Florida Department of Environmental Protection

TO:

Michael G. Cooke

THRU:

Trina Vielhauer

J. K. Pennington

FROM:

Michael P. Halpin

DATE:

March 30, 2005

SUBJECT:

JEA, St. Johns River Power Park

Petcoke increase

DEP File No. PSD-FL-010, PA 81-13

Attached is the final air construction permit revision for St. Johns River Power Park. SJRPP Boilers Nos. 1 and 2 are fossil fuel-fired steam generators, each having a nominal nameplate rating of 679.6 megawatts (electric). The emissions units are allowed to fire pulverized coal, a blend of up to 20% petroleum coke and coal, new No. 2 distillate fuel oil (startup and low-load operation), and "on-specification" used oil. The maximum heat input to each emissions unit is 6,144 million Btu per hour. SJRPP Boilers Nos. 1 and 2 are dry bottom wall-fired boilers and will use an electrostatic precipitator (ESP) to control particulate matter, a wet limestone flue gas desulphurization (FGD) unit to control sulfur dioxide, low NO_X burners and low excess-air firing to control nitrogen oxides, and good combustion to control carbon monoxide.

The applicant has requested permission to fire a blend of up to 30% petroleum coke and coal, utilizing the WEPCO provision. Based upon the submitted information and other readily available documentation, reasonable assurance exists that SJRPP can accommodate this increase without exceeding any of the PSD thresholds (which would otherwise prompt a BACT Determination).

Notice was published in the Florida Times-Union on March 15, 2005. No comments were received, other than two very minor comments from the applicant (which are accommodated within this issuance).

I recommend your approval.

Attachments

/mph



Department of Environmental Protection

Jeb Bush Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Colleen M. Castille Secretary

April 4, 2005

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. James M. Chansler V. P. Operations and Maintenance JEA St. Johns River Power Park 21 West Church Street Jacksonville, Florida 32202

Dear Mr. Chansler:

Re: Request for Permit Amendment

Jacksonville Electric Authority, St. Johns River Power Park DEP File Numbers PSD-FL-010, 0310045-014-AC and PA 81-13

The Department hereby amends the specific conditions related to sulfur dioxide (SO₂) emissions and fuel use in the subject Final Determination (dated March 12, 1982) pursuant to 40 CFR 52.21 - Prevention of Significant Deterioration (PSD Permit). The PSD Permit is amended as follows:

Condition 2.A. (revised)

- i. When blends of petroleum coke and coal with a sulfur content of up to or equal to 2 percent <u>by weight</u> are fired in Units 1 or 2, the SO_2 emissions shall not exceed 0.55 <u>0.53</u> pound per million British thermal units (lb/MMBtu) and a minimum of 76 <u>79</u> percent reduction in the flue gas desulfurization system.
- ii. When co-firing petroleum coke with coals having a sulfur content between 2 and 3.63 percent by weight the emission limitation shall be based on the following formula:

 SO_2 emission limit (lb/MMBtu) = (0.2 x C/100) + 0.4

where: C = percent of coal co-fired on a heat input basis.

Please note that C is on a heat input basis and not weight input basis, so appropriate conversions should be used.

iii. When coals with a sulfur content greater than 3.63 percent by weight are co-fired with petroleum coke, the SO₂ emissions shall not exceed the following formula:

 SO_2 (lb/MMBtu) = (0.1653 x C x S - 0.4 x C + 40) x 1/100

where: C = percent of coal co-fired on a heat input basis

S = weight percent sulfur in the coal

"More Protection, Less Process"

Mr. James M. Chansler, VP JEA/SJRPP Petcoke increase

- iv. The maximum SO₂ emission rate when firing petroleum coke and coal shall not exceed 0.676 lb/MMBtu heat input.
- v. Compliance with the SO₂ emissions limit shall be based on a 30-day rolling average for those days when petroleum coke is fired. Any use of petroleum during a 24-hour period shall be considered 1 day of the 30-day rolling average. The 30-day rolling average shall be calculated according to the New Source Performance Standards (NSPS) codified in 40 CFR 60 Subpart Da, except as noted above.

Condition 2.B. (revised)

The petroleum coke-coal blends shall be limited to a maximum of 20 30 percent petroleum coke, by weight. The maximum weight of the petroleum coke burned shall not exceed 100,000 150,000 lb/hr based on a 30-day rolling average using production information for the amount of coal and petcoke metered from the coal storage bins to the boilers. The maximum sulfur content of the petroleum coke-coal blend shall not exceed 4 percent, by weight.

Condition 3. (revised)

The applicant shall maintain and submit to the Department on an annual basis for a period of five years from the date the unit is initially co-fired with petroleum coke above 20% by weight, information demonstrating in accordance with 40 CFR 52.21 (b) (21) (v) and 40 CFR 52.21 (b) (33) that the operational changes did not result in emissions increases of nitrogen oxides, carbon monoxide, sulfur dioxide, sulfuric acid mist, volatile organic compounds and particulate matter.

A copy of this amendment letter and the Technical Evaluation and Final Determination shall be attached to and shall become a part of Permit PSD-FL-010. All other conditions of the referenced permits remain unchanged. A copy of this letter shall be filed with the referenced permit and shall become part of the permit. This permit modification is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order (permit modification) has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

Michael G. Cooke, Director Division of Air Resource

Mel S. inola

Management

Mr., James M. Chansler, VP JEA/SJRPP Petcoke increase

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this INTENT TO ISSUE AIR CONSTRUCTION PERMIT (including the PUBLIC NOTICE and the DRAFT AIR CONSTRUCTION PERMIT) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 4/11/05 to the person(s) listed:

James M. Chansler, JEA *
Jay A. Worley, JEA
Gregg Worley, EPA
John Bunyak, NPS
Chris Kirts, NED
Richard Robinson, P.E. ERMD
Mr. Hamilton S. Oven, DEP-Siting

Clerk Stamp

acknowledged.

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby

Clark

(Date)

TECHNICAL EVALUATION

AND

FINAL DETERMINATION

St. Johns River Power Park

Increased Co-Firing of Petroleum Coke

JEA / DUVAL COUNTY

0310045-014-AC



Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation
North Permitting Section

March 30, 2005

1. GENERAL INFORMATION

1.1 APPLICANT NAME AND ADDRESS

St. Johns River Power Park

JEA

11201 New Berlin Road

Jacksonville, Florida 32226

Authorized Representative: James M. Chansler, V.P. Operations and Maintenance

1.2 REVIEWING AND PROCESS SCHEDULE

February 2, 2005

Received permit application

March 4, 2005

Issued Draft Intent

March 31, 2005

Issued Final permit revision

2. FACILITY INFORMATION

2.1 FACILITY LOCATION

The facility is located in Jacksonville, Duval County. The UTM coordinates are Zone 17; 446.90 km E; 3359.15 km N. This site is approximately 54 kilometers from the Okefenokee National Wildlife Refuge and 98 kilometers from the Wolf Island National Wildlife Refuge, both Class I PSD Areas.

2.2 STANDARD INDUSTRIAL CLASSIFICATION CODES (SIC)

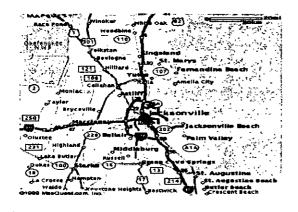
Industry Group No.	49	Electric, Gas and Sanitary Services
Industry No.	4911	Electric Services

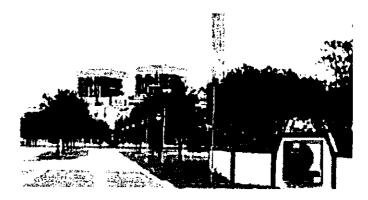
2.3 FACILITY CATEGORY

This facility consists of five boilers, Northside Generating Station (NGS) Boilers Nos. 1, 2 and 3 (No. 2 was placed on long-term reserve shutdown on March 1, 1984) and St. Johns River Power Park (SJRPP) Boilers Nos. 1 and 2; four combustion turbines, NGS Nos. 3, 4, 5 and 6 (Nos. 1 and 2 are inactive); and, an auxiliary boiler, NGS No. 1.

SJRPP Boilers Nos. 1 and 2 are fossil fuel-fired steam generators, each having a nominal nameplate rating of 679.6 megawatts (electric). The emissions units are allowed to fire pulverized coal, a blend of petroleum coke and coal, new No. 2 distillate fuel oil (startup and low-load operation), and "on-specification" used oil. The maximum heat input to each emissions unit is 6,144 million Btu per hour. SJRPP Boilers Nos. 1 and 2 are dry bottom wall-fired boilers and will use an electrostatic precipitator (ESP) to control particulate matter, a wet limestone flue gas desulphurization (FGD) unit to control sulfur dioxide, low NO_X burners and low excess-air firing to control nitrogen oxides, and good combustion to control carbon monoxide.

Based on the initial Title V permit application received June 14, 1996, this facility is a major source of hazardous air pollutants (HAPs). This facility is within an industry included in the list of the 28 Major Facility Categories per Table 62-212.400-1, F.A.C. Because emissions are greater than 100 TPY for at least one criteria pollutant, the facility is also a Major Facility with respect to Rule 62-212.400, Prevention of Significant Deterioration (PSD).





JEA

DEP File No. 0310045-014-AC

3. PROJECT DESCRIPTION

This project primarily addresses the following emissions unit(s):

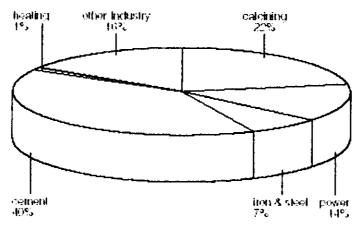
Emissions Unit No.	Emissions Unit Description
016	SJRPP Boiler Number 1 – dry bottom wall-fired boiler w/FGD, ESP and LNB
017	SJRPP Boiler Number 2 – dry bottom wall-fired boiler w/FGD, ESP and LNB

The applicant proposes to increase the combustion of petroleum coke (petcoke) from a maximum of 20% (on a weight basis) to 30%. The facility currently combusts coal as its primary fuel. The applicant indicates that this permit modification can be made in such a way that air emissions will not increase beyond historical levels, thus a PSD Review will not be triggered. The applicant further proposes that data can be provided in accordance with 40 CFR 52.21(b)(21)(v) and 40 CFR 52.21(b)(33) showing that the operational change associated with the use of increased petroleum coke did not result in significant emission increases for PSD pollutants (i.e., the WEPCO provision); emission analyses follow.

3.1 PETCOKE DISCUSSION

Much of this review was obtained from The Clean Coal Centre of the United Kingdom, in an article entitled "The use of petroleum coke in a coal-fired plant". Petroleum coke is a by-product from oil refineries and is composed mainly of carbon though it also contains high levels of sulfur and some heavy metals such as vanadium and nickel. There has been considerable interest in petcoke for several years, where it is available, as it is generally significantly cheaper than coal. The price does vary depending on the volumes produced and worldwide demand. The world production of petcoke grew by 50% from 1987 to 1998. It reached nearly 50 Million Tons (Mt) in 1999 and is expected to reach 100 Mt by 2010. The USA is the world's largest producer, producing three-quarters of world supplies. There are three types of petroleum coke, which can be produced depending on the process of production. The three processes are delayed, fluid and flexicoking with delayed coking producing over 90%. All three types of petcoke have higher calorific values than coal and contain less volatile matter and ash. The main uses of petcoke are as an energy source for power generation, in cement production and iron and steel production (which account for about two thirds of production) and the remainder is used mainly as a carbon source.

FIGURE 3 - 1999 WORLD PETROLEUM COKE MARKET PROFILE



Production = 48Mt

The following additional information was compiled for the Year 2001. The source of this data is FERC Form 423, although the Energy Information Administration (EIA) summarized it in a report entitled "Cost and Quality of Fuels for Electric Utility Plants 2001", dated March 2004. This data was accumulated for electric generating plants with nameplate capacity of 50 megawatts or more. Tables 25 and 28 from that report are shown below:

Table 25. The Top 20 Electric Utilities, Ranked by Receipts of Coal. 2001

	Receipts	Average De	livered Cost	Total	
Electric Uti lity	(thousand :bort tous)	(cent: per millen Btu)	(dollar: per short ton)	Delivered Cort (million dollar:)	
Tennessee Valley Authority	36.556	121.92	27.99	1.623.15	
Georgia Power Co	33.639	165.38	39 C6	: 313.94	
INU Electric Co	27,297	131.74	18 C:	491.74	
Alabama Portrei Co	24.211	141.53	30 67	728,60	
PacifiC orp	22,216	87,36	17.25	383.23	
Denoit Editon Co	20.135	122.28	25 05	505.59	
Ameren UZ	18.797	95.1C	17.28	324,87	
Dake Power Co	17,395	157.31	38 53	670.23	
Poblic Service Co of Indiana	16.542	110.20	24.35	402.51	
Lahme H. &?	16.423	157.06	14.47	401.93	
. Basin Electric Petres Coop	15.275	59.00	\$ 85	143.95	
. Otio Perres Ce	15.598	143.01	34.63	530.79	
Kanta: Fower and Light Co.	13.942	115.59	20 09	2\$0.03	
MidAmerican Energy	13.607	74.96	12.90	175.50	
Nerthern States Power Co	11.245	94.52	16 °C	121.36	
Atkanias Perret and Light Co	12.631	79.54	13.74	174.20	
Indiana Michigan Power	11,904	117.41	22.71	270,30	
Southwestern Electric Power	11.833	150.44	24 11	256.51	
. Witcoman Electric Power Co	11.868	102.91	19 29	228.9	
Appalachian Fower Co	11.858	129.56	31 69	368.64	

Note. Data are for electric generating plants with a total steam-electric and combined-cytle nameplate expansity of 50 or more megawatti. Science: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table 28. Receipts of Petroleum Coke by Electric Utility, 2001

	P1		Average Quality		Average De	livered Cott
Elecuic Utility	Receipts (thousand short tons)	Btu (per pound)	Sulfur (percent by weight)	Ash (percent by weight)	(cent: per million Brut	(dollar: per skort ton)
Ameren UZ	197	14,303	3,72	0.40	65.55	19 12
Central Elec Power Coop-Missouri ¹	•	14,225	3.20	.56	52,52	15 04
lacktouville Electric Auria	568	14,255	6.28	20	62.63	17.35
akeland City of	18	13,955	2.19	14.	127.02	35 45
Innitowoc Public Unlines.	36	14,234	5.5	55	54.73	15.58
lichtgan South Central Power	•	14 002	4,65	.43	150.01	42 61
orthera State: Power Co	201	13.613	5,64		39.12	10 65
orthan Indiana Pub Serv Co	.49	13.92	4,34	Ξċ	69.12	19 31
einnt HL&P	132	13,609	1.66	4	156.57	42.61
sit River Proy Ag L & P Dirt	1-	i4.500	3.67	50	100.43	29 14
eminole Electric Coop	152	[4,394	5.58	.41	110.74	3: 85
ampa Electric Pewer Co	303	13.945	4.90	16	\$2.5	23 66
incomin Pewer & Light	7	13.920	5.70	.56	96.15	26 30
Vicconiun Electric Power Co	145	14.201	5.24	.20	\$7. 7 9	51 63
Total	2.019	14.0*9	\$43	.40	78.35	22.07

Inchedes a small amount of coal

Of interest, no Florida utilities show up in the top 20 listing of coal users, even though Florida is one of the most populous states. It is observed that the cost of petroleum coke in year 2000 was approximately ½ that of coal. According to Table 28, Florida had 4 users of petcoke out of 14 listed users. The tables also show that receipts of petcoke totaled 2019 thousand short tons, or about 0.5% of the sum of coal receipts of the top 20 coal users. Only 4 utilities are listed on both tables: Northern States Power, Ameren UE, Wisconsin Electric Power Co. and Reliant. HL&P (Northern States Power is now known as XCEL Energy, headquartered in Minnesota). Jacksonville Electric Authority (JEA) is indicated as the largest utility user of petcoke during year 2001 for electrical generation.

⁼ Number less than 0.5.

Note: • Totals may not equal sum of components because of independent rounding • Data are for electric generating plants with a total steam-electric and combined-cycle nameplate capacity of 50 or more megawatts.

Source: Federal Energy Regulatory Commission: FERC Form 423. "Monthly Report of Cost and Quality of Finis for Electric Plants"

4. PROJECT EMISSIONS

4.1 HISTORICAL EMISSIONS

The following table summarizes the historical emissions (EU-016 and 017) based upon Department records (ARMS):

Pollutant	2001 Actual Emissions (TPY)	2002 Actual Emissions (TPY)	2001–2002 Average (TPY)	PSD Significant Emission Rates (TPY)	Maximum average Emission Rate without a PSD review (TPY)
NO _X	26379.1	26738.5	26558.8	40	26598.7
CO	970.178	962.093	966.14	100	1066.0
VOC	118.873	118.179	118.53	40	158.5
SO ₂	22535.41	20902.199	21718.8	40	21758.7
SAM	1311.0	1322.9	1316.9	7	1323.8
PM	317.258	326.2401	321.75	25	346.7
PM ₁₀	72.964	75.596	74.28	15	89.2
Pb	1.21	0.81	1.01	0.6	1.59

Note: Years 2001 and 2002 were proposed by the applicant as a "representative" period for comparison to future emissions.

5. RULE APPLICABILITY

This facility is located in an area designated, in accordance with Rule 62-204.340, F.A.C., as attainment for all pollutants. Rule 62-4.030, F.A.C., prohibits modification of any existing emissions unit without first receiving a permit. It further specifies that a permitted installation may only be modified in a manner that is consistent with the terms of such a permit. Rule 62-210.200, F.A.C., defines "modification" to mean generally a physical change or change in the method of operation that results in an increase in actual emissions of regulated air pollutants. Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C., also reiterate the requirement for construction permits. Additionally, Rule 62-210.300 requires an Air Construction permit for all new sources of air pollution unless specifically exempt.

FDEP deems that a change to the quantity or quality of fuel burned is a change in the method of operation. Given that the source is major with regard to PSD, an analysis must be performed to verify that the increased burning of petcoke will not result in a significant net emissions increase and that, consequently, use of additional petcoke is not a major modification subject to PSD review. The emission units affected by this permit shall comply with all applicable provisions of the Florida Administrative Code (including applicable portions of the Code of Federal Regulations incorporated therein).

6. PSD POLLUTANT ANALYSIS

6.1 COAL VERSUS PETCOKE

The following table was excerpted from a paper presented at the 2003 International Power-Gen Conference in Las Vegas, Nevada. The paper is entitled "Reducing NO_X and LOI at the St. Johns River Power Park":

	Pet. Coke	Colombian Coal
Prox. Analysis		
Fixed Carbon	83 92	47.60
VM	9.50	33 40
Ash	0.52	7.40
Moisture	7.06	11,60
Total	100.00	100,00
Ult. Analysis		
Carbon	82.22	66.54
Hydrogen	3.35	4.50
Oxygen	0.00	7.99
Nitrogen	1.71	1.32
Sulfur	5.14	0.65
Ash	0.52	7.40
Moisture	7.06	11.60
Total	100.00	100.00
HHV. Btu/lb as- rec'd	14,200	11,800

This table was excerpted from a cement plant application in the United Kingdom (Castle Cement dated May 17, 1999):

Chemical Names	Units	Coal	Petroleum coke	Increase or Decrease
Heat Content	CV-MJ/kg	25.5	31.41	Increase
Carbon	% Carbon	73.4	85	Increase
Chlorine	Cl %	0.03	NA	Decrease
Соррет	Cu (ppm)	12	3	Decrease
Lead	Pb	16	5	Decrease
Zinc	Zn	NA	17	Increase
Cadmium	Cd	10	0.04	Decrease
Chromium	Cr	8	5	Decrease
Thallium	Th	10	0.05	Decrease
Arsenic	As	7	1	Decrease
Mercury	Hg	10	NA	Decrease
Antimony	Sb	3	1	Decrease
Cobalt	Co	2	3	Increase
Manganese	Mn	71	NA	Decrease
Nickel	N	6	252	Increase
Tin	Sn	10	1	Decrease
Vanadium	V	4	150	Increase
Sulfur	S%	1.4	5.0	Increase

The purpose of the above tables is to illustrate that the PSD pollutant of most concern is sulfur. Due to the decreases in the lead and ash content in petcoke, increased firing should lead to reductions in the emissions of PM, PM₁₀ and Pb. The Department notes that the emissions of nickel and vanadium are not subject to PSD, but may subject the facility to a future MACT requirement.

6.2 CARBON MONOXIDE (CO) AND VOLATIVE ORGANIC COMPOUNDS (VOC)

The applicant contends that there will be no increase in CO or VOC emissions from the increased co-firing of petcoke. The annual CO emissions for these emission units averaged 966 TPY, while annual VOC emissions averaged 118 TPY. The Significant Emission Rate for CO is 100 TPY, and for VOC is 40 TPY. Given that the available data shows reduced CO and VOC emissions from the firing of petcoke as compared to coal, the Department finds it unlikely that the increased co-firing of petcoke will cause annual emissions to exceed the PSD thresholds of each pollutant beyond representative past emission rates. Accordingly, a BACT review is not required for these pollutants.

6.3 NITROGEN OXIDE (NO_x)

Test results from other facilities indicate that NO_X emissions are typically less for petcoke firing as compared to coal firing. The annual NO_X emissions for these emission units averaged 26558.8 TPY and the Significant Emission Rate for NO_X is 40 TPY. The Department accepts the premise that increased petcoke firing (and decreased coal firing) will not cause annual NO_X emissions to increase, nor specifically to exceed an average of 26598.7 TPY per emission unit. Accordingly, a BACT review is not required.

6.4 SULFUR DIOXIDE (SO₂) AND SULFURIC ACID MIST (SAM)

The past actual average emissions of SO₂ and SAM were 21718.8 and 1316.9 TPY respectively. The Significant Emission Rate (SER) is 40 TPY for SO₂ and 7 TPY for SAM. The Department accepts the applicant's proposal that SO₂ and SAM emissions can be maintained below the respective SER by additional scrubbing with the existing wet FGD. The applicant additionally proposes to reduce the SO₂ limit (while co-firing) below the existing permit limit, as an additional means of providing assurance to the Department that SO₂ (as well as SAM) emissions will not increase. The combination of additional scrubbing and a reduced emission limit is acceptable to the Department and should ensure that the annual emission levels of SO₂ and SAM do not exceed the PSD thresholds for each pollutant beyond representative past emission rates (21758.7 TPY SO₂ and 1323.8 TPY SAM). In addition to this, the Department will place a limit on the throughput of petcoke at 30% on a heat input basis. Accordingly, the SO₂ and SAM emission increases are considered insignificant for PSD purposes and BACT reviews are not required.

6.5 PARTICULATE MATTER (PM/PM₁₀)

As indicated above, it is reasonable to assume that PM10 and PM emissions will be lowered as a result of the tenfold decrease in fuel ash. Accordingly, the annual PM/PM₁₀ emissions from the stack are likely to be maintained with no increase above the PSD significant emission rate of 25/15 tons/year.

With regard to ancillary (or fugitive) emissions, the applicant estimates that particulate matter emissions will be reduced. This is based upon the increased heat input value of petcoke as compared to coal, meaning that a reduction in the overall tons of fuel handled will occur. In summary, the average PM/PM₁₀ emissions from each emission unit are likely to remain less that the PSD thresholds for each pollutant and no PSD Review is required.

6.6 SUMMARY

A preliminary review supports the applicant's contention that PSD is not triggered, eliminating the requirement for a BACT review and related modeling. PSD regulations (under the provisions commonly known as the "WEPCO rule") allow a source undertaking a non-routine change that could affect emissions at an electric utility steam generating unit to lawfully avoid the major source permitting process by using the unit's representative actual annual emissions to calculate emissions following the change, if the source submits information for 5 years following the change to confirm its pre-change projection. Under the WEPCO rule, SJRPP must compute baseline actual emissions and must project the future actual emissions from the modified units for a period after the physical change. In addition, SJRPP must maintain and submit to the Department on an annual basis for a period of at least 5 years

from the date the units resume regular operation, information demonstrating that the change did not result in a significant emissions increase. If SJRPP fails to comply with the reporting requirements of the WEPCO rule or if the submitted information indicates that emissions have increased above PSD thresholds as a consequence of the change, it will be required to obtain a PSD permit for petcoke co-firing (meaning that a BACT Review would then be applicable). Finally, even though a PSD review is not triggered due to the co-firing project, SJRPP must meet all other applicable federal, state, and local air pollution requirements.

7. ADDITIONAL COMPLIANCE PROCEDURES (AVERAGE PER EMISSION UNIT)

Pollutant	Compliance Procedures
NO _X	Five years of annual reporting by CEMS proving annual emissions do not exceed 26598.7 TPY
СО	Five years of annual reporting by stack test proving annual emissions do not exceed 1066 TPY
VOC	Five years of annual reporting by historical AOR methods, proving annual emissions do not exceed 158.5 TPY
SO ₂	Five years of annual reporting by CEMS proving annual emissions do not exceed 21758.7 TPY
SAM	Five years of annual reporting by stack test proving annual emissions do not exceed 1323.8 TPY
PM	Five years of annual reporting by stack test proving annual facility emissions do not exceed 346.7 TPY

Specific permit conditions shall further describe these limitations. The reporting procedures are to begin during the first calendar year in which petcoke is fired.

8. CONCLUSION

Based on the foregoing technical evaluation of the application, additional information submitted by the applicant and other available information, the Department has made a final determination that the proposed project will comply with all applicable state and federal air pollution regulations.

Michael P. Halpin, P.E. Review Engineer
Department of Environmental Protection, Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Postage S Certified Fee Postmark Here Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total Pos Mr. James M. Chansler V.P. Operations and Maintenance JEA or PO Box. St. Johns River Power Park City, State. 21 West Church Street Jacksonville, Florida 32202 PS Form 3800. January 2001 See Reverse to Leave	2107	CERT	IFIE	Service D MAIL REGE Only; No Insurance Co	EIPT overage Provide	d)
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Mr. James M. Chansler V.P. Operations and Maintenance JEA or PO Box. City. State. Jacksonville, Florida 32202	0.0	(Endorsement)	Required)			
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