

**STATE OF FLORIDA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**NOTICE OF FINAL PERMIT**

In the Matter of an  
Application for Permit by:

Gulf Power Company  
One Energy Place  
Pensacola, Florida 32520

Air Permit No. 0330045-005-AC  
Crist Electric Generating Plant  
Unit 7 ESP/SCR Project

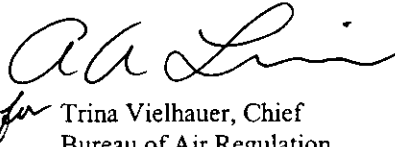
*Authorized Representative:*

Mr. Gene L. Ussery, Jr., Vice President of Power Generation

Enclosed is Final Air Permit No. 0330045-005-AC, which authorizes the construction of a new electrostatic precipitator and the installation of a new selective catalytic reduction system for Unit 7 at the existing Crist Electric Generating Station, which is located on Governors Bayou off 10 Mile Road in Pensacola, Escambia County, Florida. As noted in the Final Determination (attached), only minor changes were made. This permit is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty (30) days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

  
for Trina Vielhauer, Chief  
Bureau of Air Regulation

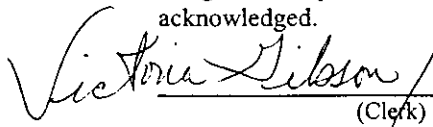
**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final permit) was sent by certified mail (\*) and copies were mailed by U.S. Mail before the close of business on 3/3/03 to the persons listed:

Mr. Gene L. Ussery, Jr., Gulf Power Co.\*  
Mr. G. Duane Waters, Gulf Power Co.  
Mr. Gregory N. Terry, Gulf Power Co.  
Ms. Sandra Veazey, NWD  
Mr. Gregg Worley, EPA Region 4  
Mr. John Bunyak, NPS

Clerk Stamp

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

  
Victoria Gibson / March 3, 2003  
(Clerk) (Date)

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee <i>R. Beach</i>
1. Article Addressed to:  Mr. Gene L. Ussery, Jr. Vice President of Power Generation Gulf Power Company One Energy Place Pensacola, FL 32520-0328	B. Received by (Printed Name) <i>R. BEACH</i> C. Date of Delivery <i>3/5/03</i>
7001 0320 0001 3692 6853	D. Is delivery address different from item 1? <input checked="" type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No  3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.  4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes

PS Form 3811, August 2001      Domestic Return Receipt      102595-02-M-1540

U.S. Postal Service <b>CERTIFIED MAIL RECEIPT</b> (Domestic Mail Only; No Insurance Coverage Provided)												
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Street, Apt. No., or P.O. No.	One Energy Place											
City, State, ZIP+4	Pensacola, FL 32520-0328											
PS Form 3800, January 2001      See Reverse for Instructions												

## FINAL DETERMINATION

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### PERMITTEE

Gulf Power Company  
One Energy Place  
Pensacola, Florida 32520

### PERMITTING AUTHORITY

Florida Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation  
New Source Review Section  
2600 Blair Stone Road, MS #5505  
Tallahassee, Florida, 32399-2400

### PROJECT

Crist Electric Generating Plant  
Unit 7 - ESP/SCR Project  
Air Permit No. 0330045-005-AC

This permit authorizes the construction of a new electrostatic precipitator and the installation of a new selective catalytic reduction system for Unit 7 at the existing Crist Electric Generating Station, which is located on Governors Bayou off 10 Mile Road in Pensacola, Escambia County, Florida.

### NOTICE, PUBLICATION, AND COMMENTS

The Department distributed an "Intent to Issue Permit" package on February 14, 2003. The applicant published the "Public Notice of Intent to Issue" in the Pensacola News Journal on February 16, 2003. The Department received the proof of publication on February 25, 2003. No comments on the draft permit were received.

### CONCLUSION

Only minor typographical errors were corrected. The final action of the Department is to issue the permit with the changes described above.



# Department of Environmental Protection

Jeb Bush  
Governor

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

David B. Struhs  
Secretary

## PERMITTEE

Gulf Power Company  
One Energy Place  
Pensacola, FL 32520-0328

*Authorized Representative:*

Gene L. Ussery, Jr., V.P. of Power Generation

Crist Electric Generating Plant  
Unit 7 ESP/SCR Project  
Facility ID No. 0330045  
SIC No. 4911  
Air Permit No. 0330045-005-AC  
Permit Expires: December 1, 2005

## PROJECT AND LOCATION


This permit authorizes the construction of a new electrostatic precipitator and the installation of a new selective catalytic reduction system for Unit 7 at the existing Crist Electric Generating Station, which is located on Governors Bayou off 10 Mile Road in Pensacola, Escambia County, Florida. The map coordinates are: Zone 16; 478.50 km East; and 3381.30 km North.

## STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of Chapter 403, F.S., and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C. The permittee is authorized to install the proposed equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department. This air construction permit supplements all other valid air construction and operation permits.

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- Section 1. General Information
- Section 2. Administrative Requirements
- Section 3. Emissions Units Specific Conditions
- Section 4. Appendices

  
Howard L. Rhodes, Director  
Division of Air Resources Management

3/3/03  
(Date)

## SECTION 1. GENERAL INFORMATION

### FACILITY AND PROJECT DESCRIPTION

The existing plant consists of seven fossil fuel fired steam generators and two fly ash silos. Natural gas is the primary fuel for Units 1, 2 and 3. Pulverized coal is the primary fuel for Units 4, 5, 6 and 7. Fuel oil is used as supplemental fuel in all seven of the units. The following units are affected by this air construction permit.

ID	Emission Unit Description
001	Boiler No. 1 (Phase II Acid Rain Unit)
002	Boiler No. 2 (Phase II Acid Rain Unit)
003	Boiler No. 3 (Phase II Acid Rain Unit)
004	Boiler No. 4 (Phase I and II Acid Rain Unit)
005	Boiler No. 5 (Phase I and II Acid Rain Unit)
006	Boiler No. 6 (Phase I Acid Rain Unit)
007	Boiler No. 7 (Phase I Acid Rain Unit)

### REGULATORY CLASSIFICATION

Title III: The existing facility is identified as a major source of hazardous air pollutants (HAP).

Title IV: The existing facility operates units subject to the acid rain provisions of the Clean Air Act.

Title V: The existing facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.

PSD: The existing facility is a PSD-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

### RELEVANT DOCUMENTS

The permit application and additional information received to make it complete are not a part of this permit; however, the information is specifically related to this permitting action and is on file with the Department.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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1. Permitting Authority: All documents related to applications for permits to construct, modify, or operate emissions units at this facility shall be submitted to the Bureau of Air Regulation of the Florida Department of Environmental Protection (DEP) at 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400. Copies of all permit applications shall also be sent to the Compliance Authority.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Department's Northwest District Office at 160 Governmental Center, Pensacola, Florida 32501-5794.
3. Appendices: The following Appendices are attached as part of this permit: Appendix CF (Citation Format); Appendix GC (General Conditions); and Appendix SC (Standard Conditions).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of Chapter 403, F.S. and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-4, 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Construction Approval: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Rule 62-210.200(76), F.A.C. defines *construction* as, "The act of performing on-site fabrication, erection, installation or modification of an emissions unit or facility of a permanent nature, including installation of foundations or building supports; laying of underground pipe work or electrical conduit; and fabrication or installation of permanent storage structures, component parts of an emissions unit or facility, associated support equipment, or utility connections. Land clearing and other site preparation activities are not a part of the construction activities." Such permits shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Title V Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V operation permit is required for regular operation of the permitted emissions units. The permittee shall apply for a Title V operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

## SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

### A. EU 007 – Boiler No. 7

This section of the permit addresses the following existing emissions unit.

#### Emissions Unit No. 007

*Description:* Unit 7 is a Foster Wheeler front and rear wall fired, dry bottom boiler that began commercial operation on August 1, 1973.

*Fuels:* coal, natural gas, new No. 2 fuel oil and/or on-specification used oil

*Capacity:* 6406 MMBtu/hour when firing pulverized coal and/or natural gas

*PM Controls:* Cold side electrostatic precipitator

*NOx Controls:* Low NOx burners and selective catalytic reduction

*Continuous Monitors:* CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>2</sub>, opacity, stack gas flow, and ammonia injection rate

*Stack Parameters:* Units 6 and 7 share a common stack that is 450 feet tall with a diameter of 23.2 feet. The volumetric flow rate of Unit 7 at permitted at capacity is approximately 2,463,000 acfm.

*{Permitting Notes: Based on the current Title V air operation permit, Unit 7: is regulated under Rule 62-296.405, F.A.C. (Fossil Fuel Fired Steam Generators > 250 MMBtu/Hour Heat Input); predates the requirements of Rule 62-212.400, F.A.C. (PSD Preconstruction Review); and is regulated under Phase I of the federal Acid Rain Program (40 CFR 75).}*

*{Permitting Note: On August 28, 2002, Gulf Power Company and the Florida Department of Environmental Protection entered into an agreement titled, "Agreement for the Purpose of Ensuring Compliance with the Ozone Ambient Air Quality Standards" (Agreement). The "Agreement" is the basis for many of the following permit conditions.}*

#### PREVIOUS APPLICABLE REQUIREMENTS

1. Other Permits: The conditions of this permit supplement all previously issued air construction and operation permits for this emissions unit. Unless otherwise specified, these conditions are in addition to all other applicable permit conditions and regulations. [Rule 62-4.070, F.A.C.]

#### EQUIPMENT AND CONSTRUCTION

2. Electrostatic Precipitator (ESP): To control emissions of particulate matter, the permittee shall construct, tune, operate, and maintain a new cold-side ESP for Unit 7 to replace the existing equipment as described in the application, approved drawings, plans, and other documents on file with the Department.

*{Permitting Note: Alstom Power Inc. designed the new cold-side ESP, which will generally consist of two gas tight chambers. Each chamber will have three cells with five electrical fields per cell. There will be at least 30 total electrical fields (transformer-rectifier sets) with each field having approximate overall dimensions of 29 feet wide by 12 feet deep with a height of about 49 feet. The collecting plates will consist of 16-gage steel and have a spacing of approximately 15.75 inches. The discharge electrodes will be rigid. Each of the 30 transformer-rectifier sets will be controlled by a microprocessor-based controller with field energizing optimization and high-speed field bus communication. The preliminary design control efficiency is 99.64%.*

*A tumbling hammer rapping system will be used to remove captured fly ash from collecting plates. The maximum rapping density will be about 1163 square feet of collecting electrode per rapper. The preliminary design uses the existing control system to adjust the cleaning cycle and frequency to minimize opacity spikes due to re-entrainment. Approximately sixty hoppers (two per field) will hold the collected ash. The new ash collection hoppers will be tied in to the existing dry fly ash removal system. The ESP will also be equipped with a data management system for remote control and communications with the high*

## SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

### A. EU 007 – Boiler No. 7

voltage power supplies and rapper control systems.

*This information is based on the preliminary design and is subject to change. The permittee shall update this information as necessary during the process of final design and installation.* [Design; Paragraph 1 of the Agreement]

3. **Selective Catalytic Reduction (SCR) System:** The permittee shall construct, tune, operate, and maintain a new SCR system for Unit 7 to reduce emissions of nitrogen oxides (NOx) as described in the application, approved drawings, plans, and other documents on file with the Department. The SCR system shall be designed to achieve no less than an 85% reduction in NOx emissions as measured across the SCR unit inlet and outlet. The designed target ammonia slip level is 5 ppmv based on a 24-hour average. The storage of ammonia shall comply with all applicable requirements of the Chemical Accident Prevention Provisions in 40 CFR 68.

*{Permitting Note: Southern Company Services Inc. designed the new SCR system, which will generally consist of the following:*

- **Catalyst Structure:** *Arranged in four layers, the catalyst is a plate-type structure fabricated by applying ceramic catalyst material to a perforated stainless steel mesh grid plate. The active catalyst component is vanadium pentoxide. The system has an operational temperature range between 600° to 800° F (optimum temperature > 680° F). The initial configuration will have a catalyst volume of approximately 26,000 cubic feet in 2½ layers. As the catalyst gradually deactivates through use, the remaining layers will be filled and old layers replaced. With all four potential layers in place, the catalyst volume is approximately 41,600 cubic feet.*
- **Ammonia Injection System:** *Anhydrous ammonia will be delivered by truck or rail and stored on site in two 20,500 gallons tanks. Ammonia is distributed into the SCR inlet duct through the ammonia injection grid (AIG), which is divided into about two dozen zones. Each zone is equipped with a flow indicator and manual control valve for tuning the AIG to match the inlet NOx profile. A static mixer installed upstream of the AIG creates flow resistance, flattens this profile, and makes gas flow uniform. A second static mixer is installed downstream of the AIG. The elements of this mixer are precisely oriented with the AIG injection points to impart a swirl to the diluted ammonia and promote good mixing with the flue gas. A manual gas sampling grid (GSG) is installed downstream of the last catalyst layer, which allows a high-resolution traverse of the flue gas stream. Gas composition data collected from the GSG is used to precisely adjust and tune the AIG. The preliminary design is based on a 0.95 molar ratio of ammonia-to-NOx.*
- **Ammonia Control System:** *The ammonia control system consists of a control loop with a cascaded, feed-forward control scheme. Process monitors will provide NOx emission rate data collected at the inlet to and the outlet from the SCR system. The ammonia injection rate is set based on a variety of input data including the measured NOx rates at the SCR inlet/outlet, the outlet NOx set point, the heat input to the boiler, the actual NOx rate measured by the stack monitor, and a scaling factor based on the molecular weights of ammonia and NOx. The system is capable of continually adjusting flow control valves to fine-tune the ammonia injection rate based on changing gas stream conditions.*
- **SCR Bypass:** *The SCR design incorporates dampers and ductwork to provide the capability of bypassing the SCR system. The bypass is most commonly used to gradually heat or cool the catalyst structure to minimize thermal fatigue during startup and shutdown. During catalyst maintenance and repair, it would also allow access to the SCR reactor without requiring complete shutdown of the Unit 7 boiler.*

*This information is based on the preliminary design and is subject to change. The permittee shall update this information as necessary during the process of final design and installation.* [Design; Paragraph 1 of



## SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

### A. EU 007 – Boiler No. 7

the Agreement; Rule 62-204.800, F.A.C.; 40 CFR 68]

4. Updated Designs: The permittee shall update the Department with final design specifications and any substantial changes made to the final design specifications during the actual construction phase. [Rule 62-4.070(3), F.A.C.]
5. Project Completion: The permittee shall complete construction and commence operation of the new ESP before placing the SCR system in service. By May 1, 2005, the permittee shall complete construction, begin operating, and continue operating the SCR system whenever Unit 7 is online unless otherwise authorized by this permit. [Applicant Request; Design; Paragraph 1 of the Agreement]

#### PERFORMANCE REQUIREMENTS

*{Permitting Note: This permit does not alter any specifications or limitations included in previous permits that define permitted capacities such as heat input rates, fuel consumption, or hours of operation. It does not authorize any additional fuels or such other methods of operation.}*

#### EMISSIONS STANDARDS

*{Permitting Note: Particulate matter emissions continue to be regulated by Rules 62-296.405(1)(b) and 62-210.700(3), F.A.C. in accordance with current Title V Permit Nos. C.7 and C.8.}*

6. Stack Opacity: The flue gas opacity from Unit 7 shall not exceed 20% based on a 6-minute block average, except for one 6-minute block per hour that shall not exceed 27%. Compliance shall be determined by data collected from the certified continuous opacity monitor or EPA Method 9, which is incorporated by reference in Chapter 62-297, F.A.C. This standard is effective on the date of the initial compliance test for particulate matter and thereafter. *{Permitting Note: Stack opacity during soot blowing and load change continues to be regulated by Rule 62-210.700(3), F.A.C. in accordance with current Title V Permit Condition C.6. Excess emissions due to startup, shutdown, and malfunction continue to be regulated by Rule 62-210.700(1), (2), and (4), F.A.C. in accordance with current Title V permit Condition Nos. C.12, C.13, and C.14.}* [Design; Rule 62-4.070(3), F.A.C.]
7. Nitrogen Oxides (Interim): Prior to implementing the required NOx control strategy for Units 4, 5, and 6, the NOx emissions from Unit 7 shall not exceed 0.15 lb/MMBtu of heat input based on a 30-day rolling average when the SCR system is operational with a catalyst temperature of at least 600° F. The permittee shall demonstrate compliance with data collected from the certified CEMS. This standard is effective on the date the CEMS is re-certified in accordance with the acid rain provisions of 40 CFR 75. After the required NOx control strategy is implemented for Units 4, 5, and 6, the plant-wide NOx standard specified in Subsection 3B shall supersede this interim standard. [Design; Rules 62-4.070(3), F.A.C.]

#### SCR BYPASS OPERATION

8. SCR Bypass, Startup/Shutdown: During Unit 7 startup and shutdown, the SCR system may be bypassed in accordance with manufacturer's recommended procedures to allow for controlled catalyst heating and cooling. During startup, the SCR system shall be on line and functioning when the minimum operating temperature of the catalyst is achieved ( $\geq 600^{\circ}$  F). During shutdown, the SCR system may be removed from service when the catalyst temperature drops below 600° F. [Design; Rule 62-210.700, F.A.C.]
9. SCR Bypass, Catalyst Maintenance and Repair: The permittee may bypass the SCR system to perform catalyst maintenance and repair for up to 15 days per year during the non-ozone season. During such allowable bypass periods, the uncontrolled NOx emissions from Unit 7 shall not exceed 0.35 lb/MMBtu based on a 24-hour average. The daily NOx emission rates for these periods may be excluded from the plant-wide 30-day NOx standard specified in Subsection 3B. The permittee shall notify the Compliance Authority in advance of the purpose of the SCR bypass, the expected dates of SCR bypass, and the

## SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

### A. EU 007 – Boiler No. 7

expected duration of SCR bypass. *{Permitting Note: The ozone season is defined as May 1st through September 15th.}* [Rules 62-210.700 and 62-4.070(3), F.A.C.]

#### EMISSIONS PERFORMANCE TESTING

10. Test Notification: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. The notification shall include: the scheduled date, approximate start time, test team, contact name and phone number, description of unit to be tested, and the tests to be performed. [Rule 62-297.310(7)(a)9, F.A.C.]
11. Particulate Matter, Compliance Tests: Within 60 days after completing construction of the ESP and bringing Unit 7 on line, the permittee shall conduct tests to demonstrate compliance with the emissions standards for particulate matter and opacity. Tests for particulate matter shall be conducted in accordance with the methods and procedures currently specified in the Title V air operation permit. Subsequent tests shall be conducted during each federal fiscal year (October 1st to September 30th). The permittee shall demonstrate initial compliance with the opacity standard by submitting the data collected from the certified continuous opacity monitor for each particulate matter test run. [Rule 62-297.310(7), F.A.C.]
12. Nitrogen Oxides, Compliance Tests: Within 60 days after completing construction of the SCR system and bringing Unit 7 on line, the permittee shall conduct tests to demonstrate compliance with the design specification to achieve no less than an 85% reduction in the nitrogen oxide emission rate. The permittee shall concurrently test the SCR inlet and SCR outlet in accordance with EPA Method 7E as adopted by reference in Rule 62-204.800, F.A.C. Data collected during the annual NO<sub>x</sub> RATA testing may be used to represent NO<sub>x</sub> emissions at the SCR outlet. Alternatively, the permittee may submit data collected from the NO<sub>x</sub> rate process monitors at the SCR inlet and SCR outlet, which are part of the ammonia injection system. The data shall be collected for at least three consecutive hours. Subsequent tests shall be conducted during each federal fiscal year (October 1st to September 30th). [Rules 62-4.070(3) and 62-297.310(7), F.A.C.]
13. Ammonia Slip, Performance Tests: Within 60 days after completing construction of the SCR system and bringing Unit 7 on line, the permittee shall conduct tests to determine the ammonia slip rate in accordance with EPA Method CTM-027 or other methods approved by EPA. Subsequent tests shall be conducted during each federal fiscal year. If tests show ammonia slip emissions are greater than the design target level specified in Condition No. 3 of this subsection, the permittee shall take corrective actions such as repair, addition of catalyst, replacement of catalyst, etc. [Rules 62-4.070(3) and 62-297.310(7), F.A.C.]

*{Permitting Note: EPA Methods 1 (Traverse Points), 2 (Velocity and Flow Rate), 3 (Gas Analysis), 4 (Moisture Content), and 19 (Calculating Emission Rates, Use of F-Factors) may also be used to supplement the required test methods.}*

#### CONTINUOUS MONITORING REQUIREMENTS

*{Permitting Note: In accordance with the federal Acid Rain requirements, the following continuous monitors are installed on these units: SO<sub>2</sub>, NO<sub>x</sub>, CO<sub>2</sub> and stack gas flow.}*

14. COMS: The permittee shall install, calibrate, operate and maintain a continuous opacity monitoring system (COMS) to demonstrate compliance with the stack opacity standard. The COMS shall monitor and record data during all periods of Unit 7 operation including startup, shutdown, malfunction or emergency conditions, but not including continuous monitoring system breakdowns, repairs, or calibration checks. *{Permitting Note: The existing COMS required by the Acid Rain program satisfies this requirement.}* [Rule 62-4.070(3), F.A.C.]
15. NO<sub>x</sub> CEMS: To demonstrate compliance with the emissions standards, the permittee shall install,

## SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

### A. EU 007 – Boiler No. 7

calibrate, operate and maintain a continuous emissions monitoring system (CEMS) to continuously monitor and record the emissions of nitrogen oxides and an appropriate diluent gas (carbon dioxide or oxygen). The CEMS shall monitor and record data during all periods of Unit 7 operation including startup, shutdown, malfunction or emergency conditions, but not including continuous monitoring system breakdowns, repairs, calibration checks, or zero and span adjustments. For each calendar quarter, monitor availability shall be 95% or greater. If unable to achieve this level, the permittee shall submit a report identifying the problems in achieving 95% monitor availability and a plan of corrective actions. The permittee shall implement the reported corrective actions within the next calendar quarter. *{Permitting Note: The existing NOx CEMS required by the Acid Rain program satisfies this requirement. Due to the substantial changes being made to the existing monitor as a result of this project, it will be necessary to re-certify the existing CEMS in accordance with the provisions of 40 CFR 75.}* [Rule 62-4.070(3), F.A.C.]

#### RECORDS AND REPORTS

16. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the provisions of Rule 62-297.310(8), F.A.C. For each required test run, the report shall indicate the actual heat input rate (MMBtu/hour), the NOx emission rate (lb/MMBtu) as recorded by the CEMS, and the ammonia injection rate (lb/hour). The report shall also include copies of the continuous monitoring records for opacity and NOx emissions. [Rule 62-297.310(8), F.A.C.]
17. Quarterly Report
- a. *NOx Summary*: For each calendar day during the reporting quarter, the permittee shall report the following information related to the NOx CEMS for Unit 7:
- Hours of operation for Unit 7;
  - Daily average NOx emission rate, lb/MMBtu;
  - 30-day average NOx emission rate, lb/MMBtu; and
  - Whether or not the day included a startup, shutdown, malfunction or bypass of the SCR.
- Identify the “F” factor used for any calculations, the method of determination, and type of fuel combusted. For each day that CEMS data was not obtained for at least 18 hours of Unit 7 operation, provide a justification for not obtaining sufficient data and describe the corrective actions taken to prevent this in the future. Identify any emissions data excluded from the calculation of emission rates due to startup, shutdown, or malfunction.
- b. *Opacity Summary*: For each calendar day during the reporting quarter, the permittee shall report each 6-minute period in excess of the opacity standard.
- c. *Gas Sampling Grid (GSG)*: The permittee shall summarize any tests using the GSG that were conducted during the calendar quarter.

Each quarterly report is due within 30 days of the calendar quarter being reported.

[Rule 62-4.070(3), F.A.C.]

**SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS**

**B. EUs 001 to 007 – Combined Conditions**

This section of the permit addresses the following emissions units.

EU No.	Title V Emissions Unit Description
001	Boiler No. 1 (Phase II Acid Rain Unit)
002	Boiler No. 2 (Phase II Acid Rain Unit)
003	Boiler No. 3 (Phase II Acid Rain Unit)
004	Boiler No. 4 (Phase I and II Acid Rain Unit)
005	Boiler No. 5 (Phase I and II Acid Rain Unit)
006	Boiler No. 6 (Phase I Acid Rain Unit)
007	Boiler No. 7 (Phase I Acid Rain Unit)

*{Permitting Note: August 28, 2002, Gulf Power Company and the Florida Department of Environmental Protection entered into an agreement titles, "Agreement for the Purpose of Ensuring Compliance with the Ozone Ambient Air Quality Standards". This agreement is the basis for the following permit conditions.}*

**REQUIREMENTS OF THE AGREEMENT**

1. Supplemental Conditions: The conditions of this section supplement all other valid air construction and operation permits for these units. These conditions are in addition to all other applicable permit conditions and regulations. [Rule 62-4.070(3), F.A.C.]
2. Plant-Wide NOx Limit: Emissions of nitrogen oxides (NOx) from the combined operation of Units 4, 5, 6, and 7 shall not exceed 0.2 lb/MMBtu heat input based on a 30-day rolling average except for periods when Unit 7 is shutdown. The plant-wide daily NOx emission rate shall be determined by the following equation:

$$\text{Plant-Wide Daily MMBtu-Weighted NOx Emission Rate} = \frac{\sum_{\text{Units 4, 5, 6, 7}} [(\text{Unit \# daily MMBtu}) \times (\text{Unit \# daily NOx CEMS Rate})]}{\sum_{\text{Units 4, 5, 6, 7}} (\text{Unit \# daily MMBtu})}$$

The "Unit # daily MMBtu" shall be determined by the daily as-burned fuel analysis and the fuel fired for each unit. The "Unit # daily NOx CEMS Rate" shall be determined by the daily average of NOx CEMS data for each unit and reported in terms of "lb/MMBtu heat input". The plant-wide daily NOx emissions rate shall be determined each day regardless of the operating status for Unit 7. The plant-wide 30-day rolling NOx average shall be determined for each 30 sequential Unit 7 operating days, which need not be consecutive. A Unit 7 operating day means any calendar day that Unit 7 operates a minimum of 18 hours. The Unit 7 daily NOx CEMS rate may consist of less than 18 hours of data if this is due to CEMS malfunction or invalid CEMS data. When the catalyst temperature is below 600° F during a startup or shutdown, NOx emissions data collected during such periods may be excluded from the daily NOx average. In accordance with Condition No. 9 of Subsection 3A, NOx emissions data collected during SCR bypass during the non-ozone season may be excluded from the daily NOx average. The plant-wide NOx emission standard shall be achieved by utilizing the SCR system for Unit 7 and implementing the selected NOx control strategy for Units 4, 5, and 6. The effective date for the plant-wide NOx emission standard is:

- a. The startup date of the selected additional NOx reduction project, (excluding an SCR project for Unit 6), but no later than May 1, 2006; or
- b. The startup date of the SCR project for Unit 6, but no later than December 31, 2007.

## SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

### B. EUs 001 to 007 – Combined Conditions

For purposes of this condition, “startup date” shall mean the date that the permittee demonstrates initial compliance with the terms of the required air construction permit (or other Department approval) that authorized implementation of the additional NOx reduction project. [Paragraphs 2, 3 and Exhibit B of the Agreement]

3. **NOx CEMS:** To demonstrate compliance with the plant-wide NOx emissions standard, the permittee shall install, calibrate, operate and maintain continuous emissions monitoring systems (CEMS) to continuously monitor and record the emissions of nitrogen oxides and an appropriate diluent gas (carbon dioxide or oxygen) from Units 4, 5, 6, and 7. {Permitting Note: The existing NOx CEMS required by the Acid Rain program satisfy this requirement.} [Exhibit B of the Agreement]
4. **Quarterly Report:** For each calendar day during the reporting quarter, the permittee shall report the following information related to the NOx CEMS for Unit 7:
  - Daily NOx emission rate for each boiler, lb/MMBtu;
  - Daily heat input rate for each boiler, MMBtu/day;
  - 30-day plant-wide NOx emissions rate, lb/MMBtu;
  - Identify whether Unit 7 operated less than 18 hours;
  - Identify the occurrence of a Unit 7 startup or shutdown; and
  - Identify operation of Unit 7 with SCR bypass for catalyst maintenance or repair and the duration of bypass (hours).

Identify the “F” factor used for any calculations, the method of determination, and type of fuel combusted. For each day that CEMS data was not obtained for at least 18 hours of Unit 7 operation, provide a justification for not obtaining sufficient data and describe the corrective actions taken to prevent this in the future. Identify any emissions data excluded from the calculation of emission rates due to startup, shutdown, or malfunction.

*{Permitting Notes: To achieve the plant-wide NOx standard for the Crist Plant, Gulf Power Company will take the following additional actions:*

*Unit Retirements: The Agreement requires the retirement of Unit 1 within 120 days of receiving a final order from the Public Service Commission that authorizes the recovery of costs associated with the pollution control equipment incurred pursuant to the Agreement through the Environmental Cost Recovery Clause. A final order is one that is no longer subject to review or appeal by a court of competent jurisdiction. The Agreement also requires the retirement of Units 2 and 3 on or before May 1, 2006. [Paragraph 4 of the Agreement]*

*Additional NOx Reduction Projects: The Agreement requires Gulf Power Company to conduct a variety of engineering studies to determine the feasibility of NOx reduction technologies for one or more of the three remaining coal-fired units (Units 4, 5, and 6). The studies and related unit-specific demonstration projects may include (but are not limited to) SCR, selective non-catalytic reduction (SNCR) technology, over-fired air (OFA) technology, natural gas re-burn technology, selective use of biomass fuel, etc. The studies must be complete by May 1, 2005. Before implementing any NOx reduction technology or combination of technologies, Gulf Power Company must obtain written concurrence from the Department that the use thereof is reasonable and necessary to achieve the overall plant-wide NOx emission standard. If a NOx reduction technology or a combination of technologies other than an SCR project for Unit 6 is identified as appropriate, Gulf Power Company will implement the technology or combination of technologies on one or more of the three remaining coal-fired units by May 1, 2006. If an SCR project for Unit 6 is identified as the appropriate NOx reduction technology, Gulf Power Company will implement, begin and continue operating the SCR system by December 31, 2007. [Paragraph 2 of the Agreement]}*

**SECTION 4. APPENDICES**  
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Appendix CF. Citation Format  
Appendix GC. General Conditions  
Appendix SC. Standard Conditions

**SECTION 4. APPENDIX CF**  
**CITATION FORMATS**

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*The following examples illustrate the format used in the permit to identify applicable permitting actions and regulations.*

**Old Permit Numbers**

*Example:* Permit No. AC50-123456 or Air Permit No. AO50-123456

*Where:* "AC" identifies the permit as an Air Construction Permit  
"AO" identifies the permit as an Air Operation Permit  
"123456" identifies the specific permit project number

**New Permit Numbers**

*Example:* Permit Nos. 099-2222-001-AC, 099-2222-001-AF, 099-2222-001-AO, or 099-2222-001-AV

*Where:* "099" represents the specific county ID number in which the project is located  
"2222" represents the specific facility ID number  
"001" identifies the specific permit project  
"AC" identifies the permit as an air construction permit  
"AF" identifies the permit as a minor federally enforceable state operation permit  
"AO" identifies the permit as a minor source air operation permit  
"AV" identifies the permit as a Title V Major Source Air Operation Permit

**PSD Permit Numbers**

*Example:* Permit No. PSD-FL-317

*Where:* "PSD" means issued pursuant to the Prevention of Significant Deterioration of Air Quality  
"FL" means that the permit was issued by the State of Florida  
"317" identifies the specific permit project

**Florida Administrative Code (F.A.C.)**

*Example:* [Rule 62-213.205, F.A.C.]

*Means:* Title 62, Chapter 213, Rule 205 of the Florida Administrative Code

**Code of Federal Regulations (CFR)**

*Example:* [40 CFR 60.7]

*Means:* Title 40, Part 60, Section 7

**Agreement**

On August 28, 2002, Gulf Power Company and the Florida Department of Environmental Protection entered into an agreement titled, "Agreement for the Purpose of Ensuring Compliance with the Ozone Ambient Air Quality Standards". Throughout the permit, this is cited as the "Agreement".

**SECTION 4. APPENDIX GC**  
**GENERAL CONDITIONS**

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The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey and vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
  - a. Have access to and copy and records that must be kept under the conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of non-compliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida



**SECTION 4. APPENDIX GC**  
**GENERAL CONDITIONS**

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Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - a. Determination of Best Available Control Technology (not applicable to project);
  - b. Determination of Prevention of Significant Deterioration (not applicable to project); and
  - c. Compliance with New Source Performance Standards (not applicable to project).
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - 1) The date, exact place, and time of sampling or measurements;
    - 2) The person responsible for performing the sampling or measurements;
    - 3) The dates analyses were performed;
    - 4) The person responsible for performing the analyses;
    - 5) The analytical techniques or methods used; and
    - 6) The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

**SECTION 4. APPENDIX SC**  
**STANDARD CONDITIONS**

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*{Permitting Note: Unless otherwise specified by permit or rule, the following conditions apply to all emissions units and activities at this facility.}*

**EMISSIONS AND CONTROLS**

1. **Plant Operation - Problems:** If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]
2. **Circumvention:** The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
3. **Excess Emissions Allowed:** Unless otherwise specified in the permit, excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]
4. **Excess Emissions Prohibited:** Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]
5. **Excess Emissions - Notification:** In case of excess emissions resulting from malfunctions, the permittee shall notify the Department or the appropriate Local Program in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]
6. **Objectionable Odor Prohibited:** No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) and 62-210.200(203), F.A.C.]
7. **General Visible Emissions:** Unless otherwise specified in the permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20 percent opacity. [Rule 62-296.320(4)(b)1, F.A.C.]
8. **Unconfined Particulate Emissions:** During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering and/or application of water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4)(c), F.A.C.]

**TESTING REQUIREMENTS**

9. **Required Number of Test Runs:** For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured; provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five-day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five-day period allowed for the test, the Secretary or his or her designee may accept the results of two complete runs as proof of compliance, provided that the arithmetic mean of the two complete runs is at least 20% below the allowable emission limiting standard. [Rule 62-297.310(1), F.A.C.]
10. **Operating Rate During Testing:** Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted

**SECTION 4. APPENDIX SC**  
**STANDARD CONDITIONS**

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capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rule 62-297.310(2), F.A.C.]

11. Calculation of Emission Rate: For each emissions performance test, the indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]
12. Test Procedures: Tests shall be conducted in accordance with all applicable requirements of Chapter 62-297, F.A.C.
  - a. *Required Sampling Time*. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes. The minimum observation period for a visible emissions compliance test shall be thirty (30) minutes. The observation period shall include the period during which the highest opacity can reasonably be expected to occur.
  - b. *Minimum Sample Volume*. Unless otherwise specified in the applicable rule or test method, the minimum sample volume per run shall be 25 dry standard cubic feet.
  - c. *Calibration of Sampling Equipment*. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1, F.A.C.

[Rule 62-297.310(4), F.A.C.]

13. Determination of Process Variables

- a. *Required Equipment*. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.
- b. *Accuracy of Equipment*. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

14. Sampling Facilities: The permittee shall install permanent stack sampling ports and provide sampling facilities that meet the requirements of Rule 62-297.310(6), F.A.C.
15. Test Notification: The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. [Rule 62-297.310(7)(a)9, F.A.C.]
16. Special Compliance Tests: When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department. [Rule 62-297.310(7)(b), F.A.C.]
17. Test Reports: The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test. The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

**SECTION 4. APPENDIX SC**  
**STANDARD CONDITIONS.**

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1. The type, location, and designation of the emissions unit tested.
2. The facility at which the emissions unit is located.
3. The owner or operator of the emissions unit.
4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
8. The date, starting time and duration of each sampling run.
9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
10. The number of points sampled and configuration and location of the sampling plane.
11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
12. The type, manufacturer and configuration of the sampling equipment used.
13. Data related to the required calibration of the test equipment.
14. Data on the identification, processing and weights of all filters used.
15. Data on the types and amounts of any chemical solutions used.
16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
18. All measured and calculated data required to be determined by each applicable test procedure for each run.
19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.
21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rule 62-297.310(8), F.A.C.]

**RECORDS AND REPORTS**


18. Records Retention: All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least five (5) years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request. [Rules 62-4.160(14) and 62-213.440(1)(b)2, F.A.C.]
19. Annual Operating Report: The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by March 1st of each year. [Rule 62-210.370(2), F.A.C.]


Florida Department of  
Environmental Protection

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Memorandum

TO: Howard Rhodes, DARM

THROUGH: Trina Vielhauer, BAR   
Al Linero, NSR

FROM: Jeff Koerner, NSR 

DATE: March 3, 2003

SUBJECT: Final Air Construction Permit No. 0330045-005-AC  
Gulf Power Company, Crist Electrical Generating Plant  
Unit 7 ESP/SCR Pollution Control Project

The Final Permit for this project is attached for your approval and signature. This permit authorizes the replacement of the existing electrostatic precipitator and the installation of a new selective catalytic reduction system for Unit 7 at the existing Crist Electric Generating Plant in Pensacola, Florida. The Department contemplated these air pollution control devices in an August 2002 agreement with Gulf Power Company titled, "Agreement for the Purpose of Ensuring Compliance with the Ozone Ambient Air Quality Standards". In accordance with Rule 62-212.400(2)(a)2, F.A.C. and EPA's definition of "modification" in 40 CFR 52.21(b)(2)(iii)(h), the pollution control project is exempt from PSD preconstruction review. The project proposes to reduce NOx emissions by approximately 5000 tons per year.

The Department distributed an "Intent to Issue Permit" package on February 14, 2003. The applicant published the "Public Notice of Intent to Issue" in the Pensacola News Journal on February 16, 2003. The Department received the proof of publication on February 25, 2003. No comments on the draft permit were received.

Day #90 is June 3, 2003. I recommend your approval of the attached Final Permit for this project:

Attachments