

One Energy Place
Pensacola, Florida 32520

850.444.6111

RECEIVED

AUG 24 1999

BUREAU OF AIR REGULATION



August 23, 1999

Mr. Scott M. Sheplak, P.E.
Department of Environmental Protection
Division of Air Resources Management
Mail Station #5505
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Mr. Sheplak:

RE: Plant Crist Title IV Phase II NOx Compliance Plan
Southern System NOx Averaging Plan Revision
ORIS Code: 641
FDEP Draft Permit No: 0330045-001-AV

Attached, please find Gulf Power's revised Phase II NOx Averaging Plan for the Crist Electric Generating Plant (ORIS Code 641). Please note that the new original signed copy of the averaging plan is attached to this correspondence and copies are attached to other Gulf Power submissions, i.e. (Scholz and Lansing Smith). ***This revised submission changes the Southern Company System NOx Averaging Plan to include four units at Plant Arkwright at Georgia Power. Additionally, these forms are being resubmitted on FDEP forms as requested in our meeting on August 6, 1999.***

The NOx compliance plan for this unit utilizes a NOx averaging plan that includes other affected units in the Southern Company. Title V permitting authorities with jurisdiction over the units in the plan include the States of Alabama, Georgia and Mississippi, as well as the Jefferson County Department of Health in Alabama. Our sister operating companies within the Southern Company have provided their respective state environmental regulatory agencies a copy of this NOx averaging plan with their Phase II NOx permit compliance plans, thereby fulfilling the requirement of the General Instructions (Item 4a) to provide a copy of the plan to other Title V permitting authorities with jurisdiction over any units in the plan.

If you have any questions or need further information regarding the Crist Title IV Phase II Compliance and Averaging Plan, please call me at (850) 444.6527.

Sincerely,

A handwritten signature in black ink that reads "G. Dwain Waters Q.E.P.".

G. Dwain Waters, Q.E.P.
Air Quality Programs Coordinator

Page 2

Mr. Scott M. Sheplack, P.E.

August 23, 1999

cc: Robert G. Moore, Gulf Power Company
James O Vick, Gulf Power Company
J. W. Martin, Gulf Power Company
John Dominey, Gulf Power Company
Danny Herrin, Southern Company Services
R. Doug Neeley, EPA Region IV

Florida Department of Environmental Protection

Phase II NO_x Averaging Plan

For more information, see instructions for DEP Form No. 62-210.900(1)(a)4. and refer to 40 CFR 76.11

This submission is: New Revised

STEP 1

Identify the units participating in this averaging plan by plant name, state, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
See Page 3.					

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

0.46

0.46

≤

$$\frac{\sum_{i=1}^n (R_{Li} \times HI_i)}{\sum_{i=1}^n HI_i}$$

≤

$$\frac{\sum_{i=1}^n [R_{li} \times HI_i]}{\sum_{i=1}^n HI_i}$$

W here,

- R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in 16/mmBtu, as specified in column (b) of Step 1;
- R_{li} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;
- HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;
- n = Number of units in the averaging plan

Southern Company Averaging Plan Participating Plants

Plant Name (from Step 1)

STEP 3

Mark one of the two options and enter dates.

This plan is effective for calendar year _____ through calendar year _____ unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: 2000, 2001, 2002, 2003 and 2004 unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

- (i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
 - (a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
 - (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
- (iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

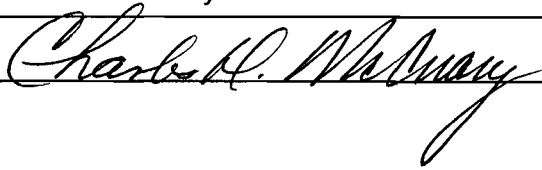
The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Charles D. McCrary	
Signature 	Date 8/17/99

Southern Company Averaging Plan Participating Plants

Plant Name (from Step 1)

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
Arkwright	GA	1	0.45	0.70	1,875,509
Arkwright	GA	2	0.45	0.70	1,886,089
Arkwright	GA	3	0.50	0.70	2,006,321
Arkwright	GA	4	0.50	0.70	1,932,669
Barry	AL	1	0.40	0.49	10,805,761
Barry	AL	2	0.40	0.49	10,643,159
Barry	AL	3	0.40	0.49	17,148,763
Barry	AL	4	0.40	0.37	25,471,720
Barry	AL	5	0.40	0.45	50,897,853
Bowen	GA	1	0.45	0.42	45,395,755
Bowen	GA	2	0.45	0.43	46,911,826
Bowen	GA	3	0.45	0.43	59,796,338
Bowen	GA	4	0.45	0.43	62,106,898
Branch	GA	1	0.68	0.99	14,906,580
Branch	GA	2	0.50	0.72	16,571,123
Branch	GA	3	0.68	0.84	27,015,768
Branch	GA	4	0.68	0.84	28,967,878
Crist	FL	4	0.45	0.52	3,062,929
Crist	FL	5	0.45	0.60	4,850,348
Crist	FL	6	0.50	0.45	17,603,755
Crist	FL	7	0.50	0.45	32,267,381
Daniel	MS	1	0.45	0.28	28,010,957
Daniel	MS	2	0.45	0.26	29,025,313
Gadsden	AL	1	0.45	0.65	2,473,380
Gadsden	AL	2	0.45	0.68	2,333,659
Gaston	AL	1	0.50	0.43	15,666,430
Gaston	AL	2	0.50	0.43	15,642,121
Gaston	AL	3	0.50	0.43	16,016,613
Gaston	AL	4	0.50	0.43	15,780,983
Gaston	AL	5	0.45	0.42	43,137,116
Gorgas	AL	6	0.46	0.86	5,058,595
Gorgas	AL	7	0.46	0.86	5,052,447
Gorgas	AL	8	0.40	0.49	11,173,785
Gorgas	AL	9	0.40	0.30	10,939,664
Gorgas	AL	10	0.40	0.76	46,251,622

Southern Company Averaging Plan Participating Plants

Plant Name (from Step 1)

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
Greene Co	AL	1	0.68	0.98	19,524,675
Greene Co	AL	2	0.46	0.43	18,839,670
Hammond	GA	1	0.50	0.83	4,539,663
Hammond	GA	2	0.50	0.83	6,333,156
Hammond	GA	3	0.50	0.83	6,439,818
Hammond	GA	4	0.50	0.45	26,126,591
Kraft	GA	1	0.45	0.58	2,974,849
Kraft	GA	2	0.45	0.58	2,238,703
Kraft	GA	3	0.45	0.58	3,971,009
L. Smith	FL	1	0.40	0.62	9,199,644
L. Smith	FL	2	0.40	0.44	10,154,723
McDonough	GA	1	0.45	0.42	18,934,013
McDonough	GA	2	0.45	0.42	17,338,565
McIntosh	GA	1	0.50	0.86	8,568,975
Miller	AL	1	0.46	0.29	53,814,591
Miller	AL	2	0.46	0.29	52,772,559
Miller	AL	3	0.46	0.29	49,093,163
Miller	AL	4	0.46	0.29	55,722,252
Mitchell	GA	3	0.45	0.62	5,322,072
Scherer	GA	1	0.40	0.50	52,573,864
Scherer	GA	2	0.40	0.50	55,563,600
Scherer	GA	3	0.45	0.29	37,912,770
Scherer	GA	4	0.40	0.30	70,093,731
Scholz	FL	1	0.50	0.68	1,855,434
Scholz	FL	2	0.50	0.77	1,864,795
Wansley	GA	1	0.45	0.41	53,141,279
Wansley	GA	2	0.45	0.42	49,741,786
Watson	MS	4	0.50	0.50	17,100,575
Watson	MS	5	0.50	0.65	33,455,317
Yates	GA	1	0.45	0.48	3,853,527
Yates	GA	2	0.45	0.48	4,687,321
Yates	GA	3	0.45	0.48	3,981,916
Yates	GA	4	0.45	0.40	7,087,706
Yates	GA	5	0.45	0.40	5,186,897
Yates	GA	6	0.45	0.33	13,373,298
Yates	GA	7	0.45	0.30	14,601,869

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Pensacola, Florida 32529

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JUL 27 1999

BUREAU OF AIR REGULATION

Certified Mail



July 19, 1999

Mr. Scott M. Sheplak, P.E.
Department of Environmental Protection
111 South Magnolia Drive, Suite 4
Tallahassee, Florida 32301

Dear Mr. Sheplak:

RE: Revised Title IV Phase I NOx Compliance Plan
Plant Crist: 0330045-001-AV (ORIS Code: 641)
Plant Scholz: 0630014-001-AV (ORIS Code: 642)

Attached, please find Gulf Power's revised Phase I NOx Compliance Plan for 1999. This plan was submitted to EPA on June 28, 1999 and once processed by EPA will become effective as our NOx Averaging Compliance Plan for 1999. The plan includes coal fired units located in Florida for Plant Crist Units 4,5,6 & 7 (ORIS Code 641) and Plant Scholz Units 1 & 2 (ORIS Code 642). ***This revised submission changes Gulf Power's Phase I compliance plan from a Gulf-Mississippi Power NOx averaging plan to a Southern Company System NOx Averaging Plan.*** However, none of the previously submitted ACEL's from the individual plans have changed. They (the individual plans for Gulf-Mississippi, Alabama, Georgia-Savannah) were combined to give a greater margin of compliance.

If you have any questions or need further information regarding the Southern Company Title IV Phase I Compliance and Averaging Plan, please call me at (850) 444.6527.

Sincerely,

A handwritten signature in black ink that reads "G. Dwain Waters Q.E.P.".

G. Dwain Waters, Q.E.P.
Air Quality Programs Coordinator

Page 2
Mr. Scott Sheplak
July 19, 1999

cc: Robert G. Moore, Gulf Power Company
James O Vick, Gulf Power Company
Joe Martin, Gulf Power Company
John Dominey, Gulf Power Company
Kim Flowers Gulf Power Company
Ken Peacock, Gulf Power Company
Danny Herrin, Southern Company Services

Southern Company Services, Inc.
Post Office Box 2641
Birmingham, Alabama 35291-8195
Tel 205.257.1000

June 28, 1999



Mr. Doug Neeley
U. S. Environmental Protection Agency
Region 4
61 Forsyth Street, S.W.
Atlanta, Georgia 30303 - 8960

Dear Mr. Neeley:

Please find enclosed for your review and approval a revised Southern Company Phase I NOx Averaging Plan for 1999. This revision has been discussed with Ms. Jenny Jachim in your office and Mr. Robert Miller at EPA Headquarters in Washington, D.C.

The revised NOx averaging plan includes all Phase I Southern Company units and is designed to replace the three current, separate plans for Alabama Power Company, Georgia Power Company/Savannah Electric and Power Company, and Gulf Power Company/Mississippi Power Company. The numbers in this plan are the same numbers that appear in the three separate plans. No changes in operation are anticipated or planned because of this revised averaging plan.

If you have questions or need additional information about this plan, please contact me at (205) 257-6468.

Sincerely,

A handwritten signature in cursive script that reads "W. Danny Herrin".

W. Danny Herrin

Enclosure:

cc: Mr. Robert Miller	- EPA Headquarters
Mr. Anthony Marino	- Alabama Power Company
Mr. Phil Glisson,	- Georgia Power Company
Mr. Dwain Waters	- Gulf Power Company
Mr. Pat Hedden	- Mississippi Power Company
Mr. Lamar Keller	- Savannah Electric and Power Company



NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

This submission is: New Revised

Page of

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue on page 3 if necessary

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
See pages 7 & 8					

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

0.46

$$\frac{\sum_{i=1}^n (R_{Li} \times HI_i)}{\sum_{i=1}^n HI_i}$$

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

0.46

$$\frac{\sum_{i=1}^n [R_{li} \times HI_i]}{\sum_{i=1}^n HI_i}$$

≤

Where,

R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;

R_{li} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;

HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;

n = Number of units in the averaging plan

STEP 3
Mark one of the two options and enter dates

This plan is effective for calendar year through calendar year unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: , , , and unless notification to terminate one or more of these plans is given.

STEP 4
Read the special provisions and certification, enter the name of the designated representative, and sign and date

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitations for NOx under the plan only if the following requirements are met:

- (i) For all units, the unit's actual annual average emission rate for the calendar year, in lbs/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
 - (a) For units with alternative contemporaneous emission limitations less stringent than the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7 of 40 CFR Part 76, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
 - (b) For units with alternative contemporaneous emission limitations more stringent than the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7 of 40 CFR Part 76, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, and
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with the equation at 40 CFR 76.11(d)(1)(ii), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.

Termination

The designated representative may submit a notification to terminate an approved averaging plan in accordance with 40 CFR 72.40(d) of 40 CFR Part 72, no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Earl B. Parsons, Jr.	
Signature <i>Earl B. Parsons Jr.</i>	Date 6/22/99

STEP 3
Mark one of the two options and enter dates

This plan is effective for calendar year through calendar year unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: , , , and unless notification to terminate one or more of these plans is given.

STEP 4
Read the special provisions and certification, enter the name of the designated representative, and sign and date

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitations for NOx under the plan only if the following requirements are met:

- (i) For all units, the unit's actual annual average emission rate for the calendar year, in lbs/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
 - (a) For units with alternative contemporaneous emission limitations less stringent than the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7 of 40 CFR Part 76, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
 - (b) For units with alternative contemporaneous emission limitations more stringent than the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7 of 40 CFR Part 76, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, and
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with the equation at 40 CFR 76.11(d)(1)(ii), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.

Termination

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Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name R. H. Haubein, Jr.	
Signature <i>R. H. Haubein, Jr.</i>	Date 6/22/99

STEP 3
Mark one of the two options and enter dates

This plan is effective for calendar year 1999 through calendar year [] unless notification to terminate the plan is given.

Treat this plan as [] identical plans, each effective for one calendar year for the following calendar years: [], [], [], [] and [] unless notification to terminate one or more of these plans is given.

STEP 4
Read the special provisions and certification, enter the name of the designated representative, and sign and date

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitations for NOx under the plan only if the following requirements are met:

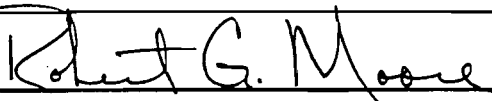
- (i) For all units, the unit's actual annual average emission rate for the calendar year, in lbs/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
 - (a) For units with alternative contemporaneous emission limitations less stringent than the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7 of 40 CFR Part 76, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
 - (b) For units with alternative contemporaneous emission limitations more stringent than the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7 of 40 CFR Part 76, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, and
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with the equation at 40 CFR 76.11(d)(1)(ii), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.

Termination

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Certification

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Name	Robert G. Moore	
Signature		Date 6/22/99

Southern Company Averaging Plan
Participating Plants
Plant Name (from Step 1)

STEP 3
Mark one of the two options and enter dates

This plan is effective for calendar year 1999 through calendar year

unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: , , , and

unless notification to terminate one or more of these plans is given.

STEP 4
Read the special provisions and certification, enter the name of the designated representative, and sign and date

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitations for NOx under the plan only if the following requirements are met:

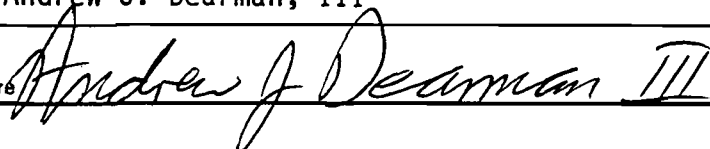
- (i) For all units, the unit's actual annual average emission rate for the calendar year, in lbs/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
 - (a) For units with alternative contemporaneous emission limitations less stringent than the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7 of 40 CFR Part 76, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
 - (b) For units with alternative contemporaneous emission limitations more stringent than the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7 of 40 CFR Part 76, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, and
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Name	Andrew J. Dearman, III	
Signature		Date
		6/22/99

STEP 3

Mark one of the two options and enter dates

This plan is effective for calendar year 1999 through calendar year

unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: , , , and

unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitations for NOx under the plan only if the following requirements are met:

- (i) For all units, the unit's actual annual average emission rate for the calendar year, in lbs/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
- (e) For units with alternative contemporaneous emission limitations less stringent than the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7 of 40 CFR Part 76, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
- (b) For units with alternative contemporaneous emission limitations more stringent than the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7 of 40 CFR Part 76, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, and
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with the equation at 40 CFR 76.11(d)(1)(ii), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.

Termination

The designated representative may submit a notification to terminate an approved averaging plan in accordance with 40 CFR 72.40(d) of 40 CFR Part 72, no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Lamar O. Keller	
Signature <i>Lamar O. Keller</i>	Date 4/23/99

Southern Company Averaging Plan Participating Plants

Plant Name (from Step 1)

as Listed in Step 1.

NO_x Averaging - Page 7

STEP 1
Continue the
identification of
units from Step 1,
page 1, here.

Plant Name	State	ID #	(a)	(b)	(c)
			Emission Limitation	Alt. Contemp. Emission Limitation	Annual Heat Input Limit
Arkwright	GA	1	0.45	1.00	652,199
Arkwright	GA	2	0.45	1.00	652,199
Arkwright	GA	3	0.50	1.00	652,199
Arkwright	GA	4	0.50	1.00	652,199
Bowen	GA	1	0.45	0.44	42,974,115
Bowen	GA	2	0.45	0.44	39,890,926
Bowen	GA	3	0.45	0.44	59,808,558
Bowen	GA	4	0.45	0.44	56,547,329
Branch	GA	2	0.50	0.80	13,635,168
Crist	FL	4	0.45	0.59	4,330,920
Crist	FL	5	0.45	0.59	3,518,988
Crist	FL	6	0.50	0.59	13,451,097
Crist	FL	7	0.50	0.59	20,422,854
Daniel	MS	1	0.45	0.30	21,244,417
Daniel	MS	2	0.45	0.30	29,987,051
Gadsden	AL	1	0.45	0.67	3,412,000
Gadsden	AL	2	0.45	0.67	2,160,000
Gaston	AL	1	0.50	0.45	13,871,000
Gaston	AL	2	0.50	0.45	15,349,000
Gaston	AL	3	0.50	0.45	13,799,000
Gaston	AL	4	0.50	0.45	13,796,000
Gaston	AL	5	0.45	0.48	46,496,000
Hammond	GA	1	0.50	0.80	3,252,464
Hammond	GA	2	0.50	0.80	3,252,464
Hammond	GA	3	0.50	0.80	3,252,464
Hammond	GA	4	0.50	0.50	24,556,996
Kraft	GA	1	0.45	0.60	1,434,816
Kraft	GA	2	0.45	0.60	1,434,816
Kraft	GA	3	0.45	0.60	1,434,816
McDonough	GA	1	0.45	0.45	17,786,887
McDonough	GA	2	0.45	0.45	17,786,887
McIntosh	GA	1	0.50	0.84	5,272,714
Mitchell	GA	3	0.45	0.65	3,087,400
Scherer	GA	3	0.45	0.32	51,627,214
Scholz	FL	1	0.50	0.70	723,608

One Energy Place
Pensacola, Florida 32520

850.444.6111



BUREAU OF
AIR REGULATION

April 22, 1999

Mr. Scott M. Sheplak, P.E.
Department of Environmental Protection
111 South Magnolia Drive, Suite 4
Tallahassee, Florida 32301

Dear Mr. Sheplak:

RE: Plant Crist Title IV Phase II NOx Compliance Plan
Southern System NOx Averaging Plan Revision
ORIS Code: 641
FDEP Draft Permit No: 0330045-001-AV

Attached, please find Gulf Power's revised Phase II NOx Averaging Plan for the Crist Electric Generating Plant (ORIS Code 641). Please note that the new original signed copy of the averaging plan is attached to this correspondence and copies are attached to other Gulf Power submissions, i.e. (Scholz and Lansing Smith). ***This revised submission changes the Southern Company System NOx Averaging Plan to include four units at Plant Arkwright at Georgia Power.***

The NOx compliance plan for this unit utilizes a NOx averaging plan that includes other affected units in the Southern Company. Title V permitting authorities with jurisdiction over the units in the plan include the States of Alabama, Georgia and Mississippi, as well as the Jefferson County Department of Health in Alabama. Our sister operating companies within the Southern Company are providing their respective state environmental regulatory agencies a copy of this NOx averaging plan with their Phase II NOx permit compliance plans, thereby fulfilling the requirement of the General Instructions (Item 4a) to provide a copy of the plan to other Title V permitting authorities with jurisdiction over any units in the plan.

If you have any questions or need further information regarding the Crist Title IV Phase II Compliance and Averaging Plan, please call me at (850) 444.6527.

Sincerely,

G. Dwain Waters, Q.E.P.

G. Dwain Waters, Q.E.P.
Air Quality Programs Coordinator

Page 2
Mr. Scott Sheplack
April 22, 1999

cc: Robert G. Moore, Gulf Power Company
James O Vick, Gulf Power Company
J. W. Martin, Gulf Power Company
John Dominey, Gulf Power Company
Danny Herrin, Southern Company Services
R. Doug Neeley, EPA Region IV



Phase II NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

Page 1

This submission is: New Revised

Page of

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
See Page 3					

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

0.46

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

0.46

$$\frac{\sum_{i=1}^n (R_{Li} \times HI_i)}{\sum_{i=1}^n HI_i}$$

$$\frac{\sum_{i=1}^n [R_{1i} \times HI_i]}{\sum_{i=1}^n HI_i}$$

Where,

- R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;
- R_{1i} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;
- HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;
- n = Number of units in the averaging plan

Southern Company Averaging Plan Participating Plants
Plant Name (from Step 1)

STEP 3

Mark one of the two options and enter dates.

This plan is effective for calendar year _____ through calendar year _____ unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: 2000, 2001, 2002, 2003 and 2004 unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

- (i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
 - (a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
 - (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
- (iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Charles D. McCrary	
Signature <i>Charles D. McCrary</i>	Date 4-15-99

Southern Company Averaging Plan Participating Plants

Plant Name (from Step 1) as Listed in Step 1.

NO_x Averaging - Page 3

STEP 1
Continue the
identification of
units from Step 1,
page 1, here.

Plant Name	State	ID #	(a)	(b)	(c)
			Emission Limitation	Alt. Contemp. Emission Limitation	Annual Heat Input Limit
Arkwright	GA	1	0.45	0.69	1,875,509
Arkwright	GA	2	0.45	0.70	1,886,089
Arkwright	GA	3	0.40	0.71	2,006,321
Arkwright	GA	4	0.40	0.75	1,932,669
Barry	AL	1	0.40	0.49	10,805,761
Barry	AL	2	0.40	0.49	10,643,159
Barry	AL	3	0.40	0.49	17,148,763
Barry	AL	4	0.40	0.37	25,471,720
Barry	AL	5	0.40	0.45	50,897,853
Bowen	GA	1	0.45	0.42	45,395,755
Bowen	GA	2	0.45	0.43	46,911,826
Bowen	GA	3	0.45	0.43	59,796,338
Bowen	GA	4	0.45	0.43	62,106,898
Branch	GA	1	0.68	0.99	14,906,580
Branch	GA	2	0.50	0.72	16,571,123
Branch	GA	3	0.68	0.84	27,015,768
Branch	GA	4	0.68	0.84	28,967,878
Crist	FL	4	0.45	0.52	3,062,929
Crist	FL	5	0.45	0.60	4,850,348
Crist	FL	6	0.50	0.45	17,603,755
Crist	FL	7	0.50	0.45	32,267,381
Daniel	MS	1	0.45	0.28	28,010,957
Daniel	MS	2	0.45	0.26	29,025,313
Gadsden	AL	1	0.45	0.65	2,473,380
Gadsden	AL	2	0.45	0.68	2,333,659
Gaston	AL	1	0.50	0.43	15,666,430
Gaston	AL	2	0.50	0.43	15,642,121
Gaston	AL	3	0.50	0.43	16,016,613
Gaston	AL	4	0.50	0.43	15,780,983
Gaston	AL	5	0.45	0.42	43,137,116
Gorgas	AL	6	0.46	0.86	5,058,595
Gorgas	AL	7	0.46	0.86	5,052,447
Gorgas	AL	8	0.40	0.49	11,173,785
Gorgas	AL	9	0.40	0.30	10,939,664
Gorgas	AL	10	0.40	0.76	46,251,622

Southern Company Averaging Plan Participating Plants
 Plant Name (from Step 1) as Listed in Step 1.

STEP 1
 Continue the
 identification of
 units from Step 1,
 page 1, here.

Plant Name	State	ID #	(a) Emission Limitation	(b) Alt. Contemp. Emission	(c) Annual Heat Input Limit
Greene Co	AL	1	0.68	0.98	19,524,675
Greene Co	AL	2	0.46	0.43	18,839,670
Hammond	GA	1	0.50	0.83	4,539,663
Hammond	GA	2	0.50	0.83	6,333,156
Hammond	GA	3	0.50	0.83	6,439,818
Hammond	GA	4	0.50	0.45	26,126,591
Kraft	GA	1	0.45	0.58	2,974,849
Kraft	GA	2	0.45	0.58	2,238,703
Kraft	GA	3	0.45	0.58	3,971,009
L. Smith	FL	1	0.40	0.62	9,199,644
L. Smith	FL	2	0.40	0.44	10,154,723
McDonough	GA	1	0.45	0.42	18,934,013
McDonough	GA	2	0.45	0.42	17,338,565
McIntosh	GA	1	0.50	0.86	8,568,975
Miller	AL	1	0.46	0.29	53,814,591
Miller	AL	2	0.46	0.29	52,772,559
Miller	AL	3	0.46	0.29	49,093,163
Miller	AL	4	0.46	0.29	55,722,252
Mitchell	GA	3	0.45	0.62	5,322,072
Scherer	GA	1	0.40	0.50	52,573,864
Scherer	GA	2	0.40	0.50	55,563,600
Scherer	GA	3	0.45	0.29	37,912,770
Scherer	GA	4	0.40	0.30	70,093,731
Scholz	FL	1	0.50	0.68	1,855,434
Scholz	FL	2	0.50	0.77	1,864,795
Wansley	GA	1	0.45	0.41	53,141,279
Wansley	GA	2	0.45	0.42	49,741,786
Watson	MS	4	0.50	0.50	17,100,575
Watson	MS	5	0.50	0.65	33,455,317
Yates	GA	1	0.45	0.48	3,853,527
Yates	GA	2	0.45	0.48	4,687,321
Yates	GA	3	0.45	0.48	3,981,916
Yates	GA	4	0.45	0.40	7,087,706
Yates	GA	5	0.45	0.40	5,186,897
Yates	GA	6	0.45	0.33	13,373,298
Yates	GA	7	0.45	0.30	14,601,869



DATE: April 17, 1999

FROM: Ken Boyd *KWB*

RE: System NO_x Averaging Plan

TO: Anthony Marino, Phil Glisson, **Dwain Waters**, Pat Hedden, Lamar Keller

I have enclosed an original of the revised system NO_x Averaging Plan signed by Mr. McCrary. (Two copies for Alabama Power.) This revision adds Plant Arkwright Units 1 through 4 to the averaging plan. These units were scheduled to burn gas when the original plan was signed and submitted but now are likely to burn primarily coal.

Because the averaging plan is large and Plant Arkwright is small, no changes to the NO_x rates were necessary for other units in the plan. Therefore, according to Mr. Bob Miller, EPA Headquarters, Phase II NO_x Group, all other plants with issued permits will require only an administrative permit amendment to replace the current averaging plan pages with the plan that includes Arkwright. Guidance is likely to be developed and issued by about the end of this month to address this type plan change.

At this point, according to Mr. Miller, EPA has no problem with us providing the revised plan to the states. Copies of your submittals should be provided to Region 4. We plan to send a copy to Mr. Miller.

If you have questions or comments please let me know.

Enclosure

cc: Danny Herrin

Charles D. McCrary
Chief Production Officer
President -
Southern Company Generation

600 North 18th Street / 15N-8170
Post Office Box 2641
Birmingham, Alabama 35291

Tel 205.257.2243
Fax 205.257.5019

November 23, 1999

RECEIVED

NOV 24 1999

BUREAU OF AIR REGULATION



Mr. Clair H. Fancy, P.E.
Chief, Bureau of Air Regulation
Air Resources Management Division
Florida Department of Environmental Protection
Mail Station 5500
2600 Blair Stone Road
Tallahassee, Florida 32399 - 2400

Dear Mr. Fancy:

This letter is provided in accordance with the requirements outlined in Section IV Acid Rain Part and Appendix CP.-1 of the Crist Electric Generating Plant, Scholz Electric Generating Plant, and the Lansing Smith Electric Generating Plant Title V permits. On December 8, 1997, Southern Company submitted a Phase II NOx Averaging Plan to the States of Alabama, Florida, Georgia, and Mississippi and to Jefferson County, Alabama, with copies to the U.S. Environmental Protection Agency at Region IV and the Acid Rain Division. The plan was updated on April 15, 1999, from 71 to 75 units operated by Southern Company across the four state region. Following several comments from EPA Region IV and a few administrative changes, the plan was signed and resubmitted on July 23, 1999.

The initial Southern Company NOx averaging plan has been approved by the Alabama Department of Environmental Management, Georgia Environmental Protection Division, Mississippi Department of Environmental Quality, and the Jefferson County, Alabama, Department of Health. In conjunction with final approval of the averaging plan, the agencies have or are in the process of updating permits for these units per the November 18, 1999, letter to you from Mr. R. Douglas Neeley, U.S. Environmental Protection Agency.

This certification is based on information and belief formed after reasonable inquiry. To the best of my knowledge, the statements and information in this document are true, accurate, and complete as required by 62-213.420 (4) F.A.C.

If you have questions about the plan or the status of approval, please contact Mr. Danny Herrin, Manager, Clean Air Compliance, Southern Company Generation, at (205) 257-6468.

Sincerely,

cc: Ronald W. Gore, Alabama Department of Environmental Management
Ronald C. Methier, Georgia Environmental Protection Division
Dwight Wylie, Mississippi Department of Environmental Quality
James I. Carroll, Jefferson County Department of Health
R. Doug Neeley, U.S. Environmental Protection Agency
Robert Miller, U.S. Environmental Protection Agency

One Energy Place
Pensacola, Florida 32520

850.444.6111



July 27, 1998

Mr. Scott M. Sheplak, P.E.
Department of Environmental Protection
111 South Magnolia Drive, Suite 4
Tallahassee, Florida 32301

Dear Mr. Sheplak:

RE: Plant Crist Title IV Phase II NOx Compliance Plan
ORIS Code: 641
FDEP Draft Permit No: 0330045-001-AV

Attached, please find Gulf Power's revised Phase II NOx Compliance Plan and associated NOx Averaging Plan for the Crist Electric Generating Plant (ORIS Code 641). Please note that the new original signed copy of the averaging plan is attached to this correspondence and copies are attached to other Gulf Power submissions, i.e. (Scholz and Lansing Smith). ***This revised submission changes the System NOx Averaging Plan to two decimal points instead of four as originally submitted on December 18, 1997.***

The NOx compliance plan for this unit utilizes a NOx averaging plan that includes other affected units in the Southern Company. Title V permitting authorities with jurisdiction over the units in the plan include the States of Alabama, Georgia and Mississippi, as well as the Jefferson County Department of Health in Alabama. Our sister operating companies within the Southern Company are providing their respective state environmental regulatory agencies a copy of this NOx averaging plan with their Phase II NOx permit compliance plans, thereby fulfilling the requirement of the General Instructions (Item 4a) to provide a copy of the plan to other Title V permitting authorities with jurisdiction over any units in the plan.

If you have any questions or need further information regarding the Crist Title IV Phase II Compliance and Averaging Plan, please call me at (850) 444.6527.

Sincerely,

A handwritten signature in black ink that reads "G. Dwain Waters, Q.E.P." in a cursive style.

G. Dwain Waters, Q.E.P.
Air Quality Programs Coordinator

Page 2

Mr. Scott Sheplack

July 27, 1998

cc: Robert G. Moore, Gulf Power Company
James O Vick, Gulf Power Company
J. W. Martin, Gulf Power Company
John Dominey, Gulf Power Company
Danny Herrin, Southern Company Services
Brian L. Beals EPA Region IV

Florida Department of Environmental Protection

Phase II NO_x Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9

This submission is: New Revised Page of

STEP 1 Indicate plant name, state, and ORIS code from NADB, if applicable.	CRIST ELECTRIC GENERATING PLANT Plant Name	FL State	641 ORIS Code
STEP 2	Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.		

ID#	ID#	ID#	ID#	ID#	ID#
4	5	6	7		
Type	Type	Type	Type	Type	Type
T	T	DBW	DBW		

(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for <u>Phase I</u> dry bottom wall-fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for <u>Phase I</u> tangentially fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for <u>Phase II</u> dry bottom wall-fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for <u>Phase II</u> tangentially fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(j) NO _x Averaging Plan (include NO _x Averaging form)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRIST ELECTRIC GENERATING PLANT Plant Name (from Step 1)

STEP 2, cont'd.

ID#	ID#	ID#	ID#	ID#	ID#
Type	Type	Type	Type	Type	Type

(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging Form)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17 (a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(p) Repowering extension plan approved or under review

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

STEP 3

Read the standard requirements and certification, enter the name of the designated representative, sign and date.

Standard Requirements

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Part of its Title V permit.

Special Provisions for Early Election Units

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO_x as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).

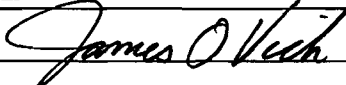
Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.

Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7.

STEP 3, cont'd.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name	James O. Vick	
Signature		Date 7/27/98



Phase II NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

This submission is: New Revised

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
See Page 3					

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

0.46

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

0.46

$$\frac{\sum_{i=1}^n (R_{Li} \times HI_i)}{\sum_{i=1}^n HI_i}$$

$$\frac{\sum_{i=1}^n [R_{1i} \times HI_i]}{\sum_{i=1}^n HI_i}$$

Where,

- R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;
- R_i = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;
- HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;
- n = Number of units in the averaging plan

STEP 3

Mark one of the two options and enter dates.

This plan is effective for calendar year _____ through calendar year _____ unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: 2000, 2001, 2002, 2003 and 2004 unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

- (i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
 - (a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
 - (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
- (iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Charles D. McCrary	
Signature <i>Charles D. McCrary</i>	Date 7/20/98

Southern Company Averaging Plan Participating Plants

Plant Name (from Step 1)

as Listed in Step 1.

NO_x Averaging - Page 3

STEP 1
Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID #	(a)	(b)	(c)
			Emission Limitation	Alt. Contemp. Emission Limitation	Annual Heat Input Limit
Barry	AL	1	0.40	0.49	10,805,761
Barry	AL	2	0.40	0.49	10,643,159
Barry	AL	3	0.40	0.49	17,148,763
Barry	AL	4	0.40	0.37	25,471,720
Barry	AL	5	0.40	0.45	50,897,853
Bowen	GA	1	0.45	0.42	45,395,755
Bowen	GA	2	0.45	0.43	46,911,826
Bowen	GA	3	0.45	0.43	59,796,338
Bowen	GA	4	0.45	0.43	62,106,898
Branch	GA	1	0.68	0.99	14,906,580
Branch	GA	2	0.50	0.72	16,571,123
Branch	GA	3	0.68	0.84	27,015,768
Branch	GA	4	0.68	0.84	28,967,878
Crist	FL	4	0.45	0.52	3,062,929
Crist	FL	5	0.45	0.60	4,850,348
Crist	FL	6	0.50	0.45	17,603,755
Crist	FL	7	0.50	0.45	32,267,381
Daniel	MS	1	0.45	0.28	28,010,957
Daniel	MS	2	0.45	0.26	29,025,313
Gadsden	AL	1	0.45	0.65	2,473,380
Gadsden	AL	2	0.45	0.68	2,333,659
Gaston	AL	1	0.50	0.43	15,666,430
Gaston	AL	2	0.50	0.43	15,642,121
Gaston	AL	3	0.50	0.43	16,016,613
Gaston	AL	4	0.50	0.43	15,780,983
Gaston	AL	5	0.45	0.42	43,137,116
Gorgas	AL	6	0.46	0.86	5,058,595
Gorgas	AL	7	0.46	0.86	5,052,447
Gorgas	AL	8	0.40	0.49	11,173,785
Gorgas	AL	9	0.40	0.30	10,939,664
Gorgas	AL	10	0.40	0.76	46,251,622
Greene Co	AL	1	0.68	0.98	19,524,675
Greene Co	AL	2	0.46	0.43	18,839,670

Southern Company Averaging Plan Participating Plants

Plant Name (from Step 1)

as Listed in Step 1.

NO_x Averaging - Page 4

STEP 1
Continue the
identification of
units from Step 1,
page 1, here.

Plant Name	State	ID #	(a)	(b)	(c)
			Emission Limitation	Alt. Contemp. Emission Limitation	Annual Heat Input Limit
Hammond	GA	1	0.50	0.83	4,539,663
Hammond	GA	2	0.50	0.83	6,333,156
Hammond	GA	3	0.50	0.83	6,439,818
Hammond	GA	4	0.50	0.45	26,126,591
Kraft	GA	1	0.45	0.58	2,974,849
Kraft	GA	2	0.45	0.58	2,238,703
Kraft	GA	3	0.45	0.58	3,971,009
L. Smith	FL	1	0.40	0.62	9,199,644
L. Smith	FL	2	0.40	0.44	10,154,723
McDonough	GA	1	0.45	0.42	18,934,013
McDonough	GA	2	0.45	0.42	17,338,565
McIntosh	GA	1	0.50	0.86	8,568,975
Miller	AL	1	0.46	0.29	53,814,591
Miller	AL	2	0.46	0.29	52,772,559
Miller	AL	3	0.46	0.29	49,093,163
Miller	AL	4	0.46	0.29	55,722,252
Mitchell	GA	3	0.45	0.62	5,322,072
Scherer	GA	1	0.40	0.50	52,573,864
Scherer	GA	2	0.40	0.50	55,563,600
Scherer	GA	3	0.45	0.29	37,912,770
Scherer	GA	4	0.40	0.30	70,093,731
Scholz	FL	1	0.50	0.68	1,855,434
Scholz	FL	2	0.50	0.77	1,864,795
Wansley	GA	1	0.45	0.41	53,141,279
Wansley	GA	2	0.45	0.42	49,741,786
Watson	MS	4	0.50	0.50	17,100,575
Watson	MS	5	0.50	0.65	33,455,317
Yates	GA	1	0.45	0.48	3,853,527
Yates	GA	2	0.45	0.48	4,687,321
Yates	GA	3	0.45	0.48	3,981,916
Yates	GA	4	0.45	0.40	7,087,706
Yates	GA	5	0.45	0.40	5,186,897
Yates	GA	6	0.45	0.33	13,373,298
Yates	GA	7	0.45	0.30	14,601,869

One Energy Place
Pensacola, Florida 32520

Tel 850.444.6000



December 18, 1997

Mr. Scott M. Sheplak, P.E.
Department of Environmental Protection
111 South Magnolia Drive, Suite 4
Tallahassee, Florida 32301

Dear Mr. Sheplak:

RE: Plant Crist Title IV Phase II NOx Compliance Plan
ORIS Code: 641
FDEP Draft Permit No: 0330045-001-AV

Attached, please find Gulf Power's Phase II NOx Compliance Plan and associated NOx Averaging Plan for the Crist Electric Generating Plant (ORIS Code 641). Please note that the original signed copy of the averaging plan is attached to this correspondence and copies are attached to other affected Gulf Power Florida submissions, i.e., (Scholz and Lansing Smith).

The NOx compliance plan for this unit utilizes a NOx averaging plan that includes other affected units in the Southern Company. Title V permitting authorities with jurisdiction over the units in the plan include the States of Alabama, Georgia and Mississippi, as well as the Jefferson County Department of Health in Alabama. Our sister operating companies within the Southern Company are providing their respective state environmental regulatory agencies a copy of this NOx averaging plan with their Phase II NOx permit compliance plans, thereby fulfilling the requirement of the General Instructions (Item 4a) to provide a copy of the plan to other Title V permitting authorities with jurisdiction over any units in the plan.

If you have any questions or need further information regarding the Crist Title IV Phase II Compliance and Averaging Plan, please call me at (850) 444.6527.

Sincerely,

A handwritten signature in black ink, appearing to read "G. Dwain Waters".

G. Dwain Waters, Q.E.P.
Air Quality Programs Coordinator

RECEIVED

DEC 22 1997

**BUREAU OF
AIR REGULATION**

Page 2

Mr. Scott Sheplack

December 18, 1997

cc: Robert G. Moore., Gulf Power Company
James O Vick, Gulf Power Company
J. W. Martin, Gulf Power Company
John Dominey, Gulf Power Company
Danny Herrin, Southern Company Services
Brian L. Beals EPA Region IV

Florida Department of Environmental Protection

Phase II NO_x Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9

This submission is: New Revised

Page of

STEP 1 Indicate plant name, state, and ORIS code from NADB, if applicable.	CRIST ELECTRIC GENERATING PLANT Plant Name	FL State	641 ORIS Code
STEP 2	Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.		

ID#	ID#	ID#	ID#	ID#	ID#
4	5	6	7		
Type	Type	Type	Type	Type	Type
T	T	DBW	DBW		

(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for <u>Phase I</u> dry bottom wall-fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for <u>Phase I</u> tangentially fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for <u>Phase II</u> dry bottom wall-fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for <u>Phase II</u> tangentially fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(j) NO _x Averaging Plan (include NO _x Averaging form)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRIST ELECTRIC GENERATING PLANT Plant Name (from Step 1)

STEP 2, cont'd.

ID#	ID#	ID#	ID#	ID#	ID#
Type	Type	Type	Type	Type	Type

(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging Form)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17 (a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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(p) Repowering extension plan approved or under review

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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STEP 3

Read the standard requirements and certification, enter the name of the designated representative, sign and date.

Standard Requirements

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Part of its Title V permit.

Special Provisions for Early Election Units

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO_x as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).

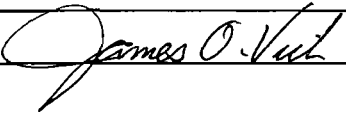
Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.

Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7.

STEP 3, cont'd.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name	JAMES O. VICK	
Signature		Date 12/18/97



Phase II NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

Page 1

This submission is: New Revised

Page of

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
See Page 3					

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

0.4604

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

0.4605

$$\frac{\sum_{i=1}^n (R_{Li} \times HI_i)}{\sum_{i=1}^n HI_i}$$

$$\frac{\sum_{i=1}^n [R_{i1} \times HI_i]}{\sum_{i=1}^n HI_i}$$

Where,

- R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;
- R_{i1} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;
- HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;
- n = Number of units in the averaging plan

STEP 3

Mark one of the two options and enter dates.

This plan is effective for calendar year _____ through calendar year _____ unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: 2000, 2001, 2002, 2003 and 2004 unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

- (i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
 - (a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
 - (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
- (iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

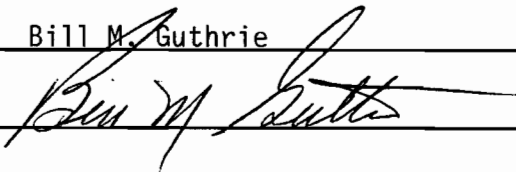
The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name	Bill M. Guthrie	
Signature		Date 12/8/97

Southern Company Averaging Plan Participating Plants

Plant Name (from Step 1)

as Listed in Step 1.

NO_x Averaging - Page 3

STEP 1
Continue the
identification of
units from Step 1,
page 1, here.

Plant Name	State	ID #	(a)	(b)	(c)
			Emission Limitation	Alt. Contemp. Emission Limitation	Annual Heat Input Limit
Barry	AL	1	0.40	0.492	10,805,761
Barry	AL	2	0.40	0.492	10,643,159
Barry	AL	3	0.40	0.492	17,148,763
Barry	AL	4	0.40	0.374	25,471,720
Barry	AL	5	0.40	0.448	50,897,853
Bowen	GA	1	0.45	0.421	45,395,755
Bowen	GA	2	0.45	0.434	46,911,826
Bowen	GA	3	0.45	0.430	59,796,338
Bowen	GA	4	0.45	0.430	62,106,898
Branch	GA	1	0.68	0.988	14,906,580
Branch	GA	2	0.50	0.717	16,571,123
Branch	GA	3	0.68	0.842	27,015,768
Branch	GA	4	0.68	0.842	28,967,878
Crist	FL	4	0.45	0.520	3,062,929
Crist	FL	5	0.45	0.599	4,850,348
Crist	FL	6	0.50	0.455	17,603,755
Crist	FL	7	0.50	0.448	32,267,381
Daniel	MS	1	0.45	0.281	28,010,957
Daniel	MS	2	0.45	0.265	29,025,313
Gadsden	AL	1	0.45	0.648	2,473,380
Gadsden	AL	2	0.45	0.684	2,333,659
Gaston	AL	1	0.50	0.433	15,666,430
Gaston	AL	2	0.50	0.433	15,642,121
Gaston	AL	3	0.50	0.427	16,016,613
Gaston	AL	4	0.50	0.427	15,780,983
Gaston	AL	5	0.45	0.422	43,137,116
Gorgas	AL	6	0.46	0.864	5,058,595
Gorgas	AL	7	0.46	0.864	5,052,447
Gorgas	AL	8	0.40	0.486	11,173,785
Gorgas	AL	9	0.40	0.303	10,939,664
Gorgas	AL	10	0.40	0.763	46,251,622
Greene Co	AL	1	0.68	0.977	19,524,675
Greene Co	AL	2	0.46	0.434	18,839,670

Southern Company Averaging Plan Participating Plants

Plant Name (from Step 1)

as Listed in Step 1.

NO_x Averaging - Page 4

STEP 1
Continue the
identification of
units from Step 1,
page 1, here.

Plant Name	State	ID #	(a)	(b)	(c)
			Emission Limitation	Alt. Contemp. Emission Limitation	Annual Heat Input Limit
Hammond	GA	1	0.50	0.827	4,539,663
Hammond	GA	2	0.50	0.827	6,333,156
Hammond	GA	3	0.50	0.827	6,439,818
Hammond	GA	4	0.50	0.454	26,126,591
Kraft	GA	1	0.45	0.580	2,974,849
Kraft	GA	2	0.45	0.580	2,238,703
Kraft	GA	3	0.45	0.580	3,971,009
L. Smith	FL	1	0.40	0.618	9,199,644
L. Smith	FL	2	0.40	0.436	10,154,723
McDonough	GA	1	0.45	0.420	18,934,013
McDonough	GA	2	0.45	0.420	17,338,565
McIntosh	GA	1	0.50	0.858	8,568,975
Miller	AL	1	0.46	0.293	53,814,591
Miller	AL	2	0.46	0.293	52,772,559
Miller	AL	3	0.46	0.293	49,093,163
Miller	AL	4	0.46	0.293	55,722,252
Mitchell	GA	3	0.45	0.615	5,322,072
Scherer	GA	1	0.40	0.500	52,573,864
Scherer	GA	2	0.40	0.500	55,563,600
Scherer	GA	3	0.45	0.295	37,912,770
Scherer	GA	4	0.40	0.300	70,093,731
Scholz	FL	1	0.50	0.682	1,855,434
Scholz	FL	2	0.50	0.774	1,864,795
Wansley	GA	1	0.45	0.413	53,141,279
Wansley	GA	2	0.45	0.421	49,741,786
Watson	MS	4	0.50	0.500	17,100,575
Watson	MS	5	0.50	0.647	33,455,317
Yates	GA	1	0.45	0.481	3,853,527
Yates	GA	2	0.45	0.481	4,687,321
Yates	GA	3	0.45	0.481	3,981,916
Yates	GA	4	0.45	0.396	7,087,706
Yates	GA	5	0.45	0.396	5,186,897
Yates	GA	6	0.45	0.328	13,373,298
Yates	GA	7	0.45	0.303	14,601,869