent 65°F 46%

Source Layout Sketch

Longitude $N 30^{\circ} 26' 28''$ Latitude $W 81^{\circ} 32' 57''$ Declination

Additions Information	_____
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Form Number	016-1	Page	1	2
Continued on VEO Form Number	016-2			

Observation Date	Time Zone	Start Time	End Time		
2/6/99		09:35	10:35		
Sec	0	15	30	45	Comments
Min	0	0	0	0	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	Alvaro Castro
Observer's Signature	Alvaro Castro
Date	2/6/99
Organization	St. Johns River Power Park
Compiled by	Eastern Technical Associates
Date	12/2/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	Method 9	20SA	20SB	Other _____
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Company Name	St. Johns River Power Park.			
Facility Name	St. Johns River Power Park.			
Street Address	11201 New Berlin Rd.			
City	Jacksonville	State	FL	Zip 32226

Process	Ship Unloading limestone	Unit #	Operating Mode
Control Equipment			Operating Mode

Describe Emission Point Transfer Point CT-4 Trailing Conveyor S1				
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Height of Emiss. Pt.	Start	End	Height of Emiss. Pt. Rel. to Observer	
	Start	End	Start	End
Distance to Emiss. Pt.	Start	End	Direction to Emiss. Pt. (Degrees)	
	Start	End	Start	End

Vertical Angle to Obs. Pt.	Start	End	Direction to Obs. Pt. (Degrees)	
	Start	End	Start	End
Distance and Direction to Observation Point from Emission Point	Start	End		

Describe Emissions				
Start	End	End	Water Droplet Plume	
Emission Color	Start	End	Attached <input type="checkbox"/>	Detached <input type="checkbox"/>
	Start	End	None <input type="checkbox"/>	

Describe Plume background				
Start	End	End	Sky Conditions	
Background Color	Start	End	Start	End
Start	End	Wind Direction	Start	End
Wind Speed	Start	End	Start	End
Start	End	Ambient Temp.	Start	End
Start	End	Wet Bulb Temp.	RH Percent	

Source Layout Sketch		Draw North Arrow
		<input type="checkbox"/> TN <input type="checkbox"/> MN
X Observation Point		
Observer's Position		
Sun Location Line		
Longitude	Latitude	Declination
Additional Information		

Form Number	016-2	Page	2	2
Continued on VEO Form Number		016-1		

Observation Date	Time Zone	Start Time	End Time		
2/6/99		0935	1035		
Sec	0	15	30	45	Comments
Min					
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	Alvaro Castro
Observer's Signature	
Date	2/6/99
Organization	St. Johns River Power Park.
Certified by	Eastern Technical Associates
Date	12/2/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	Method 9	20A	20B	Other _____
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Company Name	St. Johns River Power Park.			
Facility Name	St. Johns River Power Park.			
Address	17201 New Berlin Rd.			
City	Jacksonville	St	FL	32226

Process	Ship Unloading Limestone	Unit #	Operating Mode
Control Equipment	Conditioned Material		49% Capacity
			0% Capacity

Describe Emission Point	TRAILING Conveyor S1			
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Height of Emiss. Pt.	Height of Emiss. Pt. Rel. to Observer			
Start 25'	End 25'	Start 30'	End 30' <i>AC</i>	
Distance to Emiss. Pt.	Direction to Emiss. Pt. (Degrees)			
Start 160 m	End 160 m	Start 8° NE	End 8° NE	

Vertical Angle to Obs. Pt.	Direction to Obs. Pt. (Degrees)			
Start 40°	End 40°	Start 8° NE	End 8° NE	
Distance and Direction to Observation Point from Emission Point				
Start 1,5' SW	End 5' SW <i>AC</i>			

Describe Emissions				
Start none	End none	Water Droplet Plume		
Start none	End none	Attached	Detached	None <input checked="" type="checkbox"/>

Describe Plume Background				
Start	End	Sky Conditions		
Background Color		Start Clear	End Clear	
Start Blue	End Blue			
Wind Speed	Wind Direction			
Start 0-5	End 0-5	Start NW	End NW	
Ambient Temp.	Wet Bulb Temp. RH Percent			
Start 81°F	End 84°F	Start 70°F	End 60% <i>RH</i>	

Source Layout Sketch		Draw North Arrow
		<input type="checkbox"/> TN <input type="checkbox"/> MN
Longitude <i>N 30° 26' 28"</i> Latitude <i>W 81° 32' 57"</i> Declination		

Additional Information		

Form Number	017-1	Page	1 <i>of</i> 2
Continued on VEO Form Number		017-2	

Sec	0	15	30	45	Comments
Min					
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	<i>Alvaro Castro</i>
Observer's Signature	<i>Alvaro Castro</i>
Date	2/6/99
Organization	<i>St. Johns River Power Park</i>
Comments	<i>Eastern Technical Services</i>
Date	12/2/99

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	Method 9	200A	200B	Other _____
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Company Name	<i>St. Johns River Power Park.</i>			
Facility Name	<i>St. Johns River Power Park.</i>			
Street Address	11201 New Berlin Rd.			
City	Jacksonville	State	FL	Zip 32226

Process	<i>Shipping, Unloading, limestone</i>	Unit #	Operating Mode
Central Equipment	Operating Mode		

Decide Emission Point	<i>TRAILING Conveyor S1</i>			
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Height of Emiss. Pt.	Height of Emiss. Pt. Rel. to Observer			
Start	End	Start	End	
Distance to Emiss. Pt.	Direction to Emiss. Pt. (Degrees)			
Start	End	Start	End	

Vertical Angle to Obs. Pt.	Direction to Obs. Pt. (Degrees)			
Start	End	Start	End	
Distance and Direction to Observation Point from Emission Point				
Start	End			

Decide Emissions				
Start	End	Start	End	
Emission Color	Water Droplet Plume			
Start	End	Attached	Detached	None

Decide Plume background				
Start	End	Start	End	
Background Color	Sky Conditions			
Start	End	Start	End	
Wind Speed	Wind Direction			
Start	End	Start	End	
Ambient Temp.	Wet Bulb Temp.			
Start	End	RH Percent		

Source Layout Sketch		Draw North Arrow
		<input type="checkbox"/> TN <input type="checkbox"/> MN
X Observation Point		
Observer's Position		
140°		
Sun Location Line		
Longitude	Latitude	Declination
Additional Information		

Form Number	017-2	Page	2 of 2
Continued on VEO Form Number		017-1	

Observation Date	Time Zone	Start Time	End Time		
2/6/99		1155	1255		
Sec	0	15	30	45	Comments
Min					
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	<i>Alvaro Castro</i>	
Observer's Signature	<i>Alvaro Castro</i>	
Date	2/6/99	
Organization	St. Johns River Power Park	
Certified by	Eastern Technical Services	
Date	12/2/98	

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)
 Method V 200A 200B Other _____

Company Name
St. Johns River Power Park.
 Facility Name
St. Johns River Power Park.
 Street Address
11201 New Berlin Rd.
 City **Jacksonville** State **FL** Zip **32226**

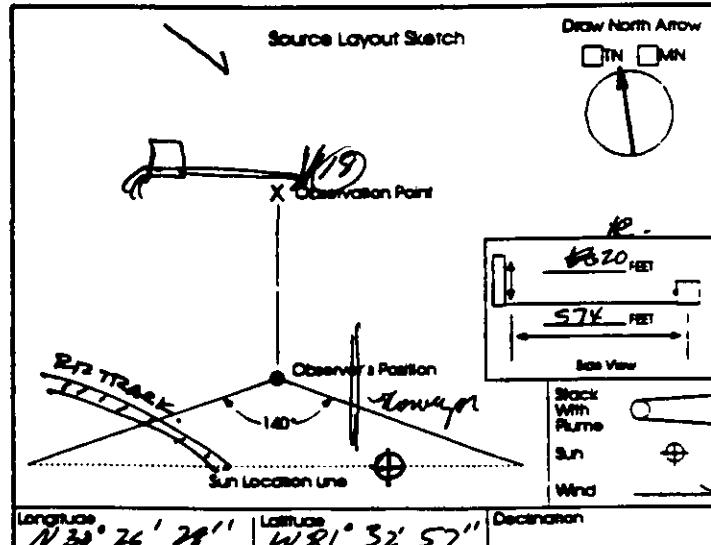
Process
Ship Unloading limestone Unit # **49% capacity**
 Conditioned
Conditioned Material Operating Mode **0% capacity**

Describe Emission Point
TRANSFER POINT - TRAILING CONVEYOR S1
TO 200m Conveyor S2
 Height of Emiss. Pt.
 Start **20'** End **20'** Height of Emiss. Pt. Rel. to Observer
 Start **25'** End **25'**
 Distance to Emiss. Pt.
 Start **175m** End **175m**. Direction to Emiss. Pt. (Degrees)
 Start **80°NE** End **8°NE**

Vertical Angle to Obs. Pt.
 Start **3°** End **30°** Direction to Obs. Pt. (Degrees)
 Start **8°NE** End **8°NE**
 Distance and Direction to Observation Point from Emission Point
 Start **10' SW** End **10' SW** NE

Describe Emissions
 Start **unseen** End **unseen**
 Emission Color
 Start **white** End **white** Water Droplet Plume
 Attached Detached None

Describe Plume background
 Start **Background Color** End **Sky Conditions**
 Start **Blue** End **Blue** Start **clear** End **clear**
 Wind Speed
 Start **0-5** End **0-5** Wind Direction
 Start **NW** End **NW** Wet Bulb Temp
 Start **31°F** End **88°F** RH Percent
 Start **10°F** End **70°F** **60%**



Additional Information

Form Number **018-1** Page **1** of **2**
 Continued on VEO Form Number **018-2**

Observation Date		Time Zone		Start Time	End Time
2/6/99				1155	1255
Sec	Mn	0	15	30	45
					Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print) **Alvaro Castro**
 Observer's Signature **Alvaro Castro** Date **2/6/99**
 Organization **St. Johns River Power Park**
 Copied by **Coyenne Technical Services** Date **12/2/98**

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)		
<input checked="" type="radio"/> Method 9	<input type="radio"/> 200A	<input type="radio"/> 200B
Other _____		

Company Name	<i>St. Johns River Power Park.</i>	
Facility Name	<i>St. Johns River Power Park.</i>	
Street Address	11201 New Berlin Rd.	
City	State	Zip
Jacksonville	FL	32226

Process	Unit #	Operating Mode
Ship Unloading Limestone		
Control Equipment		Operating Mode

Describe Emission Point	
<i>TRANSFER POINT: TRAVERSING CONVEYOR S1 TO BOOM CONVEYOR S2</i>	
Height of Emiss. Pt.	Height of Emiss. Pt. Rel. to Observer
Start	End
Distance to Emiss. Pt.	Direction to Emiss. Pt. (Degrees)
Start	End

Vertical Angle to Obs. Pt.	Direction to Obs. Pt. (Degrees)
Start	End
Start	End
Distance and Direction to Observation Point from Emission Point	
Start	End

Describe Emissions	
Start	End
Emission Color	Water Droplet Plume
Start	End
Attached	Detached
None <input checked="" type="checkbox"/>	

Describe Plume Background	
Start	End
Background Color	Sky Conditions
Start	End
Wind Speed	Wind Direction
Start	End
Ambient Temp.	Wet Bulb Temp.
Start	End
RH Percent	

Source Layout Sketch		Draw North Arrow
		<input type="checkbox"/> TN <input type="checkbox"/> MN
X Observation Point		
Observer's Position		
140°		
Sun Location Line		
Longitude	Latitude	Decimation

Additional Information		

Form Number	018-2	Page	2 of 2
Continued on VEO Form Number		018-1	

Observation Date	Time Zone	Start Time	End Time		
2/6/99		1155	1255		
Sec	0	15	30	45	Comments
Min					
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print)	<i>Alvaro Castro</i>
Observer's Signature	<i>Alvaro Castro</i>
Date	2/6/99
Organization	<i>St. Johns River Power Park.</i>
Compiled By	<i>Battelle Technical Associate</i>
Date	12/2/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	Method 9	203A	203B	Other _____
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Company Name	St. Johns River Power Park			
Facility Name	St. Johns River Power Park			
Street Address	11201 New Berlin Rd.			
City	Jacksonville	State	FL	Zip 32226

Process	Ship Unloading limestone	Unit #	Operating Mode
Control Equipment	Conditioned Material		49% Capacity
			8% capacity

Describe Emission Point	Boom Conveyor S2			
-------------------------	------------------	--	--	--

Height of Emiss. Pt.	Start 35' End 35'	Height of Emiss. Pt. Rel. to Observer
Distance to Emiss. Pt.	Start 40' End 40'	Direction to Emiss. Pt. (Degrees)
Start 170m End 170m	Start 5°NE End 5°NE	

Vertical Angle to Obs. Pt.	Start 4° End 4° NE	Direction to Obs. Pt. (Degrees)
Start 4° End 4° NE	Start 5°NE End 5°NE	
Distance and Direction to Observation Point from Emission Point	Start 10° SW	End 10° SW NE

Describe Emissions	Start none	End none
Emission Color	Water Droplet Plume	
Start none End none	Attached	Detached

None Attached Detached None

Describe Plume background	Start	End
Background Color	Sky Conditions	
Start Blue End Blue.	Start Clear	End Clear.
Wind Speed	Wind Direction	
Start 0-5 End 0-5	Start NW	End NW
Ambient Temp.	Wet Bulb Temp.	RH Percent
Start 81° End 81°	70°	60%

Source Layout Sketch

Draw North Arrow

TN MN

Longitude $113^{\circ} 26' 28''$ Latitude $32^{\circ} 57'$ Decidation

Additional Information				
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Form Number	019-1	Page	1	2
Continued on VEO Form Number				
019-2				

Observation Date	Time Zone				Start Time	End Time
2/6/99	30	60	90	120	11:55	12:55
Sec Min	0	15	30	45	RE	Comments AC
1	0	0	0	0		
2	0	0	0	0		
3	0	0	0	0		
4	0	0	0	0		
5	0	0	0	0		
6	0	0	0	0		
7	0	0	0	0		
8	0	0	0	0		
9	0	0	0	0		
10	0	0	0	0		
11	0	0	0	0		
12	0	0	0	0		
13	0	0	0	0		
14	0	0	0	0		
15	0	0	0	0		
16	0	0	0	0		
17	0	0	0	0		
18	0	0	0	0		
19	0	0	0	0		
20	0	0	0	0		
21	0	0	0	0		
22	0	0	0	0		
23	0	0	0	0		
24	0	0	0	0		
25	0	0	0	0		
26	0	0	0	0		
27	0	0	0	0		
28	0	0	0	0		
29	0	0	0	0		
30	0	0	0	0		

Observer's Name (Print)	Alvaro Castro			
Observer Signature	Alvaro Castro			
Date	2/6/99			
Organization	St. Johns River Power Park			
Category	Costain Technical Associates			
Date	12/2/98			

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)		
<input checked="" type="radio"/>	Method 9	200A
200B		Other _____

Company Name <i>J. John Price Power Park.</i>		
Facility Name <i>J. John Price Power Park.</i>		
Street Address <i>11201 New Berlin Rd.</i>		
City <i>Jacksonville</i>	State <i>FL</i>	Zip <i>32226</i>

Ship Unloading/limestone	Unit #	Operating Mode
Conveyed equipment		Operating Mode

Visible Emission Point <i>Boom Conveyor S2</i>

Height of Emiss. Pt. Start _____ End _____	Height of Emiss. Pt. Rel. to Observer Start _____ End _____
Distance to Emiss. Pt. Start _____ End _____	Direction to Emiss. Pt. (Degrees) Start _____ End _____

Vertical Angle to Obs. Pt. Start _____ End _____	Direction to Obs. Pt. (Degrees) Start _____ End _____
Distance and Direction to Observation Point from Emission Point Start _____ End _____	

Visible Emissions	
Start _____ End _____	Water Droplet Plume Attached <input type="checkbox"/> Detached <input type="checkbox"/> None <input type="checkbox"/>
Start _____ End _____	

Visible Plume Background	
Start _____ End _____	Sky Conditions Start _____ End _____
Background Color Start _____ End _____	
Wind Speed Start _____ End _____	Wind Direction Start _____ End _____
Ambient Temp. Start _____ End _____	Wet Bulb Temp. RH Percent Start _____ End _____

Source Layout Sketch		Draw North Arrow <input type="checkbox"/> TN <input type="checkbox"/> MN
X Observation Point		
Observer's Position		
Sun Location Line		
Longitude	Latitude	Decimation

Additional Information		

Form Number 019-2	Page 2 of 2
Continued on VSO Form Number 019-1	

Observation Date 2/6/99	Time Zone	Start Time 1155	End Time 1255
Sec Min	0 15 30 45	Comments	
1	0 0 0 0		
2	0 0 0 0		
3	0 0 0 0		
4	0 0 0 0		
5	0 0 0 0		
6	0 0 0 0		
7	0 0 0 0		
8	0 0 0 0		
9	0 0 0 0		
10	0 0 0 0		
11	0 0 0 0		
12	0 0 0 0		
13	0 0 0 0		
14	0 0 0 0		
15	0 0 0 0		
16	0 0 0 0		
17	0 0 0 0		
18	0 0 0 0		
19	0 0 0 0		
20	0 0 0 0		
21	0 0 0 0		
22	0 0 0 0		
23	0 0 0 0		
24	0 0 0 0		
25	0 0 0 0		
26	0 0 0 0		
27	0 0 0 0		
28	0 0 0 0		
29	0 0 0 0		
30	0 0 0 0		

Observer's Name (Print) <i>Alvaro Castro</i>	Observer's Signature <i>Alvaro Castro</i>	Date 2/6/99
Organization <i>J. John Price Power Park.</i>	Certified by <i>Eastern Technical Associates</i>	Date 12/2/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	Method 9	202A	203B	Other
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Company Name	<i>St. Johns River Power Park.</i>			
Facility Name	<i>St. Johns River Power Park.</i>			
Street Address	<i>11301 New Berlin Rd.</i>			
City	<i>Jacksonville</i>	State	<i>FL</i>	<i>32226</i>

Process	<i>Ship Unloading limestone</i>	Unit #	<i>99% capacity</i>
Control Equipment	<i>water</i>	Operating Mode	<i>Conditioned Material sprayed</i>
			<i>0% capacity</i>

Describe Emission Point	
<i>TRANSFER POINT: Boom Conveyor S2 to Storage Piles B+C, CT-4</i>	
Height of Emiss. Pt.	Height of Emiss. Pt. Rel. to Observer
Start 40'	Start 45' End 45'
Distance to Emiss. Pt.	Direction to Emiss. Pt. (Degrees)
Start 170m End 170m	Start 3° NE End 3° NE.

Vertical Angle to Obs. Pt.	Direction to Obs. Pt. (Degrees)
Start 5° End 5°	Start 3° NE End 3° NE
Distance and Direction to Observation Point from Emission Point	
Start 10'5"	End 10'5" NE

Describe Emissions	
Start none	End none
Emission Color	Water Droplet Plume
Start none	End none
Attached	<input type="checkbox"/>
Detached	<input type="checkbox"/>
None	<input checked="" type="checkbox"/>

Describe Plume background	
Start	End
Background Color	Sky Conditions
Start Red	End Pale
Wind Speed	Start Clear End Clear.
Start 0-5	End 0-5
Ambient Temp.	Start NW End NW
Start 81°F	End 84°F
Wet Bulb Temp.	70°F
RH Percent	60%

Source Layout Sketch

Longitude *N 30° 26' 28"* Latitude *W 81° 32' 57"* Declination

Additional Information

Form Number	020-1	Page	1	of 2
Continued on VRC Form Number		020-2		

	Sec	0	15	30	45	Comments
Min						
1	0	0	0	0	0	
2	0	0	0	0	0	
3	0	0	0	0	0	
4	0	0	0	0	0	
5	0	0	0	0	0	
6	0	0	0	0	0	
7	0	0	0	0	0	
8	0	0	0	0	0	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	0	0	0	
12	0	0	0	0	0	
13	0	0	0	0	0	
14	0	0	0	0	0	
15	0	0	0	0	0	
16	0	0	0	0	0	
17	0	0	0	0	0	
18	0	0	0	0	0	
19	0	0	0	0	0	
20	0	0	0	0	0	
21	0	0	0	0	0	
22	0	0	0	0	0	
23	0	0	0	0	0	
24	0	0	0	0	0	
25	0	0	0	0	0	
26	0	0	0	0	0	
27	0	0	0	0	0	
28	0	0	0	0	0	
29	0	0	0	0	0	
30	0	0	0	0	0	

Observer's Name (First) *Alvaro Castro*
 Observer Signature *Alvaro Castro* Date *2/6/99*
 Organization *St. Johns River Power Park.*
 Certified by *Eastern Technical Associates* Date *12/2/98*

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	
Method 9	203A 203B Other: _____

Company Name	<i>St. Johns River Power Park</i>		
Facility Name	<i>St. Johns River Power Park</i>		
Street Address	<i>11201 New Berlin Rd.</i>		
City	<i>Jacksonville</i>	State	<i>FL</i>
Zip	<i>32226</i>		

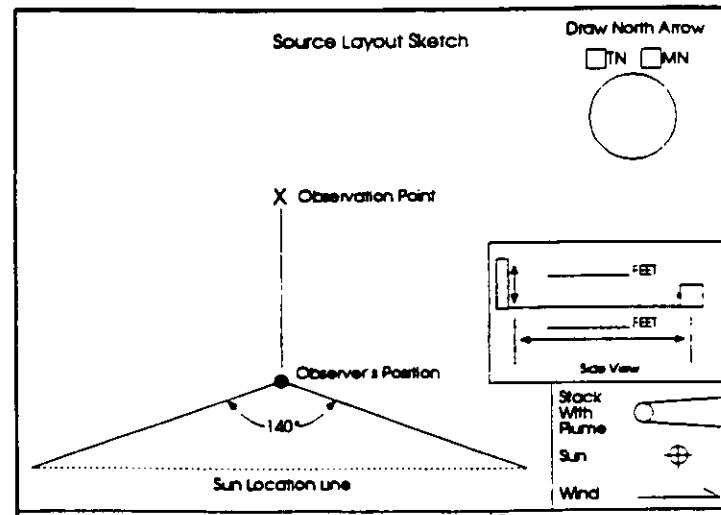
Process	<i>Skip Verticalizing Limestone</i>	Unit #	Operating Mode
Control Equipment	Operating Mode		

Describe Emission Point			
<i>TRANSFER POINT: Boom Conveyor S2 to Storage Piles B+C, CT 4</i>			
Height of Emiss. Pt.	Height of Emiss. Pt. Rel. to Observer		
Start	End	Start	End
Distance to Emiss. Pt.	Direction to Emiss. Pt. (Degrees)		
Start	End	Start	End

Vertical Angle to Obs. Pt.	Direction to Obs. Pt. (Degrees)		
Start	End	Start	End
Distance and Direction to Observation Point from Emission Point			
Start	End		

Describe Emissions			
Start	End	Start	End
Emission Color	Water Droplet Plume		
Start	End	Attached <input type="checkbox"/>	Detached <input type="checkbox"/>
None <input type="checkbox"/>			

Describe Plume background			
Start	End	Start	End
Background Color	Sky Conditions		
Start	End	Start	End
Wind Speed	Wind Direction		
Start	End	Start	End
Ambient Temp.	Wet Bulb Temp. RH Percent		
Start	End		



Additional Information

Form Number	020-2	Page	2 of 2
Continued on VEO Form Number		020-1	

Observation Date		Time Zone		Start Time	End Time	
2/6/99				1155	1255	
Sec	Min	0	15	30	45	Comments
1	0	0	0	0	0	
2	0	0	0	0	0	
3	0	0	0	0	0	
4	0	0	0	0	0	
5	0	0	0	0	0	
6	0	0	0	0	0	
7	0	0	0	0	0	
8	0	0	0	0	0	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	0	0	0	
12	0	0	0	0	0	
13	0	0	0	0	0	
14	0	0	0	0	0	
15	0	0	0	0	0	
16	0	0	0	0	0	
17	0	0	0	0	0	
18	0	0	0	0	0	
19	0	0	0	0	0	
20	0	0	0	0	0	
21	0	0	0	0	0	
22	0	0	0	0	0	
23	0	0	0	0	0	
24	0	0	0	0	0	
25	0	0	0	0	0	
26	0	0	0	0	0	
27	0	0	0	0	0	
28	0	0	0	0	0	
29	0	0	0	0	0	
30	0	0	0	0	0	

Observer's Name (Print)	<i>Alvaro Castro</i>
Observer's Signature	<i>Alvaro Castro</i>
Organization	<i>St. Johns River Power Park</i>
Certified by	<i>Eastern Technical Assistant</i>
Date	<i>2/6/99</i>
Date	<i>12/2/98</i>

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method used (Circle One)	203A	203B	Other: _____
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Company Name	<i>St. Johns River Power Park</i>		
Facility Name	<i>St. Johns River Power Park</i>		
Street Address	11201 New Berlin Rd.		
City	Jacksonville	State	FL Zip 32226

Process	LIMESTONE LOADOUT	Unit #	Operating Mode 12,100 TPD
Control Equipment	Water Sprays	Operating Mode 0% capacity	

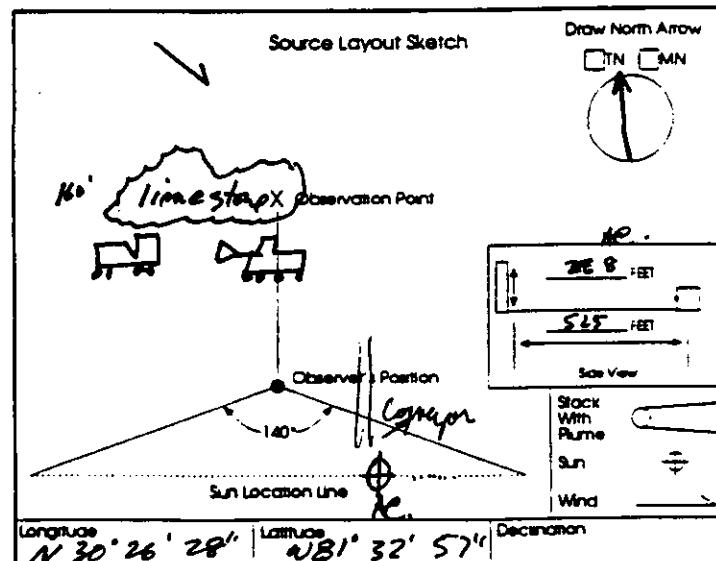
Describe Emission Point	<i>LOADER BUCKET GRAB FROM PILE</i>		
-------------------------	-------------------------------------	--	--

Height of Emiss. Pt. Start 8' End 8'	Height of Emiss. Pt. Rel. to Observer, Start 13' End 13'
Distance to Emiss. Pt. Start 160m End 160m	Direction to Emiss. Pt. (Degrees) Start 356°NW End 356°NW

Vertical Angle to Obs. Pt. Start 4° End 4°	Direction to Obs. Pt. (Degrees) Start 356°NW End 356°NW
Distance and Direction to Observation Point from Emission Point Start 20' W.	End 20' W. <i>NE</i>

Describe Emissions Start <i>wire</i> End <i>wire</i>	
Emission Color Start <i>wire</i> End <i>wire</i>	Water Droplet Plume Attached <input type="checkbox"/> Detached <input type="checkbox"/> None <input checked="" type="checkbox"/>

Describe Plume background Start <i>blue</i> End <i>blue</i>	
Background Color Start <i>blue</i> End <i>blue</i>	Sky Conditions Start Clear End Clear
Wind Speed Start 0.5 End 0.5	Wind Direction Start SE End SE
Ambient Temp. Start 81°F End 81°F	Wet Bulb Temp. RH Percent 67°F 54%



Additional Information

Form Number	02351	Page	1 of 2
Continued on VEO Form Number		02352	

Observation Data		Time Zone	Start Time	End Time
2/6/99			1045	1145
Sec	0 15 30 45			Comments
Min				
1	0 0 0 0			
2	0 0 0 0			
3	0 0 0 0			
4	0 0 0 0			
5	0 0 0 0			
6	0 0 0 0			
7	0 0 0 0			
8	0 0 0 0			
9	0 0 0 0			
10	0 0 0 0			
11	0 0 0 0			
12	0 0 0 0			
13	0 0 0 0			
14	0 0 0 0			
15	0 0 0 0			
16	0 0 0 0			
17	0 0 0 0			
18	0 0 0 0			
19	0 0 0 0			
20	0 0 0 0			
21	0 0 0 0			
22	0 0 0 0			
23	0 0 0 0			
24	0 0 0 0			
25	0 0 0 0			
26	0 0 0 0			
27	0 0 0 0			
28	0 0 0 0			
29	0 0 0 0			
30	0 0 0 0		28 Tons/hr @ 81°F	French.

Observer's Name (Print)	<i>Alvarez Oster</i>
Observer Signature	<i>Alvarez Oster</i>
Date	2/6/99
Organization	<i>St. Johns River Power Park</i>
Company	<i>Borden Technical Associates</i>
Date	12/2/98

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)
 Method 2 203A 203B Other: _____

Company Name *St. Johns River Power Park*
 Facility Name *St. Johns River Power Park*.
 Street Address *11201 New Berlin Rd.*
 City *Jacksonville* State *FL* Zip *32226*

Process	Unit #	Operating Mode
Control Equipment		Operating Mode

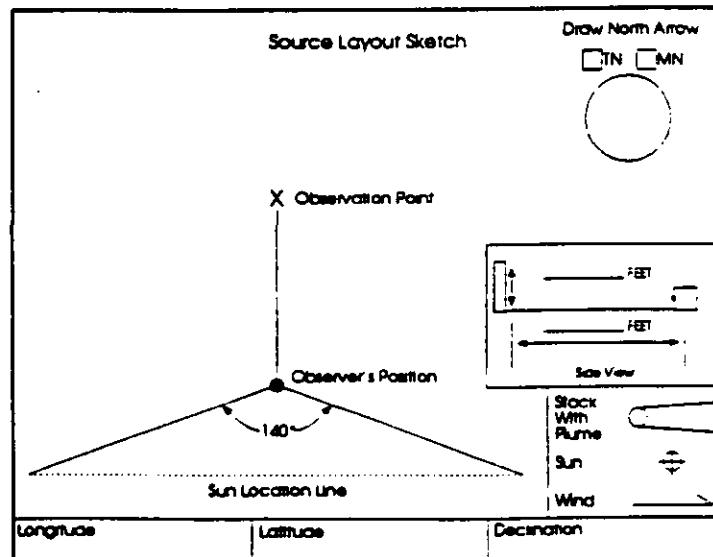
Describe emission point

Height of Emiss. Pt.	Start	End	Height of Emiss. Pt. Rel. to Observer
	Start	End	
Distance to Emiss. Pt.	Start	End	Direction to Emiss. Pt. (Degrees)
	Start	End	

Vertical Angle to Obs. Pt.	Start	End	Direction to Obs. Pt. (Degrees)
	Start	End	
Distance and Direction to Observation Point from Emission Point	Start	End	
	Start	End	

Describe emissions
 Start *Water Droplet Plume* End
 Emission Color Attached Detached None

Describe Plume background
 Start *Sky Conditions* End
 Background Color Sky Conditions
 Start *Wind Direction* End
 Wind Speed
 Start *Wet Bulb Temp.* End *RH Percent*
 Ambient Temp.



Additional Information

Form Number **02352** Page **2** of **2**
 Continued on VEO Form Number **02351**

Observation Date		Time Zone		Start Time	End Time
2/6/99				1045	1145
Sec	Min	0	15	30	45
1		0	0	0	0
2		0	0	0	0
3		0	0	0	0
4		0	0	0	0
5		0	0	0	0
6		0	0	0	0
7		0	0	0	0
8		0	0	0	0
9		0	0	0	0
10		0	0	0	0
11		0	0	0	0
12		0	0	0	0
13		0	0	0	0
14		0	0	0	0
15		0	0	0	0
16		0	0	0	0
17		0	0	0	0
18		0	0	0	0
19		0	0	0	0
20		0	0	0	0
21		0	0	0	0
22		0	0	0	0
23		0	0	0	0
24		0	0	0	0
25		0	0	0	0
26		0	0	0	0
27		0	0	0	0
28		0	0	0	0
29		0	0	0	0
30		0	0	0	0

Observer's Name (Print) *Alvaro Castro*
 Observer's Signature *Alvaro Castro* Date *2/6/99*
 Organization *St. Johns River Power Park*
 Certified by *Eastern Technical Associates* Date *12/2/98*

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)
 Method 9 203A 203B Other: _____

Company Name **A. T. Johns River Power Park.**
 Facility Name **A. T. Johns River Power Park.**
 Street Address **11201 New Berlin Rd.**
 City **Jacksonville** State **FL** Zip **32226**

Process **LIMESTONE LOADOUT** Unit # **12,100 TPD**
 Control Equipment **Water spray** Operating Mode **On capacity**

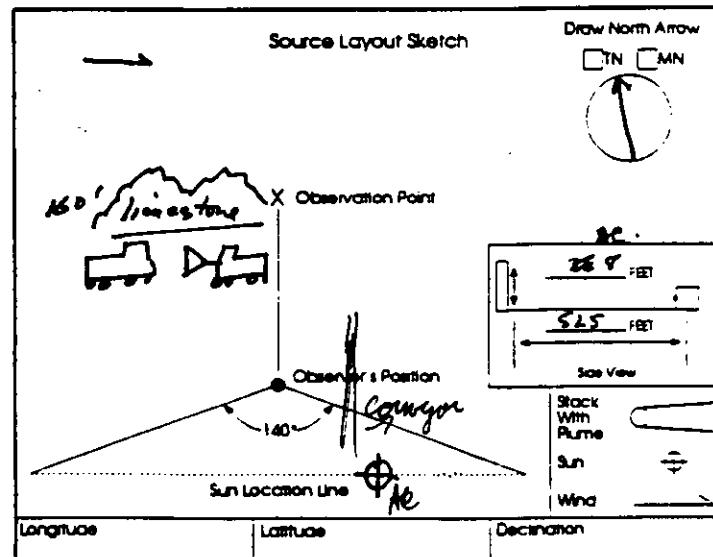
Decade Emission Point
LOAD OUT BUCKET DUMP TO TRUCK

Height of Emiss. Pt.
 Start **8'** End **8'** Height of Emiss. Pt. Rel. to Observer
 Start **13'** End **13'**
 Distance to Emiss. Pt.
 Start **160 M** End **160 M** Direction to Emiss. Pt. (Degrees)
 Start **356 NW** End **356 NW**

Vertical Angle to Obs. Pt.
 Start **4°** End **4°** Direction to Obs. Pt. (Degrees)
 Start **356 NW** End **356 NW**
 Distance and Direction to Observation Point from Emission Point
 Start **20' W** End **20' W** **NE**.

Decade Emissions
 Start **none** End **none**
 Emission Color **Water Droplet Plume**
 Start **none** End **none** Attached Detached None

Decade Plume background
 Start **Background Color** End **Sky Conditions**
 Start **Blue** End **Blue** Start **Clear** End **Clear**.
 Wind Speed
 Start **0-5** End **0-5** Wind Direction
 Start **SE** End **SE**
 Ambient Temp.
 Start **81°F** End **81°F** Wet Bulb Temp.
 Start **67°F** RH Percent **54%**



Additional Information

Form Number **02353** Page **1 of 2**
 Continued on VEO Form Number **02354**

Observation Date		Time Zone		Start Time	End Time
2/6/98				1045	1145
Sec	Min	0	15	30	45
					Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	29 Trucks/hr @ 18 tons/truck
30	0	0	0	0	

Observer's Name (Print) **Alvaro Castro**
 Observer's Signature **Alvaro Castro** Date **2/6/99**
 Organization **A. T. Johns River Power Park.**
 Compiled By **Eastern Technical Associates** Date **12/2/99**

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)	Method 9	203A	203B	Other: _____
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Company Name	<i>J. St. Johns River Power Park.</i>		
Facility Name	<i>J. St. Johns River Power Park.</i>		
Street Address	11201 New Berlin Rd.		
City	Jacksonville	State	FL Zip 32226

Process	Unit #	Operating Mode
Control Equipment		Operating Mode

Describe emission Point			

Height of Emiss. Pt.	Start	End	Height of Emiss. Pt. Rel. to Observer
Distance to Emiss. Pt.	Start	End	Direction to Emiss. Pt. (Degrees)
Start	End	Start	End

Vertical Angle to Obs. Pt.	Start	End	Direction to Obs. Pt. (Degrees)	
Distance and Direction to Observation Point from Emission Point	Start	End	Start	End

Describe emissions			
Start	End	Emision Color	Sky Conditions
Start	End	Attached <input type="checkbox"/>	Detached <input type="checkbox"/>
Start	End	None <input type="checkbox"/>	

Describe Plume background			
Start	End	Background Color	Sky Conditions
Start	End	Wind Speed	Wind Direction
Start	End	Ambient Temp.	Wet Bulb Temp.
Start	End		RH Percent

Source Layout Sketch			
Longitude	Latitude	Decidination	

Additional Information			

Form Number	023J4	Page	2 of 2
Continued on VEO Form Number		023J3	

Observation Day	Time Zone	Start Time	End Time
Sec	0 15 30 45		
Min			
2/6/99		1045	1145
1	0 0 0 0		
2	0 0 0 0		
3	0 0 0 0		
4	0 0 0 0		
5	0 0 0 0		
6	0 0 0 0		
7	0 0 0 0		
8	0 0 0 0		
9	0 0 0 0		
10	0 0 0 0		
11	0 0 0 0		
12	0 0 0 0		
13	0 0 0 0		
14	0 0 0 0		
15	0 0 0 0		
16	0 0 0 0		
17	0 0 0 0		
18	0 0 0 0		
19	0 0 0 0		
20	0 0 0 0		
21	0 0 0 0		
22	0 0 0 0		
23	0 0 0 0		
24	0 0 0 0		
25	0 0 0 0		
26	0 0 0 0		
27	0 0 0 0		
28	0 0 0 0		
29	0 0 0 0		
30	0 0 0 0	28 Trucks/hr @ 15 ft/min	

Observer's Name (Print)	<i>Alvaro Castro</i>
Observer Signature	<i>Alvaro Castro</i>
Organization	<i>J. St. Johns River Power Park.</i>
Copied by	<i>Eastern Technical Associate</i>
Date	<i>2/6/99</i>
Date	<i>12/2/99</i>