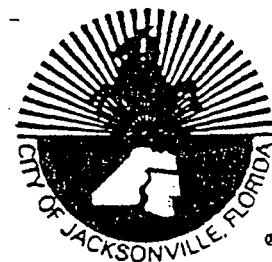


REGULATORY & ENVIRONMENTAL  
SERVICES DEPARTMENT  
Air Quality Division



September 15, 1994

Mr. Clair Fancy, P.E., Chief  
Bureau of Air Regulation  
Department of Environmental Protection  
2600 Blair Stone Road  
Twin Towers Office Bldg.  
Tallahassee, FL 32399-2400

RECEIVED

SEP 18 1994

Bureau of  
Air Regulation

Re: Draft of Permit Specific Conditions For Title V Permitting

Dear Mr. Fancy:

Please find enclosed specific conditions as requested in your August 30, 1994 memorandum. Pursuant to Part I, No. 6 of the SOA, AQD has drafted two General Specific Conditions which should be included in all Title V Permits and Construction Permits issued for sources in Duval County. Also enclosed are Specific Conditions which are generic to Construction and Operation Permits drafted by AQD for Duval County.

Please address any questions or comments to me at (904) 630-3484/SC 986-3484.

Very truly yours,

*Ronald L. Roberson*

Ronald L. Roberson  
Associate Engineer

RLR/ecr

c: Mr. Bruce Mitchell, DEP/Talla.  
Air Permitting File

cc: Scott Stapleton 9/19/94

Beth Hardin 10/31/94

*Scott B.R. is checking on  
status. Their rules are being  
Jonathan, re-numbered. He  
will let me know  
when they are final.  
Do we have these*

*electronically signature?*

*Some of these will be needed  
for TV permits.*

*9/23 Scott*



**SPECIFIC CONDITIONS: OPERATION PERMITS ONLY**

1. Permittee shall notify the Air Quality Division (AQD) fifteen (15) days prior to source testing in accordance with Rule 62-297.340(1)(i), Florida Administrative Code (FAC), and Rule 2, Part X, Jacksonville Environmental Protection Board (JEPB).
2. Copies of the test report(s) shall be submitted to AQD within forty-five (45) days of completion of testing in accordance with Rule 62-297.570(2), FAC, and Rule 2, Part X, JEPB.
3. Testing of emissions shall be conducted with the source operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating rate allowed by the permit. If it is impracticable to test at permitted capacity, then sources may be tested at less than capacity; in this case subsequent source operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity in the permit.
4. Any revision(s) to a permit (and application) shall be submitted to and approved by AQD prior to implementing.
5. Control equipment shall be provided with a method of access that is safe and readily accessible.
6. Stack sampling ports and platforms shall not be required.
- OR*
6. Stack sampling facilities shall be required and shall comply with the requirements of Rule 62-297.345 FAC, and Rule 2, Part X, JEPB.
7. Permittee shall submit an annual operation report to AQD for this (these) source (sources) on the form(s) supplied for each calendar year on or before March 1 in accordance with Rule 62-210.370(2), FAC, and Rule 2, Part II, JEPB.

## GENERAL SPECIFIC CONDITIONS

### 1. Objectionable Odors

Pursuant to Jacksonville Environmental Board Rule 2, Part IX, no person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor.

### 2. Odor Nuisance

Pursuant to Jacksonville Ordinance Code Chapter 376.110, any facility that causes or contributes to the emission of objectionable odors which results in the Air Quality Division (AQD) receiving and validating complaints from five or more different households with in a 90 day period and can be cited for objectionable odors.

**REGULATORY & ENVIRONMENTAL  
SERVICES DEPARTMENT**  
Air Quality Division



May 1, 1995

Mr. Robert Leetch, P.E.  
Department of Environmental Protection  
Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

JACKSONVILLE ELECTRIC AUTHORITY  
**RECEIVED**

MAY 03 1995

Environmental, Health  
& Safety Department

**RE: Duval County - Air Pollution  
JEA Generating Station Fuel Storage Tanks  
Kennedy Permit No. AO16-225064  
Northside Permit No. AO16-225069  
Southside Permit No. AO16-225066**

Dear Mr. Leetch:

The City of Jacksonville, Regulatory and Environmental Services Department, Air Quality Division (AQD) received a request on March 31, 1995 from JEA to amend the above referenced permits (attachment). The request is to delete throughput limits and the associated record-keeping requirements. In accordance with the Standard Operating Agreement, AQD is referring this request to your office for processing and final agency action.

AQD has reviewed this request and provides the following recommendations.

1. Specific Condition 7. of each referenced permit limits the throughput of No. 6 and No. 2 fuel oil. AQD agrees with JEA that the throughput limits should be eliminated.
2. AQD recommends that the record-keeping requirements for fuel oil throughput be maintained. An estimate of emissions for the AOR and Title V inventories will require this data.



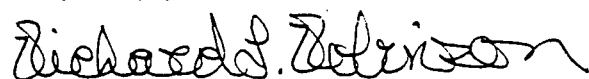
421 West Church Street - Suite 412  
Jacksonville, Florida 32202-4111

Area Code 904/630-3484

Mr. Robert Leetch, P.E.  
May 1, 1995  
Page 2

Please contact me or Mr. Ronald L. Roberson at (904) 630-3484 for any additional information.

Very truly yours,



Richard L. Robinson, P.E.  
Pollution Control Engineer

RLR/ecr

Attachment

c: ✓ Mr. Richard Breitmoser, P.E. - JEA  
Mr. Wayne Tutt, AQD  
AQD File 1700-A  
AQD Permitting File

# JACKSONVILLE ELECTRIC AUTHORITY

21 WEST CHURCH STREET • JACKSONVILLE, FL 32202-3139



September 11, 1996

**RECEIVED**  
SEP 16 1996  
BUREAU OF  
AIR REGULATION

Mr. Jonathan Holtom

Title V Section  
Mail Station 5505  
Florida Dept. of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, Florida 32399

Dear Mr. Holtom:

RE: Northside Generating Station  
Kennedy Generating Station  
Southside Generating Station  
Title V Permit Applications -- Supplemental Information

Attached please find the permit revision dated May 1, 1995 removing the throughput limits on the fuel storage tanks at each of the above facilities.

Also enclosed is the permit revision dated July 16, 1996 removing the fuel sulfur limits at the Northside station and providing for using the CEMs to show continuous compliance with the SO<sub>2</sub> emission limit using a 24-hour midnight-to-midnight average.

*was it extend by Rule?*

Finally, please note that no information was provided for Unit 3 at the Southside station since that unit is no longer in service and the air operating permit has been allowed to expire. Southside Units 1 and 2 air operating permits were surrendered during the St. Johns River Power Park permitting process and the emissions were used as offsets for modeling PSD increment consumption.

Mr. Jonathan Holtom  
September 11, 1996  
Page Two

All of these conditions are reflected in the Title V permit application as previously submitted.

If you have any questions with regard to this matter, please contact Bert Gianazza of my staff at (904) 632-6247.

Sincerely,

A handwritten signature in black ink, appearing to be 'Richard Breitmoser', with a long horizontal line extending to the right.

Richard Breitmoser, P.E.  
Vice-President  
Environmental Health &  
Safety Group

RB/NBG

TITLEV2

Florida Department of  
**Environmental Protection**

Memorandum

TO: Mr. Walter P. Brussels, Managing Director, JEA  
Mr. Brian M. Wirz, Designated Representative, JEA  
Mr. Richard Robinson, AWQD  
Mr. Richard Breitmoser, P.E., JEA  
Mr. Bert Gianazza, Applicant Contact, JEA

THRU: Scott M. Sheplak, P.E., Title V Section

FROM: Bruce Mitchell

DATE: July 18, 1997

SUBJECT: Replacement Pages Regarding the DRAFT Title V Operation Permit  
Jacksonville Electric Authority - Southside Generating Station  
Title V Operation Permit No.: 0310046-001-TV

Based on a review of Table 1-1, a typo was found on Boiler #5 for SO<sub>2</sub> emissions. The original table listed the equivalentl TPY as 5,086.4 and should have been 7,227.0. Please replace the enclosed page with the appropriate page in the DRAFT permit package that was mailed to you on the 10th.

If there are any questions, please give me a call @ (850)488-1344 or SC: 278-1344.

/bm

Enclosures



**Table 1-1, Summary of Air Pollutant Standards and Terms**

Jacksonville Electric Authority  
Southside Generating Station

DRAFT Permit No.: 0310046-001-AV  
Facility ID No.: 0310046

This table summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of the permit.

E. U. ID No.	Brief Description	Pollutant Name	Fuel(s)	Hours/Year	Allowable Emissions			Equivalent Emissions*		Regulatory Citation(s)	See Permit Condition(s)
					Standard(s)	lbs./hour	TPY	lbs./hour	TPY		
-004	Boiler #4 (796 MMBtu/hr) (825 MMBtu/hr)  Acid Rain Phase II Unit	VE	No. 6 F.O.	8760	20%; 40% - 1 two min. period/hr.			N/A	N/A	62-296.405(1)(a)	A.5. & A.6.
			Natural Gas	8760	20%; 40% - 1 two min. period/hr.			N/A	N/A	62-296.405(1)(a)	A.5. & A.6.
	PM	No. 6 F.O.	8760	0.1 lb/MMBtu	N/A	N/A	79.6	348.7	62-296.405(1)(b)	A.7.	
		Natural Gas	8760	0.1 lb/MMBtu	N/A	N/A	82.5	361.4	62-296.405(1)(b)	A.7.	
	PM - SB **	No. 6 F.O.	3 hr/day	0.3 lb/MMBtu	N/A	N/A	238.8	435.8	62-210.700(3)	A.8.	
		Natural Gas	3 hr/day	0.3 lb/MMBtu	N/A	N/A	247.5	451.7	62-210.700(3)	A.8.	
(75.0 MW Turbine-generator)	SO <sub>2</sub>	No. 6 F.O.	8760	1.10 lb/MMBtu	N/A	N/A	875.6	3,835.1	62-296.405(1)(c)1.b.	A.9.	
		Natural Gas	8760	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	% Sulfur	No. 6 F.O.	8760	max. sulfur content 1.0 %, by wt.			875.6	3,835.1	Applicant Request	A.10.	
-005	Boiler #5 (1500 MMBtu/hr) (1550 MMBtu/hr)  Acid Rain Phase II Unit	VE	No. 6 F.O.	8760	20%; 40% - 1 two min. period/hr.			N/A	N/A	62-296.405(1)(a)	A.5. & A.6.
			Natural Gas	8760	20%; 40% - 1 two min. period/hr.			N/A	N/A	62-296.405(1)(a)	A.5. & A.6.
	PM	No. 6 F.O.	8760	0.1 lb/MMBtu	N/A	N/A	150.0	657.0	62-296.405(1)(b)	A.7.	
		Natural Gas	8760	0.1 lb/MMBtu	N/A	N/A	155.0	678.9	62-296.405(1)(b)	A.7.	
	PM - SB **	No. 6 F.O.	3 hr/day	0.3 lb/MMBtu	N/A	N/A	450.0	821.3	62-210.700(3)	A.8.	
		Natural Gas	3 hr/day	0.3 lb/MMBtu	N/A	N/A	465.0	848.6	62-210.700(3)	A.8.	
(156.6 MW Turbine-generator)	SO <sub>2</sub>	No. 6 F.O.	8760	1.10 lb/MMBtu	N/A	N/A	1,650.0	7,227.0	62-296.405(1)(c)1.b.	A.9.	
		Natural Gas	8760	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	% Sulfur	No. 6 F.O.	8760	max. sulfur content 1.0%, by wt.			1,650.0	7,227.0	Applicant Request	A.10.	
-010	Auxiliary Boiler #1 (21.0 MMBtu/hr)	VE	No. 2 F.O.	8760	15%; 40% - 1 two min. period/hr.			N/A	N/A	AC16-86190	B.5. & B.6.
			Natural Gas	8760	15%; 40% - 1 two min. period/hr.			N/A	N/A	AC16-86190	B.5. & B.6.
		% Sulfur	No. 2 F.O.	8760	max. sulfur content 0.5%, by wt.			97.4	340.6	AC16-86190	B.8.
		SO <sub>2</sub>	Natural Gas	8760	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**Notes:**  
 \* The "Equivalent Emissions" listed are for informational purposes.  
 \*\* PM - SB refers to "soot blowing" and "load change".

[electronic file name: 03100461.xls]

REGULATORY AND ENVIRONMENTAL SERVICES DEPARTMENT

F A X COVER SHEET

AIR AND WATER QUALITY DIVISION

421 West Church Street, Suite 422  
Jacksonville, Florida 32202  
(904) 630-3484 (Office)  
(904) 630-3638 (Fax)

DATE: 6/18/97

TIME: 11:45 A

TO: BRUCE MITCHELL

FAX # 904 922-6979

MESSAGE: \_\_\_\_\_

FROM: BOB ROBERSON

NUMBER OF PAGES FAXED (Including cover): 5

PLEASE CALL (904) 630-3484 IF YOU DO NOT RECEIVE ALL THE PAGES OF THIS FAX  
OR IF TRANSMISSION IS UNCLEAR. OUR FAX NUMBER IS (904) 630-3638.

JACKSONVILLE ELECTRIC AUTHORITY  
OPERATION AND MAINTENANCE PLAN

In compliance with Section 17-2.650(2)(g)4. of the Florida Administrative Code, the Jacksonville Electric Authority submits its "Operation and Maintenance Plan", to be appended where appropriate to unit operating permits.

Operation and Maintenance

Following is a list of activities to be accomplished for the control of particulate emissions from units in or impacting the Duval County non-attainment area. These schedules apply to each on-line unit.

Daily:

1. Clean one deck of burners (renew tips as necessary).
2. Conduct one complete soot-blowing cycle (or as needed).
3. Maintain optimum fuel oil temperature and pressure.

Weekly:

1. Clean fuel oil strainers (more frequently if required).

Annually:

1. Clean the boiler and inspect baffles.
2. Inspect the:
  - (a) wind box;
  - (b) registers;
  - (c) diffusers;
  - (d) refractory throat.
3. Adjust the air registers for optimum flame pattern (more frequently if required).
4. Replace burner tips (more frequently if required).

### Major Outages:

1. Overhaul the: (a) turbine/generator  
(b) boiler and auxiliary equipment.
2. Calibrate the: (a) flow meters including sensing  
line checks;  
(b) pneumatic controls;  
(c) temperature gauges.

### Performance Parameters

The following operational parameters are to be recorded on a bi-hourly basis.

1. Steam flow.
2. Number of burners in service.
3. Burner oil pressure.
4. Burner oil temperature.

Fuel Type: Number 6 residual oil unless otherwise stated.

### Records

Records of all operating data and maintenance procedures listed herein shall be retained at the Generating Station for review, upon request, for a period of two years.

## JACKSONVILLE ELECTRIC AUTHORITY

OPERATION AND MAINTENANCE PLAN  
FOR SS #4 & 5 WHEN BURNING GAS

Following is a list of activities required for the control of emissions from JEA gas fired generating units. Previous O & M procedures shall apply during oil firing periods.

Daily:

1. Visually check individual burner flame patterns and adjust register as necessary.
2. Maintain optimum fuel/air ratios.

Annually (or as necessary):

1. Clean the boiler and inspect baffles.
2. Inspect the: (a) wind box;  
(b) register;  
(c) diffusers;  
(d) refractory throat.
3. Adjust the air registers for optimum flame pattern.
4. Inspect burner heads and clean or replace as necessary.

Major Outages:

1. Calibrate the: (a) flow meters including sensing line checks;  
(b) pneumatic controls  
(c) temperature gauges.

Performance Parameters

The following operating records shall be maintained:

1. Steam flow;
2. Fuel flows;
3. Air flow;

Records:

Records of all operating data and maintenance procedures listed herein shall be retained at the Generating Station for review, upon request, for a period of two years.

April 11, 1984

Revised May 7, 1985

**Major Outages:**

1. Overhaul the: (a) turbine/generator  
(b) boiler and auxiliary equipment.
2. Calibrate the: (a) flow meters including sensing  
line checks;  
(b) pneumatic controls;  
(c) temperature gauges.

**Performance Parameters**

The following operational parameters are to be recorded on a bi-hourly basis.

1. Steam flow.
2. Burner oil pressure.
3. Burner oil temperature.

Fuel Type: Number 6 residual oil unless otherwise stated.

**Records**

Records of all operating data and maintenance procedures listed herein shall be retained at the Generating Station for review, upon request, for a period of two years.

# JACKSONVILLE ELECTRIC AUTHORITY

21 WEST CHURCH STREET • JACKSONVILLE, FL 32202-3139



May 14, 1997

Mr. Robert Leetch, P.E.  
Department of Environmental Protection  
Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

**RECEIVED**

MAY 19 1997

BUREAU OF  
AIR REGULATION

RE: Southside Generating Station Unit 5 (AO16-214191)  
Request for Permit Revision

Dear Mr. Leetch:

The purpose of this correspondence is to request a change in the annual stack test date for the above referenced unit from December 15th to October 1st. This date would allow us to test the unit during the peak months of August and September and reduce the chances of having to start a unit solely for stack testing purposes.

If you have any questions with regard to this matter, please call Bert Gianazza of my staff at 632-6247.

Sincerely,

A handwritten signature in black ink, appearing to read 'Richard Breitmoser', is written over a horizontal line.

Richard Breitmoser, P.E.  
Vice President, Environmental  
Health & Safety Group

RB/NBG

cc: Emerson Raulerson, FDEP, Northeast District  
Ron Roberson, RESD  
Jonathan Holtom, FDEP, Tallahassee

bc: Robert Kappelmann  
George Rizk  
Galan Connell  
Brian Wray  
Stan Stokes  
Bert Gianazza  
Files 4.4.1.5

SGS5DATE



*Bruce*

Florida Department of  
**Environmental Protection**

**Memorandum**

---

TO: Chris Kirts, NED

FROM: Bruce Mitchell *BM*

DATE: May 6, 1997

SUBJECT: Completeness Review of an Application Package for a Title V Operation Permit  
Jacksonville Electric Authority, Southside: 0310046-001-AV

Enclosed is an application package for a Title V operation permit that is being processed in Tallahassee. Please review the package for completeness and respond in writing by June 6, 1997, if you have any comments. Otherwise, no response is required.

It is very important to verify the compliance statement regarding the facility, since we do not have a readily effective means of determining compliance at the time the application was submitted. Please advise if you know of any emissions unit(s) that were not in compliance at that time and provide supporting information. You should have a copy on file of the original initial Title V permit application submittal. Also, please do not write on these documents.

If there are any questions, please call the project engineer, Bruce Mitchell, at 904/488-1344 or SC: 278-1344.

RBM/bjb

Enclosure

cc: Bob Leech

**Section IV. This section is the Acid Rain Part.**

Acid Rain Part, Phase II

**Operated by: Jacksonville Electric Authority**

**ORIS code: 668**

**Effective:**

The emissions units listed below are regulated under Acid Rain Part, Phase II.

**E.U.**

**ID No. Description**

- 01 Boiler
- 02 Boiler
- 03 Boiler
- 04 Boiler
- 05 Boiler

1. The Acid Rain Part application submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these acid rain units must comply with the standard requirements and special provisions set forth in the application listed below:

- a. DEP Form No. 62-210.900(1)(a), dated 07/01/95.

[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

2. Sulfur dioxide (SO<sub>2</sub>) allowance allocations and nitrogen oxide (NO<sub>x</sub>) requirements for each Acid Rain unit are as follows:

	Year	2000	2001	2002	2003
<b>ID No. 01</b> 1	SO <sub>2</sub> allowances, under Table 2, 3, or 4 of 40 CFR 73	923*	923*		
	NO <sub>x</sub> limit	**	**		
<b>ID No. 02</b> 2	SO <sub>2</sub> allowances, under Table 2, 3, or 4 of 40 CFR 73	954*	954*		
	NO <sub>x</sub> limit	**	**		

<b>ID No. 03</b> <b>3</b>	<b>SO2 allowances, under Table 2, 3, or 4 of 40 CFR 73</b>	223*	223*		
	<b>NOx limit</b>	**	**		
<b>ID No. 04</b> <b>4</b>	<b>SO2 allowances, under Table 2, 3, or 4 of 40 CFR 73</b>	610*	610*		
	<b>NOx limit</b>	**	**		
<b>ID No. 05</b> <b>5</b>	<b>SO2 allowances, under Table 2, 3, or 4 of 40 CFR 73</b>	1797*	1797*		
	<b>NOx limit</b>	**	**		

\*The number of allowances held by an Acid Rain source in a unit account may differ from the number allocated by the USEPA under Table 2, 3, or 4 of 40 CFR 73.

\*\*By January 1, 1999, this Part will be reopened to add NOx requirements in accordance with the regulations implementing section 407 of the Clean Air Act.

3. Comments, notes, and justifications: None.

---

**Section V. Attachments and relevant documents.**

Acid Rain Application/Compliance Plan received 12/26/95.

# JACKSONVILLE ELECTRIC AUTHORITY

21 WEST CHURCH STREET • JACKSONVILLE, FL 32202-3139



June 14, 1996

Mr. John Brown, P.E.  
P.E. Administrator  
Title V Section  
Mail Station 5505  
Florida Dept. of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, Florida 32399

RECEIVED  
JUN 14 1996  
BUREAU OF  
AIR REGULATION

Dear Mr. Brown:

RE: St. Johns River Power Park  
Northside Generating Station  
Kennedy Generating Station  
Southside Generating Station  
Title V Permit Applications

Attached please find the required Title V permit applications for the above referenced power plants. Please note that the St. Johns River Power Park (SJRPP) and the Northside Generating Station are one facility under the Title V definition of "facility" (even though in the traditional sense they are two separate plants) and therefore the parts of the application that apply to the facility as a whole appear in the ring binder for SJRPP only. The unit-specific parts of the application were kept separate to minimize any potential confusion between the two plants.

All of the above plants will be disposing of non-hazardous boiler chemical cleaning waste in accordance with the recently issued DARM guidance document, "Disposal of Non-Hazardous Boiler Chemical Cleaning Waste by Incineration and Evaporation". If this needs to be reflected in our Title V permit in any fashion, please include the proper language required in the permit or advise us of any additional information needed to permit this activity.

DARM-SS/CE-07

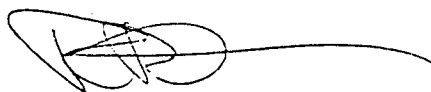
will be reflected in TV permit

Jonathan: Do current permits prohibit? If not, I recommend we wait & include in TV permit.  
Scott

Mr. John Brown  
June 14, 1996  
Page Two

If you have any questions with regard to this matter, please contact Bert Gianazza of my staff at (904) 632-6247.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Breitmoser', with a long horizontal flourish extending to the right.

Richard Breitmoser, P.E.  
Vice-President  
Environmental Health &  
Safety Group

RB/NBG

TITLEVAP

# JACKSONVILLE ELECTRIC AUTHORITY

21 WEST CHURCH STREET • JACKSONVILLE, FL 32202-3139



May 14, 1997

Mr. Robert Leetch, P.E.  
Department of Environmental Protection  
Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

RE: Southside Generating Station Unit #3  
Surrender of Permit No. AO16-214192

Dear Mr. Leetch:

The purpose of this letter is to surrender the above referenced air operating permit. Southside Units 1 and 2 permitted air emissions were used as offsets during the permitting of the Saint Johns River Power Park.

If you have any questions with regard to this matter, please call Bert Gianazza of my staff at 632-6247.

Sincerely,

A handwritten signature in black ink, appearing to read 'Richard Breitmoser', is written over a horizontal line.

Richard Breitmoser, P.E.  
Vice President, Environmental  
Health & Safety Group

RB/NBG

cc: Emerson Raulerson, FDEP, Northeast District  
Ron Roberson, RESD  
Jonathan Holtom, FDEP, Tallahassee

bc: J. Eckenbach  
G. Connell  
S. Stokes  
R. Kappelmann  
B. Gianazza  
File 4.4.1.3

SGS3SURR