




Memorandum

Florida Department of Environmental Protection

Permit Signed : 5/2/07

TO: Joseph Kahn

THRU: Trina Vielhauer 
Jeff Koerner 

FROM: Jonathan Holtom 

DATE: April 26, 2007

SUBJECT: Project No. 0330045-015-AC
Final Construction Permit for Gulf Power Crist
Installation of a Wet Flue Gas Desulfurization System

Attached for your approval and signature is a final construction permit for Gulf Power's Crist Electric Generating Plant. This permit authorizes Gulf Power Company to construct a Wet Flue Gas Desulfurization system for Units 4 - 7 to reduce sulfur dioxide emissions as part of its plan to comply with the requirements of the Clean Air Interstate Rule.

The Public Notice requirements were met on April 4 by publishing in the Pensacola News Journal. No comments were received from the public in response to this Public Notice, and no petitions were filed for an Administrative Hearing. The applicant did provide minor comments which have been addressed in the Final Determination.

I recommend your approval and signature.

Attachments

TLV/jk/jh

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF FINAL PERMIT

In the Matter of an
Application for Permit by:

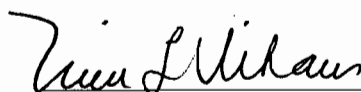
Ms. Penny Manuel, Vice President and SPO
Gulf Power Company
One Energy Place
Pensacola, Florida 32520-0328

Air Permit No. 0330045-015-AC
Crist Electric Generating Plant
Escambia County

Enclosed is Final Permit Number 0330045-015-AC. This permit authorizes Gulf Power Company to construct a Wet Flue Gas Desulfurization system for Units 4 - 7 to reduce sulfur dioxide emissions as part of its plan to comply with the requirements of the Clean Air Interstate Rule. 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 30 days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.



Trina L. 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 Determination and the Final Permit) was sent by e-mail with return receipt requested before the close of business on 5/2/07 to the persons listed:

Ms. Penny M. Manuel, Gulf Power Company (pmmanuel@southernco.com)

Mr. G. Dwain Waters, Gulf Power Company (gdwaters@southernco.com)

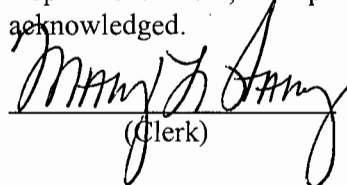
Mr. Tom Davis, ECT (tdavis@ectinc.com)

Mr. Rick Bradburn, NWD (rick.bradburn@dep.state.fl.us)

Mr. Gregg Worley, EPA Region 4 (worley.gregg@epa.gov)

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.



(Clerk)

5/2/07
(Date)



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

PERMITTEE

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

Authorized Representative:

Ms. Penny Manuel, Vice President and SPO

Air Permit No. 0330045-015-AC
Crist Electric Generating Plant
Existing Units 4 - 7
Wet FGD Project
Permit Expires: December 31, 2010

PROJECT AND LOCATION

This permit authorizes the construction of a new wet flue gas desulfurization system (FGD) for Units 4 - 7 at the existing Crist Electric Generating Station (SIC No. 4911), 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

The applicant elects to install a wet flue gas desulfurization system to provide full flexibility in implementing the federal cap and trade program for sulfur dioxides under the Clean Air Interstate Rule (CAIR). Because CAIR affords a regulated facility the flexibility to evaluate market conditions to determine whether it will install controls, operate existing controls, or purchase allowances generated by other plants, the Department of Environmental Protection (Department) does not require the installation of this equipment or its operation.

This air pollution construction permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, Florida Administrative Code (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.

CONTENTS

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

Joseph Kahn, Director
Division of Air Resource Management

5/1/2007
(Date)

FINAL DETERMINATION

Gulf Power Company
Crist Electric Generating Plant
Air Permit No. 0330045-015-AC

The Department distributed a public notice package on March 30, 2007, to authorize the installation of a wet Flue Gas Desulfurization (FGD) system for units 4 - 7 at the Gulf Power Crist Electric Generating Plant, which is located on Pate Road, off of 10 Mile Road on Governors Bayou, Escambia County. The Public Notice of Intent to Issue was published in The Pensacola News Journal on April 4, 2007.

COMMENTS/CHANGES

No public comments were received during the 14-day public comment period; however, comments were received from the Permittee. Those comments and the Department's response are addressed below.

Email from Mr. G. Dwain Waters dated April 16, 2007

Comment 1. Statement of Basis: Permit Cover Page. The description states the purpose as "to provide full flexibility in implementing the federal cap and trade program for nitrogen oxides under the Clean Air Interstate Rule (CAIR)". Gulf requests the words: "nitrogen oxides" be deleted and replaced with "sulfur dioxides" in the statement of basis. The Wet FGD Scrubber system reduces sulfur dioxide in lieu of nitrogen oxides.

Response 1. The correction has been made.

Comment 2. Section 1. General Information: Facility and Project Description; Page 2 of 6. Please revise the sentence: "Fuel oil is used as supplemental fuel in all four of the units" to: "Natural gas, fuel oil and on-specification used oil are used as supplemental fuels in all four of the units." The revised description more actually reflects the availability of supplemental fuels permitted for the Crist units.

Response 2. The requested change has been made.

Comment 3. Section 3. Emissions Unit Specific Conditions; Page 4 of 6. The words: "ammonia injection rates" should be deleted in the sentence above the permit note which reads: "Each stack is equipped with continuous monitors for determining opacity, stack gas flow rates and ammonia injection rates, and emissions of carbon dioxide (CO₂), nitrogen oxides (NO_x) and sulfur dioxides (SO₂)." Each stack is not equipped with a system to monitor ammonia injection rates. This section appears to describe the existing units and stacks at Plant Crist.

Response 3. As written, the paragraph describes the existing stacks and associated monitors for each unit. For clarification, the paragraph is changed as follows:

Under the current configuration, Units 4 and 5 share a common stack that is 450 feet tall with a diameter of 18.0 feet. The combined volumetric flow rate from Units 4 and 5 at permitted capacity is approximately 802,500 acfm with an exit temperature of 290° F. Units 6 and 7 also share a common stack that is 450 feet tall with a diameter of 23.2 feet. The combined volumetric flow rate from Units 6 and 7 at permitted at capacity is approximately 2,463,000 acfm with an exit temperature of 320° F. The ductwork from each unit leading to the existing stacks is equipped with continuous monitors for

FINAL DETERMINATION

Gulf Power Company
Crist Electric Generating Plant
Air Permit No. 0330045-015-AC

determining opacity, stack gas flow rates, ~~and ammonia injection rates~~, and emissions of carbon dioxide (CO₂), nitrogen oxides (NO_x), and sulfur dioxide (SO₂). The ammonia supply line leading to the Unit 7 SCR system and the urea supply lines leading to the Units 4, 5 and 6 SNCR systems are equipped with flow monitors. Following the completion of this project, the existing stacks will be used during periods of wet FGD bypass operations. Emissions from the new wet FGD system will exhaust through a new stack, as described in Condition 3, below.

Comment 4. Section 3. Specific Condition #4 Limestone Handling; Page 5 of 6. The statement: “To the extent practicable, limestone conveyors shall be enclosed and crushing equipment located inside buildings” seems to be vague in how to determine the extent of practicable. The general rule that applies reads: "Any permit issued to a facility with emissions of unconfined particulate matter shall specify the reasonable precautions to be taken by that facility to control the emissions of unconfined particulate matter.”

Response 4. It is the Department’s intent of this requirement to prevent or minimize emissions of additional unconfined particulate matter emissions associated with the operation of this new equipment. To accomplish this, the new crushers are to be located within a building or enclosure and the exposed conveyors are to be covered where possible. We understand that it is not practicable to cover some of the loading/unloading points and that it is difficult to completely contain emissions from drop points and changes in conveyor directions. At the locations where it is not practicable to cover the conveyors due to operational requirements, the plant shall adhere to the precautions that were proposed in the application to prevent emissions of unconfined particulate matter. For clarity, the following condition has been added as Specific Condition 10. The existing Specific Conditions 10 – 13 have been renumbered as 11 – 14.

10. Emissions of Unconfined Particulate Matter. Pursuant to Rules 62-296.320(4)(c)1., 3. & 4., F.A.C., reasonable precautions to prevent emissions of unconfined particulate matter at this facility include the following requirements:

- 1) To prevent emissions of unconfined particulate matter while unloading fly ash, ash leaving the facility shall be hauled in closed container trucks. Ash and gypsum being disposed of on plant property shall be mixed with water as needed to reduce fugitive emissions.
- 2) The plant ash and gypsum haul roads shall be watered as necessary to control any unconfined particulate matter.
- 3) As sections of the ash and gypsum landfill reach their capacity these sections shall be grassed over to prevent any particulate matter being lifted into the wind.
- 4) The coal pile shall be packed regularly to help in the prevention of coal pile fires and reduce fugitive dust.
- 5) A dust suppressant shall be applied to the coal, limestone and gypsum on the conveyor belts as necessary to control dust.

[Rule 62-296.320(4)(c), F.A.C.]

FINAL DETERMINATION

Gulf Power Company
Crist Electric Generating Plant
Air Permit No. 0330045-015-AC

In addition, the following sentence will be added to Specific Conditions 4 and 5:

See Specific Condition 10.

Comment 5. Section 3. Specific Condition #5 Gypsum Handling; Page 5 of 6. The statement: “To the extent practicable, conveyors, transporting dewatered gypsum shall be enclosed” seems to be vague in how to determine the extent of practicable. The general rule that applies reads: “Any permit issued to a facility with emissions of unconfined particulate matter shall specify the reasonable precautions to be taken by that facility to control the emissions of unconfined particulate matter.”

Response 5. See response 4, above.

Comment 6. Section 3. Specific Condition #8 Visible Emissions; Page 6 of 6. The opacity limitation should be based on the general opacity standard of 20% in lieu of 5% opacity.

Response 6. When operating properly, there should be no emissions from the silo baghouses. A discharge of 20% opacity from a baghouse vent for this activity would suggest a failure of the control system and much higher emissions than indicated in the application. No change is made as a result of this comment.

Comment 7. Section 3. Specific Condition #10 (now #11) Wet FGD Bypass; Page 6 of 6. Please revise item a. to reference that startup/shutdown bypass should be per unit per year in lieu of “per year” thus the condition should read: “Such periods of bypass are estimated to be less than 96 hours per unit per year”. In addition, item b. references: “Periods of bypass operations shall be documented as specified in Condition 12, below”. The reference should be Condition 13, below. Condition 12 references “Project Schedule”.

Response 7. The Department agrees with this comment and will clarify that the estimate is based on hours per year per unit.

Comment 8. Section 3. Specific Condition #11 (now #12). Continuous Monitoring; Page 6 of 6. Gulf Power met with the FDEP Monitoring Group regarding the Crist FGD Monitoring Plan on April 9, 2007. Gulf believes all issues regarding the alternative monitoring plan have been resolved which allows removal of the CEM systems (for state compliance requirements) during bypass operations. Gulf agrees to amend the plan previously submitted to include quarterly QA/QC procedures for the SCR unit with approved methods and agrees to conduct annual NO_x tests as a QA/QC on the SNCR units to verify the Appendix D matrix after its initial establishment. Gulf will agree to update the SNCR NO_x matrix before all future Title V renewal submissions (i.e., every 5 years). Gulf will also request to retain the CEM method as an option for bypass should new regulation or compliance initiatives require and/or due to plant election. It is Gulf’s interpretation of that the existing language in Specific Condition #11 allows the permittee to obtain a letter of authorization from the Department approving the alternative plan, thus no changes are needed.

Response 8. The issuance of an alternate monitoring plan is a separate formal Agency Action (not a letter of authorization) that is not addressed by this air construction permit. Specific Condition 11 (renumbered to 12) will remain an applicable requirement in this permit issuance. If, and when, an

FINAL DETERMINATION

Gulf Power Company
Crist Electric Generating Plant
Air Permit No. 0330045-015-AC

alternate monitoring plan is officially approved, it will be incorporated into the Title V permit at the time of the next revision.

Comment 9. Section 3. Specific Condition #13. Scrubber Bypass; Page 6 of 6. Notice to the Compliance Authority of planned maintenance or repair of the scrubber seems contradictory to Specific Condition #9 that states "Operation of the wet FGD system is not required by this permit." In addition, non-planned events may occur which require maintenance or repair that can not be pre-noticed.

Response 9. Gulf Power has indicated that the wet FGD system will operate most of the time. The permit condition simply requires a notice prior to bypass for planned maintenance or repair to the control system. Unplanned repairs would fall under the classification of malfunction, which, as stated in Specific Condition 11, is estimated to be less than 96 hours per year. If unable to comply with any condition of the permit as a result of a malfunction, the permittee is required to immediately notify the Department. "Immediately" means the same day, if during a workday (i.e., 8:00 a.m. - 5:00 p.m.), or the first business day after the incident, excluding weekends and holidays. This is required in Condition 1 of Appendix SC.

Comment 10. Additional General Design Comment: Crist will need to operate an alternative ventilation system during the bypass of Units 4 or 5 for boiler maintenance when the scrubber is on-line for other Crist Units. This operation is due to safety concerns for workers who enter the boiler to perform repairs once the boiler is shutdown and all fans are cleared. Gulf proposes to add man safe discharge dampers to isolate the draft to the scrubber for Units 4 and 5 as an alternate ventilation system. Engineering will design small ducts to an old auxiliary stack not currently in use to allow adequate flow of natural draft air through the boiler. Air flow will be regulated by the ID fan inlet dampers. No additional emissions are expected during these boiler outage maintenance periods. Gulf believes that this safety mechanism is needed and does not impact the scrubber design, the operation of the scrubber or the emission estimates previously submitted for the project. Gulf believes this change falls within the scope outlined in Specific Condition # 6 Updated Designs and commits to submitting a final design specification with the location and operation of the man safe dampers and specifics of the auxiliary stack during the construction phase.

Response 10. Please provide a complete description of the final design when submitting the Title V revision application at the conclusion of this project. At that time, a description will be added to the Title V permit for the appropriate emissions units.

CONCLUSION

The changes to the Draft Permit are considered minor. The final action of the Department is to issue the final permit with the changes noted above.

SECTION 1. GENERAL INFORMATION

FACILITY AND PROJECT DESCRIPTION

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

ID	Emission Unit Description
004	Boiler No. 4 (Substitution Phase I and Phase II Acid Rain Unit)
005	Boiler No. 5 (Substitution Phase I and Phase II Acid Rain Unit)
006	Boiler No. 6 (Phase I and Phase II Acid Rain Unit)
007	Boiler No. 7 (Phase I and Phase II Acid Rain Unit)

The permittee will construct a new wet FGD system for Units 4 - 7.

REGULATORY CLASSIFICATION

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

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.

PSD: The existing facility is a major stationary source of air pollution.

RELEVANT DOCUMENTS

The following relevant documents are not a part of this permit, but helped form the basis for this permitting action: the permit application and additional information received to make it complete; the Draft Permit; the Department's Technical Evaluation and Preliminary Determination; the Written Notice of Intent to Issue Air Permit; the Public Notice of Intent to Issue Air Permit; the publication in a newspaper of general circulation; comments on the Draft Permit package; and the Department's Final Determination.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The Permitting Authority for this project is the Bureau of Air Regulation in the Division of Air Resource Management of the Department. The mailing address for the Bureau of Air Regulation is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida, 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Air Resource Section of the Department's Northwest District Office. The mailing address for the Northwest District office is: 160 Governmental Center, Suite 308, Pensacola, Florida, 32502-5794. The phone number is: (850) 595-8300.
3. Appendices: The following Appendices are attached as part of this permit: Appendix CF (Citation Format) and Appendix GC (General Conditions); 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. 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. The application shall be submitted to the Bureau of Air Regulation, with copies to each Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Wet FGD System for Units 4 – 7

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

ID	Emission Unit Description
004	Boiler No. 4 is a Combustion Engineering tangentially fired, dry bottom boiler that began commercial operation on July 1, 1959. It is a Substitution Phase I and Phase II Acid Rain Unit. Authorized fuels include coal, natural gas, new No. 2 fuel oil and/or on-specification used oil. The permitted capacity is 1,096.7 MMBtu per hour. Existing air pollution control equipment includes hot-side and cold-side electrostatic precipitators, low-NO _x burners, and selective non-catalytic reduction (SNCR).
005	Boiler No. 5 is a Combustion Engineering tangentially fired, dry bottom boilers that began commercial operation on June 1, 1961. It is a Substitution Phase I and Phase II Acid Rain Unit. Authorized fuels include coal, natural gas, new No. 2 fuel oil and/or on-specification used oil. The permitted capacity is 1,096.7 MMBtu per hour. Existing air pollution control equipment includes hot-side and cold-side electrostatic precipitators, low-NO _x burners, and SNCR.
006	Boiler No. 6 is a Foster Wheeler front wall fired, dry bottom boiler that began commercial operation on May 1, 1970. It is a Phase I and Phase II Acid Rain Unit. Authorized fuels include coal, natural gas, new No. 2 fuel oil and/or on-specification used oil. The permitted capacity is 3,704.8 MMBtu per hour. Existing air pollution control equipment includes a cold-side electrostatic precipitator, low-NO _x burners, and SNCR.
007	Boiler No. 7 is a Foster Wheeler front and rear wall fired, dry bottom boiler that began commercial operation on August 1, 1973. It is a Phase I and Phase II Acid Rain Unit. Authorized fuels include coal, natural gas, new No. 2 fuel oil and/or on-specification used oil. The permitted capacity is 6,406 MMBtu per hour. Existing air pollution control equipment includes a cold-side electrostatic precipitator, low-NO _x burners, and selective catalytic reduction (SCR).

Under the current configuration, Units 4 and 5 share a common stack that is 450 feet tall with a diameter of 18.0 feet. The combined volumetric flow rate from Units 4 and 5 at permitted capacity is approximately 802,500 acfm with an exit temperature of 290° F. Units 6 and 7 also share a common stack that is 450 feet tall with a diameter of 23.2 feet. The combined volumetric flow rate from Units 6 and 7 at permitted at capacity is approximately 2,463,000 acfm with an exit temperature of 320° F. The ductwork from each unit leading to the existing stacks is equipped with continuous monitors for determining opacity, stack gas flow rates, and emissions of carbon dioxide (CO₂), nitrogen oxides (NO_x), and sulfur dioxide (SO₂). The ammonia supply line leading to the Unit 7 SCR system and the urea supply lines leading to the Units 4, 5 and 6 SNCR systems are equipped with flow monitors. Following the completion of this project, the existing stacks will be used during periods of wet FGD bypass operations. Emissions from the new wet FGD system will exhaust through a new stack, as described in Condition 3, below.

{Permitting Note: Based on the current Title V air operation permit, these units are regulated under Rule 62-296.405, F.A.C. (Fossil Fuel Fired Steam Generators > 250 MMBtu/Hour Heat Input). Units 4 and 5 are regulated as Phase I Substitution and Phase II Acid Rain Units. Units 6 and 7 are regulated as Phase I and Phase II Acid Rain Units.}

PREVIOUS APPLICABLE REQUIREMENTS

1. Other Permits: The conditions of this permit supplement all previously issued air construction and operation permits for these emissions units. 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

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Wet FGD System for Units 4 – 7

2. Wet Flue Gas Desulfurization (FGD) System: The permittee is authorized construct a new wet FGD system to control SO₂ emissions from Units 4 – 7. The system will consist of a large scrubber vessel as well as a number of subsystems for transport and processing flue gas exhaust, limestone, gypsum, other solids, and water. All four boiler exhausts will be directed to the single scrubber reactor where a limestone slurry will be injected to chemically react with sulfur dioxide (SO₂) in the scrubber vessel for removal as gypsum. The wet FGD system shall be installed, tuned, operated, and maintained as described in the application, approved drawings, plans, and other documents on file with the Department. [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]

{Permitting Note: The wet FGD system is based on the Model CT-121 wet FGD process licensed by Southern Company from Chiyoda Corporation. The preliminary design is for removal of approximately 95% of the SO₂ emissions. In addition, the wet FGD system is expected to: remove an estimated 50% to 70% of the particulate matter emissions; remove an estimated 95% of the hydrogen chloride and hydrogen fluoride emissions; and capture an estimated 80% of the oxidized mercury.}

3. Flue Gas Handling: The permittee is authorized to construct a new exhaust stack to serve as the common stack for Units 4 - 7 under normal conditions with the wet FGD system in operation. The preliminary design for the new common stack is for the following characteristics: a height of 490 feet; an exit diameter of 35 feet; an exit temperature of 131° F; and an actual volumetric flow rate of 3,282,000 acfm. The two existing stacks for Units 4/5 and Units 6/7 will remain as bypass stacks for: periods of startup and shutdown of Units 4 – 7; malfunction of Units 4 – 7 (any or all) or the wet FGD system; or, repair or scheduled maintenance of the wet FGD system. Under normal operating conditions, the existing stack for Units 4/5 will be used to provide makeup air to the system. [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]
4. Limestone Handling: The permittee is authorized to construct a new limestone handling system for the receipt, storage, conveyance, pulverization, and sluicing of limestone. The system will consist of a barge unloader, an open storage pile, feed hoppers, two closed silos, two ball mills, two limestone slurry storage tanks, and associated pumps, valves, instrumentation and piping. The permittee shall install a baghouse on each silo designed to meet a particulate matter emissions specification of 0.01 grains per dry standard cubic feet. New and replacement bags shall be selected that meet this equipment specification. To the extent practicable, limestone conveyors shall be enclosed and crushing equipment located inside buildings. The remainder of the limestone handling system shall be designed, maintained and operated to minimize emissions of fugitive particulate matter by confining, enclosing or wetting (as necessary). See specific condition 10. [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]
5. Gypsum Handling: The permittee is authorized to construct a new gypsum handling system to transport, store, dewater, and load for shipment the gypsum produced by the scrubber vessel. The equipment will include tanks, pumps, piping, valves, instrumentation, hydrocyclones, vacuum filters, and conveyors. There will be two vacuum filters with accessories to serve units 4 - 7. To the extent practicable, conveyors transporting dewatered gypsum shall be enclosed. The remainder of the gypsum handling system shall be designed, maintained and operated to minimize emissions of fugitive particulate matter by confining, enclosing or wetting (as necessary). See specific condition 10. [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]
6. 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. [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]

EMISSIONS LIMITING AND PERFORMANCE STANDARDS

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Wet FGD System for Units 4 – 7

7. Emissions Standards and Limitations: This permit does not alter any previous emissions standards or limitations on permitted capacities such as heat input rates, fuel consumption, or hours of operation. It does not authorize any additional fuels or other such methods of operation. The permittee shall comply with all applicable emissions standards and limitations specified in any valid air construction and operation permits. [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]
8. Visible Emissions: Visible emissions from the limestone storage silo baghouses shall not exceed 5% opacity. Initial and annual tests shall be conducted in accordance with EPA Method 9 and the test conditions in Appendix SC of this permit. [Rule 62-4.070, F.A.C.]
9. Circumvention: No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly. Operation of the wet FGD system is not required by this permit. [Rule 62-210.650, F.A.C.]
10. Emissions of Unconfined Particulate Matter: Pursuant to Rules 62-296.320(4)(c)1., 3. & 4., F.A.C., reasonable precautions to prevent emissions of unconfined particulate matter at this facility include the following requirements:
 - 1) To prevent emissions of unconfined particulate matter while unloading fly ash, ash leaving the facility shall be hauled in closed container trucks. Ash and gypsum being disposed of on plant property will be mixed with water as needed to reduce fugitive emissions.
 - 2) The plant ash and gypsum haul roads shall be watered as necessary to control any unconfined particulate matter.
 - 3) As sections of the ash and gypsum landfill reach their capacity these sections shall be grassed over to prevent any particulate matter being lifted into the wind.
 - 4) The coal pile shall be packed regularly to help in the prevention of coal pile fires and reduce fugitive dust.
 - 5) A dust suppressant shall be applied to the coal, limestone and gypsum on the conveyor belts as necessary to control dust.

[Rule 62-296.320(4)(c), F.A.C.]

BYPASS OPERATION

11. Wet FGD Bypass: In accordance with the manufacturer's recommended procedures, the permittee intends to bypass the wet FGD system under the following conditions.
 - a. During startup or shutdown of Units 4 – 7, or malfunction of any of the Units 4 – 7 or the wet FGD system, the wet FGD system may be bypassed as necessary to prevent contaminants due to incomplete combustion from entering the scrubber and/or being entrained in the gypsum. Such periods of bypass are estimated to be less than 96 hours per year per unit.
 - b. The wet FGD system may be bypassed to perform scrubber maintenance and/or repair. Periods of bypass due to scrubber maintenance and repair are estimated to be less than 360 hours per year.

Periods of bypass operations shall be documented as specified in Condition 14, below.

[Application No. 0330045-015-AC; Design; Rules 62-4.070, F.A.C.]

CONTINUOUS MONITORING REQUIREMENTS

12. Continuous Monitoring: Existing Units 4 - 7 are subject to the federal Acid Rain monitoring requirements

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Wet FGD System for Units 4 – 7

for opacity, stack gas flow rates, and emissions of CO₂, NO_x and SO₂. The permittee shall install, calibrate, operate and maintain continuous emissions monitoring systems in the new common stack to monitor and record the stack gas flow rate and emissions of CO₂, NO_x and SO₂. The new equipment shall be certified within 60 days of startup of the new wet FGD system. If the existing COMS located in the ductwork of each unit are able to record opacity during periods of normal and bypass operation, the existing COMS may be retained; otherwise, a new COMS shall be installed in the common scrubber stack. Unless or until an alternate sampling procedure is approved by the Department, the existing monitoring systems shall be maintained and used to demonstrate compliance with all existing emissions standards when operating in the bypass mode. [Application No. 0330045-015-AC; Design; Rules 62-4.070, F.A.C. & 62-214, F.A.C.]

RECORDS AND REPORTS

13. Project Schedule: This construction project is scheduled to be completed and operation of the new wet FGD system commenced by December 31, 2009. The permittee shall update the Department of any change to this schedule. In addition, the permittee shall notify the Department upon completion of construction of the wet FGD system. [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]
14. Scrubber Bypass: For each period of scrubber bypass due to planned maintenance or repair, the permittee shall notify the Compliance Authority in advance by email, fax, or phone with the following information: the purpose of the wet FGD bypass, the expected dates of wet FGD bypass, and the expected duration of wet FGD bypass. During all such bypass periods, each unit shall continue to comply with the current permit standards and conditions related to excess emissions. No advance notice is required for scrubber bypass due to startup or shutdown of any of Units 4 - 7; however, the permittee shall record and maintain on-site records of all scrubber bypasses. [Rule 62-4.070(3), F.A.C.]

SECTION 4. APPENDICES
CONTENTS

Appendix CF. Citation Format
Appendix GC. General Conditions
Appendix SC. Standard Conditions

SECTION 4. APPENDIX CF
CITATION FORMATS

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

SECTION 4. APPENDIX GC

GENERAL CONDITIONS

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

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

{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. **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.]
3. **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.]
4. **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.]
5. **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.]
6. **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.]
7. **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

8. **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.]
9. **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 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

SECTION 4. APPENDIX SC
STANDARD CONDITIONS

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.]

10. 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.]
11. 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.]
12. 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.]
13. 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.
14. 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.]
15. 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.]
16. 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:
 1. The type, location, and designation of the emissions unit tested.
 2. The facility at which the emissions unit is located.

SECTION 4. APPENDIX SC
STANDARD CONDITIONS

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

17. 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.]
18. 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.]

Adams, Patty

From: Harvey, Mary
Sent: Wednesday, May 02, 2007 3:23 PM
To: 'Ms. Penny M. Manuel, Gulf Power Company'; 'Mr. G. Dwain Waters, Gulf Power Company'; 'Mr. Tom Davis, ECT'; Bradburn, Rick; 'Mr. Gregg Worley, EPA Region 4'
Cc: Adams, Patty; Holtom, Jonathan; Gibson, Victoria
Subject: Gulf Power Company - Facility #0330045-015-AC-FINAL
Attachments: 0330045-015-AC - FINAL - Appendix.PDF; 0330045-015-AC Final Permit.PDF; FINLDET 0330045-015-AC-FINAL.PDF; Finlnotc 0330045-015-AC - FINAL.PDF; Signed Documents - Gulf Power Co. - Facility ID #0330045-015-AC-FINAL.pdf

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

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Thank you,

DEP, Bureau of Air Regulation

Adams, Patty

From: Waters, G. Dwain [GDWATERS@southernco.com]
Sent: Wednesday, May 02, 2007 4:32 PM
To: Harvey, Mary; Manuel, Penny Morris; Mr. Tom Davis, ECT; Bradburn, Rick; Mr. Gregg Worley, EPA Region 4
Cc: Adams, Patty; Holtom, Jonathan; Gibson, Victoria
Subject: RE: Gulf Power Company - Facility #0330045-015-AC-FINAL

Gulf Power has received the final Crist FGD Construction Permit. Thanks for the quick response to our permitting request. Dwain

G. Dwain Waters, Q.E.P.
Special Projects and Environmental Assets Coordinator
Gulf Power Company
One Energy Place
Pensacola, Florida 32520-0328
Phone: (850) 444-6527
Cell: (850) 336-6527
Fax: (850) 444-6217
gdwaters@southernco.com

From: Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]
Sent: Wednesday, May 02, 2007 2:23 PM
To: Manuel, Penny Morris; Waters, G. Dwain; Mr. Tom Davis, ECT; Bradburn, Rick; Mr. Gregg Worley, EPA Region 4
Cc: Adams, Patty; Holtom, Jonathan; Gibson, Victoria
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Thank you,

DEP, Bureau of Air Regulation

5/4/2007

Adams, Patty

From: Harvey, Mary
Sent: Thursday, May 03, 2007 9:05 AM
To: Adams, Patty; Holtom, Jonathan
Subject: FW: Gulf Power Company - Facility #0330045-015-AC-FINAL

From: Waters, G. Dwain [mailto:GDWATERS@southernco.com]
Sent: Wednesday, May 02, 2007 4:32 PM
To: Harvey, Mary; Manuel, Penny Morris; Mr. Tom Davis, ECT; Bradburn, Rick; Mr. Gregg Worley, EPA Region 4
Cc: Adams, Patty; Holtom, Jonathan; Gibson, Victoria
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G. Dwain Waters, Q.E.P.
Special Projects and Environmental Assets Coordinator
Gulf Power Company
One Energy Place
Pensacola, Florida 32520-0328
Phone: (850) 444-6527
Cell: (850) 336-6527
Fax: (850) 444-6217
gdwaters@southernco.com

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Sent: Wednesday, May 02, 2007 2:23 PM
To: Manuel, Penny Morris; Waters, G. Dwain; Mr. Tom Davis, ECT; Bradburn, Rick; Mr. Gregg Worley, EPA Region 4
Cc: Adams, Patty; Holtom, Jonathan; Gibson, Victoria
Subject: Gulf Power Company - Facility #0330045-015-AC-FINAL

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5/4/2007

community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

Adams, Patty

From: Harvey, Mary
Sent: Thursday, May 03, 2007 9:05 AM
To: Adams, Patty; Holtom, Jonathan
Subject: FW: Gulf Power Company - Facility #0330045-015-AC-FINAL

From: Manuel, Penny Morris [mailto:PMManuel@southernco.com]
Sent: Wednesday, May 02, 2007 4:25 PM
To: Harvey, Mary
Cc: Waters, G. Dwain; Vick, James O.
Subject: RE: Gulf Power Company - Facility #0330045-015-AC-FINAL

I have received this document.

From: Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]
Sent: Wednesday, May 02, 2007 2:23 PM
To: Manuel, Penny Morris; Waters, G. Dwain; Mr. Tom Davis, ECT; Bradburn, Rick; Mr. Gregg Worley, EPA Region 4
Cc: Adams, Patty; Holtom, Jonathan; Gibson, Victoria
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Thank you,

DEP, Bureau of Air Regulation

Adams, Patty

From: Harvey, Mary
Sent: Thursday, May 03, 2007 9:06 AM
To: Adams, Patty
Subject: FW: Gulf Power Company - Facility #0330045-015-AC-FINAL

From: Tom Davis [mailto:tdavis@ectinc.com]
Sent: Wednesday, May 02, 2007 4:22 PM
To: Harvey, Mary
Subject: RE: Gulf Power Company - Facility #0330045-015-AC-FINAL

From: Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]
Sent: Wednesday, May 02, 2007 3:23 PM
To: Ms. Penny M. Manuel, Gulf Power Company; Mr. G. Dwain Waters, Gulf Power Company; Mr. Tom Davis, ECT; Bradburn, Rick; Mr. Gregg Worley, EPA Region 4
Cc: Adams, Patty; Holtom, Jonathan; Gibson, Victoria
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Adams, Patty

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To: Adams, Patty
Subject: FW: Gulf Power Company - Facility #0330045-015-AC-FINAL

From: Manuel, Penny Morris [<mailto:PManuel@southernco.com>]
Sent: Wednesday, May 02, 2007 3:35 PM
To: Harvey, Mary
Subject: Read: Gulf Power Company - Facility #0330045-015-AC-FINAL

Your message

To: PManuel@southernco.com
Subject:

was read on 5/2/2007 3:35 PM.

One Energy Place
Pensacola, Florida 32520

RECEIVED

APR 19 2007

BUREAU OF AIR REGULATION

GULF 
POWER

A SOUTHERN COMPANY

Certified Mail

April 11, 2007

Mr. Jonathan K. Holtom, P.E.
Florida Department of Environmental Protection
Bureau of Air Regulation
2600 Blair Stone Road
Mail Station #5510
Tallahassee, Florida 32399-2400

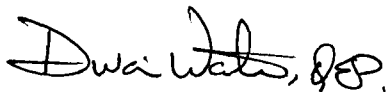
Dear Mr.Holtom:

RE: CRIST ELECTRIC GENERATION FACILITY
DEP File No. 0330045-015-AC
Intent to Issue Crist FGD Construction Permit - Public Notice Affidavit

Attached, please find Gulf Power's proof of publication, i.e., newspaper affidavit regarding the Public Notice of Intent to Issue Draft Crist FGD Construction Permit originally sent to Penny M. Manuel (Gulf Power) on March 28, 2007. An electronic (pdf) version of this affidavit was sent you earlier today.

Please let me know if you have any questions regarding this matter and if you receive any public comments regarding this permit.

Sincerely,



G. Dwain Waters, Q.E.P.
Special Projects and Environmental Assets Coordinator

Cc: Jim Vick, Gulf Power Company
Terry Wright, Gulf Power Company
John Dominey, Gulf Power Company
Rick Bradburn, FDEP, Northwest District

RECEIVED

APR 19 2007

BUREAU OF AIR REGULATION

Published Daily-Pensacola, Escambia County, FL

PROOF OF PUBLICATION

State of Florida

County of Escambia:

Before the undersigned authority personally appeared **ERIC D. EASLEY** who on oath, says that she is a personal representative of the Pensacola News Journal, a daily newspaper published in Escambia County, Florida; that the attached copy of advertisement, being a Legal in the matter of:

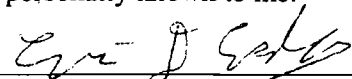
**PUBLIC NOTICE OF INTENT TO ISSUE
AIR PERMIT**

Was published in said newspaper in the issue(s) of:

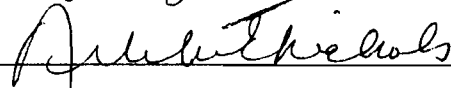
APRIL 4, 2007

Affiant further says that the said Pensacola News Journal is a newspaper published in said Escambia County, Florida, and that the said newspaper has heretofore been published in said Escambia County, Florida, and has been entered as second class matter at the Post Office in said Escambia County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Sworn to and subscribed before me this 4th Day of April, 2007, by **ERIC D. EASLEY** who
Is personally known to me.



Affiant



Notary Public

NIKKI E. NICHOLS
Notary Public-State of FL
Comm. Exp. Aug. 01, 2009
Comm. No. DD 427341

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Bureau of Air Regulation
Florida Department of Environmental Protection
Draft Air Permit No. 0330045-015-AC
Gulf Power Company, Crist Electric Generating Plant
Escambia County, Florida

Applicant: The applicant for this project is Gulf Power Company, One Energy Place, Pensacola, Florida 32520. The applicant's authorized representative and mailing address is: Ms. Penny M. Manuel, Vice President of Power Generation, Gulf Power Company, One Energy Place, Pensacola, Florida 32520.

Facility Location: Gulf Power Company operates the Crist Electric Generating Plant, which is located on Pate Road, off of 10 Mile Road on Governors Bayou in Pensacola, Escambia County, Florida.

Project: The applicant proposes to construct a new wet flue gas desulfurization (WFGD) system for Units 4 - 7. The system will consist of a large scrubber vessel as well as a number of subsystems for transport and processing flue gas exhaust, limestone, gypsum, other solids, and water. A limestone slurry will be injected into the flue gas exhaust to chemically react with sulfur dioxide (SO₂) in the scrubber vessel for removal as gypsum. The WFGD system will be designed to remove approximately 95% of the SO₂ emissions. In addition, the WFGD system is expected to: remove an estimated 50% to 70% of the particulate matter emissions; remove an estimated 95% of the hydrogen chloride and hydrogen fluoride emissions; and capture an estimated 80% of the oxidized mercury. The project to add controls is expected to reduce emissions and requires a minor source air construction permit.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Department of Environmental Protection's Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination regarding this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Tallahassee, Florida 32301. The Permitting Authority's mailing address is: 2600 Blair Stone Road, Mail Station 5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/488-0114.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address and phone number listed above.

Notice of Intent to Issue Air Permit: The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-298, and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Comments: The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of this Public Notice. Written comments must be provided to the Permitting Authority at the above address. Any written comments filed will be made available for public inspection. If written comments received result in a significant change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 days of publication of this Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S. or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address and telephone number of the petitioner; the name address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial rights will be affected by the agency determination; (c) A statement of when and how the petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of the alleged facts related to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Public Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available for this proceeding.

Legal No. 70608

1T

April 4, 2007

Adams, Patty

From: Harvey, Mary
Sent: Friday, March 30, 2007 1:36 PM
To: Holtom, Jonathan; Adams, Patty
Subject: FW: Gulf Power Company - One Energy Place - Facility #0330045-015-AC-DRAFT

From: Bradburn, Rick
Sent: Friday, March 30, 2007 12:00 PM
To: Harvey, Mary
Subject: Read: Gulf Power Company - One Energy Place - Facility #0330045-015-AC-DRAFT

Your message

To: 'Ms. Penny M. Manuel, Gulf Power Company'; 'Mr. G. Dwain Waters, Gulf Power Company'; 'Mr. Tom Davis, ECT'; Bradburn, Rick;
'Mr. Gregg Worley, EPA Region 4'
Cc: Holtom, Jonathan; Adams, Patty; Gibson, Victoria
Subject: Gulf Power Company - One Energy Place - Facility #0330045-015-AC-DRAFT
Sent: 3/30/2007 11:19 AM

was read on 3/30/2007 12:00 PM.

Adams, Patty

From: Harvey, Mary
Sent: Tuesday, April 03, 2007 11:38 AM
To: Adams, Patty
Cc: Holtom, Jonathan
Subject: FW: Gulf Power Company - One Energy Place - Facility #0330045-015-AC-DRAFT

From: Waters, G. Dwain [<mailto:GDWATERS@southernco.com>]
Sent: Tuesday, April 03, 2007 11:16 AM
To: undisclosed-recipients
Subject: Read: Gulf Power Company - One Energy Place - Facility #0330045-015-AC-DRAFT

Your message

To: GDWATERS@southernco.com
Subject:

was read on 4/3/2007 11:16 AM.

Adams, Patty

From: Harvey, Mary
Sent: Monday, April 02, 2007 2:35 PM
To: Mitchell, Bruce; Heron, Teresa; Linero, Alvaro; Arif, Syed; Holtom, Jonathan; Cascio, Tom; Koerner, Jeff; Sheplak, Scott
Cc: Adams, Patty
Subject: FW: Fw: Gulf Power Company - One Energy Place - Facility #0330045-015-AC-DRAFT
Attachments: 0330045-015-AC - DRAFT - TEPD.PDF; 0330045-015-AC - DRAFT Intent.PDF; 0330045-015-AC- DRAFT Appendix.PDF; 0330045-015-AC- DRAFT Permit.PDF; Signature Documents for Facility #0330045-015-AC-DRAFT.pdf

Please read highlighted email.

Thanks,
Mary

-----Original Message-----

From: Forney.Kathleen@epamail.epa.gov [mailto:Forney.Kathleen@epamail.epa.gov]
Sent: Monday, April 02, 2007 1:34 PM
To: Harvey, Mary
Cc: Danois.Gracy@epamail.epa.gov; Little.James@epamail.epa.gov; Worley.Gregg@epamail.epa.gov; Forney.Kathleen@epamail.epa.gov
Subject: Re: Fw: Gulf Power Company - One Energy Place - Facility #0330045-015-AC-DRAFT

Hey Mary,

Can you send these kinds of notices to me (**forney.kathleen@epa.gov**) and to **Jim Little (little.james@epa.gov) instead of Gregg**. That way it will be easier for us to get you a timely reply back and can save Gregg from having to forward them all the time. :-)

Thanks,
Katy

Katy R. Forney
Air Permits Section
EPA - Region 4
61 Forsyth St., SW
Atlanta, GA 30024

Phone: 404-562-9130
Fax: 404-562-9019

Gregg
Worley/R4/USEPA/
US

04/02/2007 01:03
PM

To

James Little/R4/USEPA/US@EPA,
Gracy Danois/R4/USEPA/US@EPA,
Kathleen Forney/R4/USEPA/US@EPA

4/6/2007

Adams, Patty

From: Harvey, Mary
Sent: Tuesday, April 03, 2007 11:38 AM
To: Adams, Patty
Cc: Holtom, Jonathan
Subject: FW: Gulf Power Company - One Energy Place - Facility #0330045-015-AC-DRAFT

From: Waters, G. Dwain [<mailto:GDWATERS@southernco.com>]
Sent: Tuesday, April 03, 2007 11:16 AM
To: undisclosed-recipients
Subject: Read: Gulf Power Company - One Energy Place - Facility #0330045-015-AC-DRAFT

Your message

To: GDWATERS@southernco.com
Subject:

was read on 4/3/2007 11:16 AM.

Adams, Patty

* Intent Signed: 3/30/07

From: Harvey, Mary
Sent: Friday, March 30, 2007 11:33 AM
To: Holtom, Jonathan
Cc: Adams, Patty
Subject: FW: Gulf Power Company - One Energy Place - Facility #0330045-015-AC-DRAFT

From: Tom Davis [mailto:tdavis@ectinc.com]
Sent: Friday, March 30, 2007 11:26 AM
To: Harvey, Mary
Subject: RE: Gulf Power Company - One Energy Place - Facility #0330045-015-AC-DRAFT

From: Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]
Sent: Friday, March 30, 2007 11:19 AM
To: Ms. Penny M. Manuel, Gulf Power Company; Mr. G. Dwain Waters, Gulf Power Company; Mr. Tom Davis, ECT; Bradburn, Rick; Mr. Gregg Worley, EPA Region 4
Cc: Holtom, Jonathan; Adams, Patty; Gibson, Victoria
Subject: Gulf Power Company - One Energy Place - Facility #0330045-015-AC-DRAFT

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site: <http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

Memorandum

Florida Department of Environmental Protection

TO: Trina Vielhauer, Chief - Bureau of Air Regulation
THROUGH: Jeff Koerner, Air Permitting North JK
FROM: Jonathan Holtom, Air Permitting North JH
DATE: 3/27/07
SUBJECT: Draft Air Construction Permit No. 0330045-015-AC
Gulf Power Company, Crist Electric Generating Plant
Wet FGD System

Attached for your review are the following items:

- Intent to Issue AC Permit and Public Notice Package;
- Technical Evaluation and Preliminary Determination;
- Draft AC Permit;
- P.E. Certification;

The P.E. certification briefly summarizes the proposed permit project. The Technical Evaluation and Preliminary Determination provide a detailed description of the project, rationale, and conclusion. Day #74 is May 26th; however, Gulf has stressed that construction is scheduled to begin on May 7th, so they must have a final permit prior to that date to avoid losing over \$100,000 per day. I recommend your approval of the attached Draft Permit for this project.

Attachments



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

P.E. Certification Statement

Permittee:

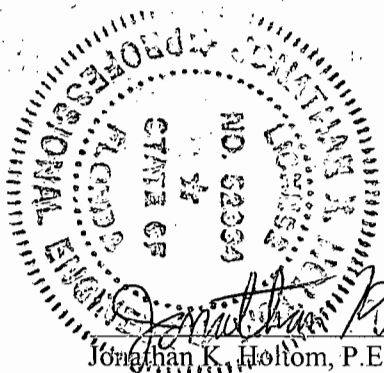
Gulf Power Company
Crist Electric Generating Plant

DRAFT Construction Permit No.: 0330045-015-AC
Facility ID No.: 0330045

Project: Minor Air Construction Permit to Construct a Wet Flue Gas Desulfurization (FGD) System.

The project involves the installation and subsequent operation of a wet FGD for Crist Units 4 - 7. The system will consist of a large scrubber vessel as well as a number of subsystems for transport and processing flue gas exhaust, limestone, gypsum, other solids, and water. All four boiler exhausts will be directed to the single scrubber reactor where the limestone slurry will be injected to chemically react with SO₂ in the scrubber vessel for removal as gypsum. This project also includes the construction of a new common stack for all four units. The existing stacks will remain to be used for periods of scrubber bypass operations.

I HEREBY CERTIFY that the engineering features described in the above referenced application and related additional information submittals, if any, and subject to the proposed permit conditions, provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical, structural, hydrological, and geological features).



Jonathan K. Holtom
Jonathan K. Holtom, P.E.
Registration Number: 0052664

3/28/07
Date

Permitting Authority:

Florida Department of Environmental Protection
Division of Air Resources Management, Bureau of Air Regulation
2600 Blair Stone Road, Mail Station #5505
Tallahassee, Florida 32399-2400
Telephone: 850/488-0114
Fax: 850/921-9533



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

March 28, 2007

Ms. Penny M. Manuel
Vice President, Power Generation
Gulf Power Company
One Energy Place
Pensacola, Florida 32520

Re: Draft Permit No. 0330045-015-AC
Gulf Power Company, Crist Electric Generating Plant
Wet Flue Gas Desulfurization Project for Units 4 - 7

Dear Ms. Manuel:

On October 30, 2006, you submitted an application for an air permit to construct a new wet flue gas desulfurization system for Units 4 - 7 at the Crist Electric Generating Plant, which is located on Pate Road, off of 10 Mile Road on Governors Bayou, Escambia County. Enclosed are the following documents: Technical Evaluation and Preliminary Determination, Draft Permit, Written Notice of Intent to Issue Air Permit, and Public Notice of Intent to Issue Air Permit.

The Technical Evaluation and Preliminary Determination summarizes the Permitting Authority's technical review of the application and provides the rationale for making the preliminary determination to issue a Draft Permit. The proposed Draft Permit includes the specific conditions that regulate the construction of the emissions unit covered by the proposed project. The Written Notice of Intent to Issue Air Permit provides important information regarding: the Permitting Authority's intent to issue an air permit for the proposed project; the requirements for publishing a Public Notice of the Permitting Authority's intent to issue an air permit; the procedures for submitting comments on the Draft Permit; the process for filing a petition for an administrative hearing; and the availability of mediation. The Public Notice of Intent to Issue Air Permit is the actual notice that you must have published in the legal advertisement section of a newspaper of general circulation in the area affected by this project.

If you have any questions, please contact the Project Engineer, Jonathan Holtom, P.E., at 850/921-9531.

Sincerely,

Trina L. Vielhauer, Chief
Bureau of Air Regulation

TLV/jk/jh

Enclosures

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

*In the Matter of an
Application for Air Permit by:*

Gulf Power Company
One Energy Place
Pensacola, Florida 32520

Draft Air Permit No. 0330045-015-AC
Crist Electric Generating Plant
Existing Units 4 - 7
Wet Flue Gas Desulfurization Project
Escambia County, Florida

Authorized Representative:
Ms. Penny M. Manuel, Vice President and SPO

Facility Location: The applicant, Gulf Power Company, operates the Crist Electric Generating Plant, which is located on Pate Road, off of 10 Mile Road on Governors Bayou in Pensacola, Escambia County, Florida.

Project: The applicant proposes to construct a new wet flue gas desulfurization system for Units 4 - 7 at the existing plant. Details of the project are provided in the application and the enclosed Technical Evaluation and Preliminary Determination.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Department of Environmental Protection's Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 S. Magnolia Drive, Tallahassee, Florida, 32301. The Permitting Authority's mailing address is: 2600 Blair Stone Road, Mail Station 5505, Tallahassee, Florida, 32399-2400. The Permitting Authority's telephone number is 850/488-0114.

Notice of Intent to Issue Permit: The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Public Notice: Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed "Public Notice of Intent to Issue Air Permit" (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper used must meet the requirements of Sections 50.011 and 50.031, F.S. in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Permitting Authority at above address or phone number. Pursuant to Rule 62-110.106(5) and (9), F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within seven (7) days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

Comments: The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of fourteen (14) days from the date of publication of the Public Notice. Written comments must be provided to the Permitting Authority at the above address. Any written comments filed will be made available for public inspection. If written comments received result in a significant

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within fourteen (14) days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within fourteen (14) days of publication of the attached Public Notice or within fourteen (14) days of receipt of this Written Notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within fourteen (14) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of the alleged facts related to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief
Bureau of Air Regulation

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Written Notice of Intent to Issue Air Permit package (including the Public Notice, the Technical Evaluation and Preliminary Determination, and the Draft Permit) was sent electronically (with received receipt requested) before the close of business on 3/30/07 to the persons listed below.

Ms. Penny M. Manuel, Gulf Power Company (pmmanuel@southernco.com)

Mr. G. Dwain Waters, Gulf Power Company (gdwaters@southernco.com)

Mr. Tom Davis, ECT (tdavis@ectinc.com)

Mr. Rick Bradburn, NWD (rick.bradburn@dep.state.fl.us)

Mr. Gregg Worley, EPA Region 4 (worley.gregg@epa.gov)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.



(Clerk)

3/30/07
(Date)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Bureau of Air Regulation
Florida Department of Environmental Protection
Draft Air Permit No. 0330045-015-AC
Gulf Power Company, Crist Electric Generating Plant
Escambia County, Florida

Applicant: The applicant for this project is Gulf Power Company, One Energy Place, Pensacola, Florida 32520. The applicant's authorized representative and mailing address is: Ms. Penny M. Manuel, Vice President of Power Generation, Gulf Power Company, One Energy Place, Pensacola, Florida 32520.

Facility Location: Gulf Power Company operates the Crist Electric Generating Plant, which is located on Pate Road, off of 10 Mile Road on Governors Bayou in Pensacola, Escambia County, Florida.

Project: The applicant proposes to construct a new wet flue gas desulfurization (WFGD) system for Units 4 - 7. The system will consist of a large scrubber vessel as well as a number of subsystems for transport and processing flue gas exhaust, limestone, gypsum, other solids, and water. A limestone slurry will be injected into the flue gas exhaust to chemically react with sulfur dioxide (SO₂) in the scrubber vessel for removal as gypsum. The WFGD system will be designed to remove approximately 95% of the SO₂ emissions. In addition, the WFGD system is expected to: remove an estimated 50% to 70% of the particulate matter emissions; remove an estimated 95% of the hydrogen chloride and hydrogen fluoride emissions; and capture an estimated 80% of the oxidized mercury. The project to add controls is expected to reduce emissions and requires a minor source air construction permit.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Department of Environmental Protection's Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination regarding this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Tallahassee, Florida 32301. The Permitting Authority's mailing address is: 2600 Blair Stone Road, Mail Station 5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/488-0114.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address and phone number listed above.

Notice of Intent to Issue Air Permit: The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Comments: The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of this Public Notice. Written comments must be provided to the Permitting Authority at the above address. Any written comments filed will be made available for public inspection. If written comments received result in a significant change to the Draft

(Public Notice to be Published in the Newspaper)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 days of publication of this Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address and telephone number of the petitioner; the name address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial rights will be affected by the agency determination; (c) A statement of when and how the petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of the alleged facts related to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Public Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available for this proceeding.

**TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION**

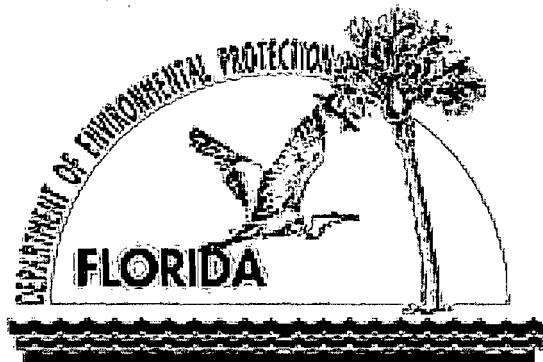
APPLICANT

Gulf Power Company
One Energy Place
Pensacola, Florida 32520

PROJECT

Project No. 0330045-015-AC
Crist Power Plant, Existing Units 4 – 7
Wet Flue Gas Desulfurization Project

Escambia County, Florida



PERMITTING AUTHORITY

Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation
Air Permitting North Section
2600 Blair Stone Road, Mail Station 5505
Tallahassee, Florida 32399-2400

March 28, 2007

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

1. GENERAL INFORMATION

Facility Description

The existing facility consists of four fossil fuel fired steam generators (boilers) and two fly ash silos. Boilers 4 and 5 are Substitution Acid Rain Phase I Units. Boilers 6 and 7 are Acid Rain Phase I Units. All four boilers are subject to the Acid Rain Phase II requirements. Pulverized coal is the primary fuel for boilers 4, 5, 6 and 7. Fuel oil is used as supplemental fuel in all four of the boilers.

Facility Location

Gulf Power Company operates the existing Crist Electric Generating Plant, which is located on Governors Bayou off 10 Mile Road in Pensacola, Escambia County, Florida. This site is in an area currently in attainment with (or designated as unclassifiable for) all air pollutants subject to a National Ambient Air Quality Standard.

Standard Industrial Classification Codes (SIC)

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

Facility Regulatory Categories

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

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.

PSD: The existing facility is a major stationary source of air pollution.

2. PROJECT

Affected Emissions Units

This project addresses the following emissions units:

ID	Emission Unit Description
004	Boiler No. 4 is a Combustion Engineering tangentially fired, dry bottom boiler that began commercial operation on July 1, 1959. It is a Substitution Phase I and a Phase II Acid Rain Unit. Authorized fuels include coal, natural gas, new No. 2 fuel oil and/or on-specification used oil. The permitted capacity is 1,096.7 MMBtu per hour. Existing air pollution control equipment includes hot-side and cold-side electrostatic precipitators, low-NO _x burners, and selective non-catalytic reduction.
005	Boiler No. 5 is a Combustion Engineering tangentially fired, dry bottom boilers that began commercial operation on June 1, 1961. It is a Substitution Phase I and a Phase II Acid Rain Unit. Authorized fuels include coal, natural gas, new No. 2 fuel oil and/or on-specification used oil. The permitted capacity is 1,096.7 MMBtu per hour. Existing air pollution control equipment includes hot-side and cold-side electrostatic precipitators, low-NO _x burners, and selective non-catalytic reduction.
006	Boiler No. 6 is a Foster Wheeler front wall fired, dry bottom boiler that began commercial operation on May 1, 1970. It is a Phase I and Phase II Acid Rain Unit. Authorized fuels include coal, natural gas, new No. 2 fuel oil and/or on-specification used oil. The permitted capacity is 3,704.8 MMBtu per hour. Existing air pollution control equipment includes a cold-side electrostatic precipitator, low-NO _x burners, and selective non-catalytic reduction.
007	Boiler No. 7 is a Foster Wheeler front and rear wall fired, dry bottom boiler that began commercial operation on August 1, 1973. It is a Phase I and Phase II Acid Rain Unit. Authorized fuels include

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

ID	Emission Unit Description
	coal, natural gas, new No. 2 fuel oil and/or on-specification used oil. The permitted capacity is 6,406 MMBtu per hour. Existing air pollution control equipment includes a cold-side electrostatic precipitator, low-NO _x burners, and selective catalytic reduction.

Units 4 and 5 share a common stack that is 450 feet tall with a diameter of 18.0 feet. The combined volumetric flow rate from Units 4 and 5 at permitted capacity is approximately 802,500 acfm with an exit temperature of 290° F. Units 6 and 7 also share a common stack that is 450 feet tall with a diameter of 23.2 feet. The combined volumetric flow rate from Units 6 and 7 at permitted capacity is approximately 2,463,000 acfm with an exit temperature of 320° F. Each stack is equipped with continuous monitors for determining opacity, stack gas flow rates, and ammonia injection rates, and emissions of carbon dioxide (CO₂), nitrogen oxides (NO_x), and sulfur dioxide (SO₂). Based on the current Title V air operation permit, these units are regulated under Rule 62-296.405, F.A.C. (Fossil Fuel Fired Steam Generators > 250 MMBtu/Hour Heat Input). Units 4 and 5 are regulated as Phase I Substitution and Phase II Acid Rain Units. Units 6 and 7 are regulated as Phase I and Phase II Acid Rain Units.

Project Description

The applicant proposes to construct a new wet Flue Gas Desulfurization (FGD) system to control SO₂ emissions from Units 4 - 7. This is accomplished by reacting SO₂ with calcium carbonate (CaCO₃), or limestone, to produce gypsum (CaSO₄·2H₂O). The system will consist of a large scrubber vessel as well as a number of subsystems for transport and processing flue gas exhaust, limestone, gypsum, other solids, and water. All four boiler exhausts will be directed to the single scrubber reactor where the limestone slurry will be injected to chemically react with SO₂ in the scrubber vessel for removal as gypsum. An overall process flow diagram is included in Figure 1.

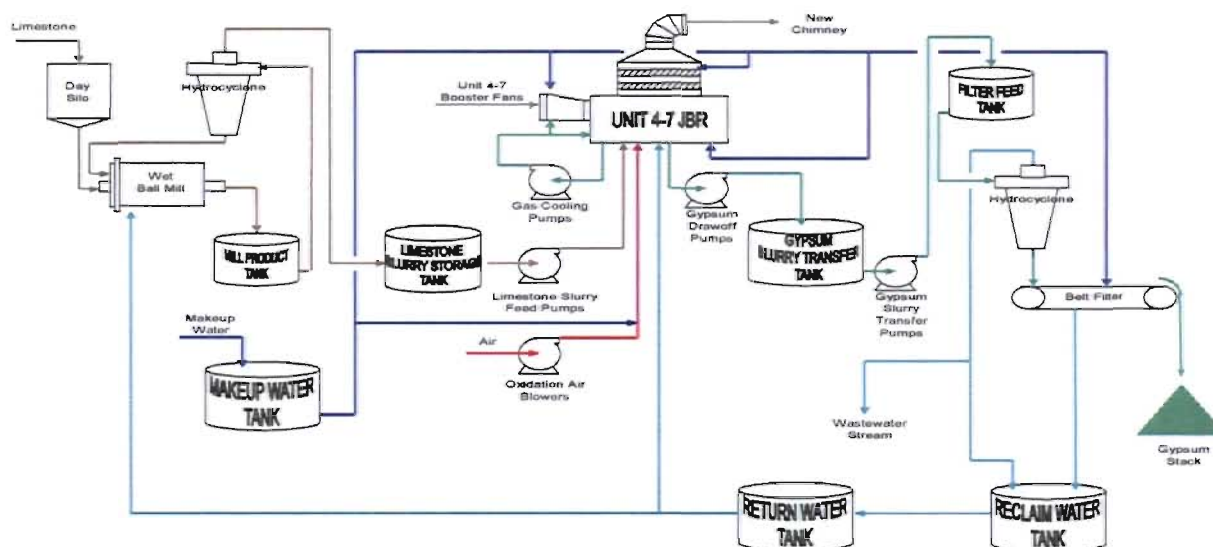


Figure 1. Process Flow Diagram for Wet FGD System

The wet FGD system is based on the Model CT-121 wet FGD process licensed by Southern Company from Chiyoda Corporation. Figure 2 shows this system at the Thoroughbred Plant in Kentucky. The preliminary

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

design is for removal of approximately 95% of the SO₂ emissions. In addition, the wet FGD system is expected to: remove an estimated 50% to 70% of the particulate matter emissions; remove an estimated 95% of the hydrogen chloride and hydrogen fluoride emissions; and capture an estimated 80% of the oxidized mercury.

The project consists of the following work:

- Move existing equipment as necessary.
- Fabricate on-site the new scrubber vessel.
- Construct a new common stack for all four boilers.
- Install ductwork to connect all four units to the new scrubber and new exhaust stack.
- Install dampers to allow bypass of the new scrubber by diverting flue gas to the existing stacks.
- Install new continuous monitors and testing ports.
- Install new limestone unloading, storing and handling system.
- Install new gypsum handling, storing and loading system.



Figure 2. Chiyoda Thoroughbred 121 Jet Bubbler Reactor

The preliminary design for the new common stack is as follows: a height of 490 feet; an exit diameter of 35 feet; an exit temperature of 131° F; and an actual volumetric flow rate of 3,282,000 acfm. The two existing stacks for Units 4/5 and Units 6/7 will remain as bypass stacks for periods of startup, shutdown, and malfunction of Units 4 – 7 or repair of the wet FGD system. Under normal operating conditions, the existing stack for Units 4/5 will be used to provide approximately 100,000 acfm of air to the system to makeup for the pressure loss through the jet bubbler reactor (JBR).

The flue gas subsystem will be used to transport boiler flue gas to the scrubber vessel and then transport the controlled flue gas from the scrubber vessel to atmosphere through the new stack. The subsystem consists of fans, ductwork, dampers, and a stack. Units 4 - 7 will have common flue gas systems with a common flue in a new common stack. Currently, flue gas is drawn from each boiler by the existing induced draft fans located downstream of each electrostatic precipitator.

New ductwork will be installed from the Unit 6 and Unit 7 induced draft fans discharge manifolds to the scrubber vessel and from the scrubber vessel to the new stack. New ductwork will be installed from a tie-in point just upstream of the existing Unit 4/5 stack to a tie-in point with the new Unit 6 and Unit 7 ductwork previously mentioned. Each unit will be equipped with dampers between the induced draft fan discharge, existing stack, and new ductwork to the scrubber vessel so that the wet FGD system can be bypassed to the existing stacks during startup, shutdown, malfunction and scrubber maintenance. The units remain subject to all existing emissions standards and the new common stack will be equipped with continuous monitoring systems for determining opacity, stack gas flow rates, and emissions of CO₂, NO_x and SO₂.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

The function of the limestone handling subsystem will be the receipt, storage, conveyance, pulverization, and sluicing of limestone. This system will be designed to support wet FGD operations on Crist Units 4 - 7. Figure 3 is an illustration of a limestone preparation facility similar to what will be installed at Plant Crist. Dry, crushed limestone will be delivered to Plant Crist by barge. A new barge unloading area will be installed including a new unloader to be used to unload limestone barges. Barges will be unloaded and the limestone conveyed onto an open storage pile. That pile will be managed by tractors. As necessary limestone will be reclaimed from the pile through hoppers and conveyed into two closed silos (each silo will be dedicated reserve for one ball mill). Two ball mill grinding circuits will be provided to pulverize the limestone into slurry. Space will be designated for a third circuit with a silo should the units require additional capacity. Water will be provided to the circuits from the return water subsystem. Limestone slurry will be stored in two large limestone slurry storage tanks. Via pumps, valves, piping, instrumentation and etc., the limestone will be transferred to the scrubber vessel from the storage tanks. Fugitive particulate matter will be managed in a manner to minimize emissions.



Figure 3. Example Limestone Preparation Facility

The gypsum handling subsystem will be able to transport, store, dewater, and load for shipment the gypsum produced by the scrubber vessel. The fundamental equipment will include tanks, pumps, piping, valves, instrumentation, hydrocyclones, vacuum filters, and conveyors. There will be two vacuum filters with accessories to serve units 4 - 7. Space will be designated for a third filter to process gypsum produced should the units require additional capacity. Figure 4 is an illustration of a gypsum dewatering system similar to what will be installed at Plant Crist. The scrubber vessel will be equipped with gypsum draw-off pumps to remove slurry from the vessel at such a rate to control the suspended solids concentration in the JBR reservoir. These pumps will deliver that slurry stream to the gypsum slurry transfer tank. Units 4 - 7 will share a single gypsum transfer tank located near the scrubber vessel. Gypsum transfer pumps and associated pipeline components will transport the slurry to the gypsum dewatering area, to the filter feed tank and then on to the gypsum dewatering hydrocyclones. These hydrocyclones will process the slurry into a dilute solids overflow stream and a concentrated solids underflow stream. The dilute suspended solids in the overflow stream will include most of the ash particles captured by the scrubber vessel along with some limestone and gypsum particles. The overflow stream will be emptied either into the reclaim water tank for recycle back to the process or will be removed from the system to regulate chlorides in the system. The hydrocyclone

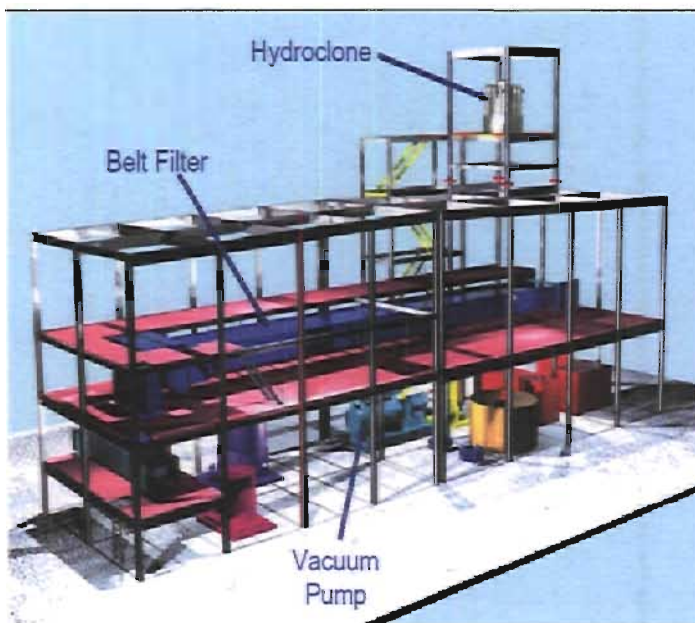


Figure 4. Example Gypsum Dewatering System

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

underflow stream will empty onto a vacuum filter, where it will be washed and dewatered to the consistency of a cake. The water removed from the slurry will be transported by the vacuum filter accessory equipment to the reclaim water tank of the return water subsystem. The gypsum cake will be transferred to conveyors for transport to either covered storage for market quality gypsum or open storage for off-quality gypsum. Market quality gypsum will ultimately be loaded into barges for shipment via a set of conveyors and other material handling equipment. Any off-quality gypsum will be transferred from its storage area to the Plant Crist disposal area.

Reviewing and Process Schedule

10/30/06: Received application for Pollution Controls Project.

11/29/06: Requested additional information.

03/13/07: Received additional information.

03/16/07: Received certification of authorized representative and professional engineer; complete.

Project Emissions

The following table summarizes the applicant's estimated emission impacts due to the scrubber project.

Pollutant	Baseline Annual Emissions (TPY)	Future Projected Annual Emissions (TPY)	Change (TPY)	PSD Threshold (TPY)	PSD Review Required
SO ₂	37,076.7	5,532.1	-31,544.6	40	No
PM	1,012.75	942.45	-70.3	25	No
PM ₁₀	581.49	524.75	-56.74	15	No

3. DEPARTMENT'S REVIEW

Wet FGD System

The proposed project is based on the design and operation of a wet FGD system, which is conventional air pollution control equipment for reducing SO₂ emissions. This type of system is operating successfully on numerous coal-fired utility boilers throughout the world. However, the Department acknowledges that the designs presented in the application are based on the information that was available at the time of application. Because the scrubber is being fabricated on-site, the final design and specifications could change. The draft permit requires Gulf Power Company to provide updates regarding the final design specifications and any major changes made to the final design specifications during the actual construction phase.

Material Handling

The wet FGD system requires limestone for proper operation of the scrubber. As such, a new limestone unloading, storage, processing and handling system will be required to be built. Through the process, the limestone is converted to gypsum, which will require a new handling system, as well. It is Gulf Power's intent to sell the gypsum that is produced. The gypsum will be removed from the plant by being loaded onto barges. During the handling of the limestone and the gypsum, there is a potential for fugitive particulate matter emissions, especially during the loading of the limestone silos. To prevent particulate matter emissions, the silos shall be fitted with baghouses and the installed bags shall be capable of meeting a design specification of 0.01 grains of particulate matter emissions per dry standard cubic feet of air flow through the baghouses. All other points of fugitive particulate matter emissions shall be designed and maintained so as to keep fugitive emissions to a minimum by enclosing, confining, or wetting (as necessary).

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Air Quality Analysis

In 2003, the Department became aware of a 24-hour SO₂ Ambient Air Quality Standards (AAQS) issue because of another applicant's modeling efforts. The Department then required Gulf Power Company to conduct an air quality modeling analysis for the Crist Electric Generating Plant. The purpose of the modeling effort was to address potential problems with the AAQS for the 24-hour SO₂ impacts resulting from the existing permitted emissions standard of 5.9 lb/MMBtu. At that time, the accepted guideline model was ISCST3, which was used to conduct the analysis. Based on the modeling results, Gulf Power Company requested and was given a permitted SO₂ emissions standard of 2.4 lb/MMBtu based on a 24-hour average.

With the proposed wet FGD project, Gulf Power Company is proposing to substantially reduce SO₂ emissions from all four boilers. The project includes a new taller stack to meet the Good Engineering Practice (GEP) stack height for the project and to prevent downwash. However, part of the project requires increasing the effective heights of some of the boiler buildings, which will affect downwash from the existing stacks. Once the scrubber project is complete, the existing stacks will be used only when bypassing the wet FGD system. Bypass may occur for: startup and shutdown of the boilers; for malfunction of the boilers or wet FGD system; or, when the wet FGD system is down for repair or scheduled maintenance.

The Department did not require modeling of the proposed new stacks because of the substantial SO₂ reductions from the project. However, to determine the significance of the downwash characteristics, the Department requested Gulf Power Company to model the change in SO₂ impacts between the existing stacks and the proposed use as bypass stacks with the new building configurations. Since NO_x emissions have not been modeled within the last ten years, the Department also requested Gulf Power Company to conduct AAQS modeling analysis for NO_x impacts. Gulf Power Company conducted the modeling analysis using the new guideline model, AERMOD, with meteorological data supplied by the Department for the Pensacola Area (2001 to 2005). Results of the analysis showed no significant impact for SO₂, so no impact on the AAQS is predicted. Also, the analysis indicated that maximum predicted NO_x impacts from the Crist plant and all other NO_x sources in the area are well below the AAQS.

6.0 CONCLUSION

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. Jonathan K Holtom, P.E., is the project engineer responsible for reviewing the application and drafting the permit. Cleve Holladay is the staff meteorologist who reviewed the supplemental air quality analysis. Additional details of this analysis may be obtained by contacting the project engineer at the Department's Bureau of Air Regulation at Mail Station #5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

DRAFT PERMIT

PERMITTEE

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

Air Permit No. 0330045-015-AC Crist Electric Generating Plant Existing Units 4 - 7 Wet FGD Project Permit Expires: December 31, 2010
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Authorized Representative:

Ms. Penny Manuel, Vice President and SPO

PROJECT AND LOCATION

This permit authorizes the construction of a new wet flue gas desulfurization system (FGD) for Units 4 - 7 at the existing Crist Electric Generating Station (SIC No. 4911), 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

The applicant elects to install a flue gas desulfurization system to provide full flexibility in implementing the federal cap and trade program for nitrogen oxides under the Clean Air Interstate Rule (CAIR). Because CAIR affords a regulated facility the flexibility to evaluate market conditions to determine whether it will install controls, operate existing controls, or purchase allowances generated by other plants, the Department of Environmental Protection (Department) does not require the installation of this equipment or its operation.

This air pollution construction permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, Florida Administrative Code (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 of Environmental Protection (Department). This air construction permit supplements all other valid air construction and operation permits.

CONTENTS

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

(DRAFT)

Joseph Kahn, Director
Division of Air Resource Management

(Date)

SECTION 1. GENERAL INFORMATION (DRAFT)

FACILITY AND PROJECT DESCRIPTION

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

ID	Emission Unit Description
004	Boiler No. 4 (Substitution Phase I and Phase II Acid Rain Unit)
005	Boiler No. 5 (Substitution Phase I and Phase II Acid Rain Unit)
006	Boiler No. 6 (Phase I and Phase II Acid Rain Unit)
007	Boiler No. 7 (Phase I and Phase II Acid Rain Unit)

The permittee will construct a new wet FGD system for Units 4 - 7.

REGULATORY CLASSIFICATION

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

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.

PSD: The existing facility is a major stationary source of air pollution.

RELEVANT DOCUMENTS

The following relevant documents are not a part of this permit, but helped form the basis for this permitting action: the permit application and additional information received to make it complete; the Draft Permit; the Department's Technical Evaluation and Preliminary Determination; the Written Notice of Intent to Issue Air Permit; the Public Notice of Intent to Issue Air Permit; the publication in a newspaper of general circulation; comments on the Draft Permit package; and the Department's Final Determination.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

1. Permitting Authority: The Permitting Authority for this project is the Bureau of Air Regulation in the Division of Air Resource Management of the Department. The mailing address for the Bureau of Air Regulation is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida, 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Air Resource Section of the Department's Northwest District Office. The mailing address for the Northwest District office is: 160 Governmental Center, Suite 308, Pensacola, Florida, 32502-5794. The phone number is: (850) 595-8300.
3. Appendices: The following Appendices are attached as part of this permit: Appendix CF (Citation Format) and Appendix GC (General Conditions); 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. 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. The application shall be submitted to the Bureau of Air Regulation, with copies to each Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. Wet FGD System for Units 4 – 7

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

ID	Emission Unit Description
004	Boiler No. 4 is a Combustion Engineering tangentially fired, dry bottom boiler that began commercial operation on July 1, 1959. It is a Substitution Phase I and Phase II Acid Rain Unit. Authorized fuels include coal, natural gas, new No. 2 fuel oil and/or on-specification used oil. The permitted capacity is 1,096.7 MMBtu per hour. Existing air pollution control equipment includes hot-side and cold-side electrostatic precipitators, low-NO _x burners, and selective non-catalytic reduction.
005	Boiler No. 5 is a Combustion Engineering tangentially fired, dry bottom boilers that began commercial operation on June 1, 1961. It is a Substitution Phase I and Phase II Acid Rain Unit. Authorized fuels include coal, natural gas, new No. 2 fuel oil and/or on-specification used oil. The permitted capacity is 1,096.7 MMBtu per hour. Existing air pollution control equipment includes hot-side and cold-side electrostatic precipitators, low-NO _x burners, and selective non-catalytic reduction.
006	Boiler No. 6 is a Foster Wheeler front wall fired, dry bottom boiler that began commercial operation on May 1, 1970. It is a Phase I and Phase II Acid Rain Unit. Authorized fuels include coal, natural gas, new No. 2 fuel oil and/or on-specification used oil. The permitted capacity is 3,704.8 MMBtu per hour. Existing air pollution control equipment includes a cold-side electrostatic precipitator, low-NO _x burners, and selective non-catalytic reduction.
007	Boiler No. 7 is a Foster Wheeler front and rear wall fired, dry bottom boiler that began commercial operation on August 1, 1973. It is a Phase I and Phase II Acid Rain Unit. Authorized fuels include coal, natural gas, new No. 2 fuel oil and/or on-specification used oil. The permitted capacity is 6,406 MMBtu per hour. Existing air pollution control equipment includes a cold-side electrostatic precipitator, low-NO _x burners, and selective catalytic reduction.

Units 4 and 5 share a common stack that is 450 feet tall with a diameter of 18.0 feet. The combined volumetric flow rate from Units 4 and 5 at permitted at capacity is approximately 802,500 acfm with an exit temperature of 290° F. Units 6 and 7 also share a common stack that is 450 feet tall with a diameter of 23.2 feet. The combined volumetric flow rate from Units 6 and 7 at permitted at capacity is approximately 2,463,000 acfm with an exit temperature of 320° F. Each stack is equipped with continuous monitors for determining opacity, stack gas flow rates, and ammonia injection rates, and emissions of carbon dioxide (CO₂), nitrogen oxides (NO_x), and sulfur dioxide (SO₂).

{Permitting Note: Based on the current Title V air operation permit, these units are regulated under Rule 62-296.405, F.A.C. (Fossil Fuel Fired Steam Generators > 250 MMBtu/Hour Heat Input). Units 4 and 5 are regulated as Phase I Substitution and Phase II Acid Rain Units. Units 6 and 7 are regulated as Phase I and Phase II Acid Rain Units.}

PREVIOUS APPLICABLE REQUIREMENTS

1. Other Permits: The conditions of this permit supplement all previously issued air construction and operation permits for these emissions units. 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. Wet Flue Gas Desulfurization (FGD) System: The permittee is authorized construct a new wet FGD system to control SO₂ emissions from Units 4 – 7. The system will consist of a large scrubber vessel as well as a number of subsystems for transport and processing flue gas exhaust, limestone, gypsum, other solids, and water. All four boiler exhausts will be directed to the single scrubber reactor where a limestone slurry will

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. Wet FGD System for Units 4 – 7

be injected to chemically react with sulfur dioxide (SO₂) in the scrubber vessel for removal as gypsum. The wet FGD system shall be installed, tuned, operated, and maintained as described in the application, approved drawings, plans, and other documents on file with the Department. [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]

{Permitting Note: The wet FGD system is based on the Model CT-121 wet FGD process licensed by Southern Company from Chiyoda Corporation. The preliminary design is for removal of approximately 95% of the SO₂ emissions. In addition, the wet FGD system is expected to: remove an estimated 50% to 70% of the particulate matter emissions; remove an estimated 95% of the hydrogen chloride and hydrogen fluoride emissions; and capture an estimated 80% of the oxidized mercury.}

3. **Flue Gas Handling:** The permittee is authorized to construct a new exhaust stack to serve as the common stack for Units 4 - 7 under normal conditions with the wet FGD system in operation. The preliminary design for the new common stack is for the following characteristics: a height of 490 feet; an exit diameter of 35 feet; an exit temperature of 131° F; and an actual volumetric flow rate of 3,282,000 acfm. The two existing stacks for Units 4/5 and Units 6/7 will remain as bypass stacks for: periods of startup and shutdown of Units 4 – 7; malfunction of Units 4 – 7 (any or all) or the wet FGD system; or, repair or scheduled maintenance of the wet FGD system. Under normal operating conditions, the existing stack for Units 4/5 will be used to provide makeup air to the system. [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]
4. **Limestone Handling:** The permittee is authorized to construct a new limestone handling system for the receipt, storage, conveyance, pulverization, and sluicing of limestone. The system will consist of a barge unloader, an open storage pile, feed hoppers, two closed silos, two ball mills, two limestone slurry storage tanks, and associated pumps, valves, instrumentation and piping. The permittee shall install a baghouse on each silo designed to meet a particulate matter emissions specification of 0.01 grains per dry standard cubic foot. New and replacement bags shall be selected that meet this equipment specification. To the extent practicable, limestone conveyors shall be enclosed and crushing equipment located inside buildings. The remainder of the limestone handling system shall be designed, maintained and operated to minimize emissions of fugitive particulate matter by confining, enclosing or wetting (as necessary). [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]
5. **Gypsum Handling:** The permittee is authorized to construct a new gypsum handling system to transport, store, dewater, and load for shipment the gypsum produced by the scrubber vessel. The equipment will include tanks, pumps, piping, valves, instrumentation, hydrocyclones, vacuum filters, and conveyors. There will be two vacuum filters with accessories to serve units 4 - 7. To the extent practicable, conveyors transporting dewatered gypsum shall be enclosed. The remainder of the gypsum handling system shall be designed, maintained and operated to minimize emissions of fugitive particulate matter by confining, enclosing or wetting (as necessary). [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]
6. **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. [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]

EMISSIONS LIMITING AND PERFORMANCE STANDARDS

7. **Emissions Standards and Limitations:** This permit does not alter any previous emissions standards or limitations on permitted capacities such as heat input rates, fuel consumption, or hours of operation. It does not authorize any additional fuels or other such methods of operation. The permittee shall comply with all applicable emissions standards and limitations specified in any valid air construction and operation permits. [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. Wet FGD System for Units 4 – 7

8. Visible Emissions: Visible emissions from the limestone storage silo baghouses shall not exceed 5% opacity. Initial and annual tests shall be conducted in accordance with EPA Method 9 and the test conditions in Appendix SC of this permit. [Rule 62-4.070, F.A.C.]
9. Circumvention: No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly. Operation of the wet FGD system is not required by this permit. [Rule 62-210.650, F.A.C.]

BYPASS OPERATION

10. Wet FGD Bypass: In accordance with the manufacturer's recommended procedures, the permittee intends to bypass the wet FGD system under the following conditions.
 - a. During startup or shutdown of Units 4 – 7, or malfunction of any of the Units 4 – 7 or the wet FGD system, the wet FGD system may be bypassed as necessary to prevent contaminants due to incomplete combustion from entering the scrubber and/or being entrained in the gypsum. Such periods of bypass are estimated to be less than 96 hours per year.
 - b. The wet FGD system may be bypassed to perform scrubber maintenance and/or repair. Periods of bypass due to scrubber maintenance and repair are estimated to be less than 360 hours per year.

Periods of bypass operations shall be documented as specified in Condition 12, below.

[Application No. 0330045-015-AC; Design; Rules 62-4.070, F.A.C.]

CONTINUOUS MONITORING REQUIREMENTS

11. Continuous Monitoring: Existing Units 4 - 7 are subject to the federal Acid Rain monitoring requirements for opacity, stack gas flow rates, and emissions of CO₂, NO_x and SO₂. The permittee shall install, calibrate, operate and maintain continuous emissions monitoring systems in the new common stack to monitor and record the stack gas flow rate and emissions of CO₂, NO_x and SO₂. The new equipment shall be certified within 60 days of startup of the new wet FGD system. If the existing COMS located in the ductwork of each unit are able to record opacity during periods of normal and bypass operation, the existing COMS may be retained; otherwise, a new COMS shall be installed in the common scrubber stack. Unless or until an alternate sampling procedure is approved by the Department, the existing monitoring systems shall be maintained and used to demonstrate compliance with all existing emissions standards when operating in the bypass mode. [Application No. 0330045-015-AC; Design; Rules 62-4.070, F.A.C. & 62-214, F.A.C.]

RECORDS AND REPORTS

12. Project Schedule: This construction project is scheduled to be completed and operation of the new wet FGD system commenced by December 31, 2009. The permittee shall update the Department of any change to this schedule. In addition, the permittee shall notify the Department upon completion of construction of the wet FGD system. [Application No. 0330045-015-AC; Design; Rule 62-4.070, F.A.C.]
13. Scrubber Bypass: For each period of scrubber bypass due to planned maintenance or repair, the permittee shall notify the Compliance Authority in advance by email, fax, or phone with the following information: the purpose of the wet FGD bypass, the expected dates of wet FGD bypass, and the expected duration of wet FGD bypass. During all such bypass periods, each unit shall continue to comply with the current permit standards and conditions related to excess emissions. No advance notice is required for scrubber bypass due to startup or shutdown of any of Units 4 - 7; however, the permittee shall record and maintain on-site records of all scrubber bypasses. [Rule 62-4.070(3), F.A.C.]

SECTION 4. APPENDICES

CONTENTS

- Appendix CF. Citation Format
- Appendix GC. General Conditions
- Appendix SC. Standard Conditions

SECTION 4. APPENDIX CF
CITATION FORMATS

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

SECTION 4. APPENDIX GC

GENERAL CONDITIONS

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

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

{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. **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.]
3. **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.]
4. **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.]
5. **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.]
6. **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.]
7. **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

8. **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.]
9. **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 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

SECTION 4. APPENDIX SC
STANDARD CONDITIONS

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.]

10. **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.]
11. **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.]

12. **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.]

13. **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.
14. **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.]
15. **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.]
16. **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:
- 1. The type, location, and designation of the emissions unit tested.
 - 2. The facility at which the emissions unit is located.

SECTION 4. APPENDIX SC
STANDARD CONDITIONS

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

17. 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.]
18. 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.]

RECEIVED

MAR 16 2007

BUREAU OF AIR REGULATION



Certified Mail

March 12, 2007

Jonathan Holtom, P.E.
Florida Department of Environmental Protection
Division of Air Resources Management
2600 Blair Stone Road
Mail Station #5510
Tallahassee, Florida 32399-2400

Dear Mr. Holtom:

RE: CRIST ELECTRIC GENERATING PLANT
ADDITIONAL INFORMATION RESPONSE
FGD CONSTRUCTION PERMIT APPLICATION
File No: 0330045-015-AC

Gulf Power has completed the tasks requested in FDEP's letter dated November 29, 2006 regarding additional information for the Crist Flue Gas Desulfurization (FGD) project. In addition, we have several other items discussed during project conference calls over the last several months that we have included in today's submission. A certification by the Responsible Official is attached regarding Gulf's submission of the Crist FGD request for additional information.

Item #1 requested Gulf to complete "AERMod" air emissions modeling to demonstrate project impacts for SO₂ and NO_x during proposed bypass scrubber operations at Plant Crist. The results are summarized in "Attachment 1". Gulf's AERMod files for Plant Crist were previously electronically submitted to the Department on March 5, 2007 for review. Pursuant to the initial review by the Department and subsequent discussions on March 8, 2007, Gulf modified its modeling protocol to determine pre and post impacts due to the project. Our modeling results reveal that the Crist FGD project doesn't significantly impact ambient air quality.

Item #2 requested Gulf to confirm that the new proposed scrubber stack would be built to at least the Good Engineering Practice (GEP) stack height. The original GEP analysis included in the Crist FGD Construction Permit Application was based on the existing structures at Plant Crist. That analysis resulted in a GEP of 487 feet. Gulf's FAA application of 490 feet was based on this analysis and Gulf received a "Determination Of No Hazard To Air Navigation" on January 9, 2007. The FAA Determination Letter is enclosed as "Attachment 2".

Mr. Jonathan Holtom, P.E.

March 12, 2007

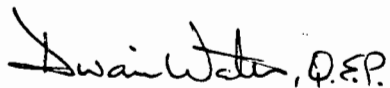
Page 2

Gulf has several additional items of submission for the Department's review. "Attachment 3" is a summary of Volatile Organic Compound (VOC) emissions anticipated during the on site fiberglass spinning process for the scrubber vessel. These emissions will be temporary during the construction of the scrubber and will utilize a 50% vapor suppressant process. Gulf believes these emissions will have a minimum impact on local air quality.

Finally, Gulf has developed a Crist Continuous Emission Monitoring Proposal regarding how the Company plans on meeting Federal and State monitoring requirements associated with the Crist FGD scrubber project. Gulf's monitoring proposal is enclosed as "Attachment 4". We have electronically routed this proposal to Sandra Veazey (FDEP – Bureau of Air Monitoring and Mobile Sources) for review as an alternative monitoring protocol.

Gulf Power's schedule to begin construction of this project is May 7, 2007. We appreciate your efforts to work with us regarding the startup of this emissions control system. Please call me regarding any additional questions or concerns.

Sincerely,



G. Dwain Waters, Q.E.P.

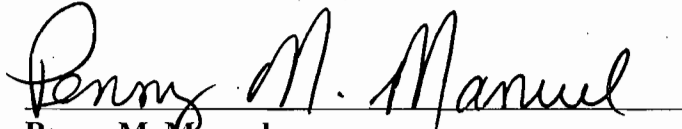
Special Projects and Environmental Assets Coordinator

cc: w/att: Jeff Koerner, FDEP – Tallahassee Office
 Jim Vick, Gulf Power Company
 Wright, Terry, Gulf Power Company
 John Dominey, Gulf Power Company
 Greg Terry, Gulf Power Company
 David Hollinger, Southern Company
 Jay Weston, Gulf Power Company
 Tom Davis, ECT
 Angela Morrison Uhland, Hopping, Green & Sams
 Mr. Rick Bradburn, FDEP Northwest District Office, Pensacola, Florida

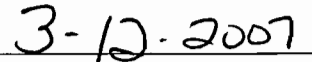
**GULF POWER RESPONSE TO FDEP'S REQUEST FOR
ADDITIONAL INFORMATION FOR CRIST FGD PROJECT
CERTIFICATION BY RESPONSIBLE OFFICIAL**

"I, the undersigned, am the responsible official, as defined in Chapter 62-210.200, F.A.C., for the Title V source for which this information is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in Gulf's response to FDEP's request for additional information for the Crist FGD project is true, accurate and complete."

Responsible Official Signature:



**Penny M. Manuel
Vice-President & Senior Production Officer**


Date:

Pre & Post Crist FGD Project Ambient Air Significant Impact Level (SIL) Evaluation

Table 1. Plant Crist - AERMOD Modeling Results

A. Annual NO₂ Impacts

Source	Maximum Annual NO ₂ Impact (µg/m ³)				
	2001	2002	2003	2004	2005
Gulf Plant Crist - Net Change	0.0	0.0	0.0	0.0	0.0
PSD SIL	1	1	1	1	1
Exceed FSD SIL (Y/N)	N	N	N	N	N

B. Annual SO₂ Impacts

Source	Maximum Annual SO ₂ Impact (µg/m ³)				
	2001	2002	2003	2004	2005
Gulf Plant Crist - Net Change	0.0	0.0	0.0	0.0	0.0
PSD SIL	1	1	1	1	1
Exceed FSD SIL (Y/N)	N	N	N	N	N

C. 3-Hour SO₂ Impacts

Source	Maximum 3-Hour SO ₂ Impact (µg/m ³)				
	2001	2002	2003	2004	2005
Gulf Plant Crist - Net Change	1.4	2.7	3.1	5.3	12.7
PSD SIL	25	25	25	25	25
Exceed FSD SIL (Y/N)	N	N	N	N	N

D. 24-Hour SO₂ Impacts

Source	Maximum 24-Hour SO ₂ Impact (µg/m ³)				
	2001	2002	2003	2004	2005
Gulf Plant Crist - Net Change	0.03	2.4	0.04	0.08	0.23
PSD SIL	5	5	5	5	5
Exceed FSD SIL (Y/N)	N	N	N	N	N

¹ Net Change - Change in impacts from Plant Crist Units 4 - 7 before and after installation of the flue gas desulfurization (FGD) control system.

Source: ECT, 2007.



Federal Aviation Administration
 Air Traffic Airspace Branch, ASW-520
 2601 Meacham Blvd.
 Fort Worth, TX 76137-0520

Aeronautical Study N
 2006-ASO-6794-0E

Issued Date: 01/09/2007

Glenn Dwain Waters
 Gulf Power
 One Energy place
 Pensacola, FL 32520-0329

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has completed an aeronautical study under the provisions of 49 U.S.C., Section 44718 and, if applicable, Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: STACK
 Location: Pensacola, FL
 Latitude: 30-34-.34 N NAD 83
 Longitude: 87-13-36.50 W
 Heights: 490 feet above ground level (AGL)
 508 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory Circular 70/7460-1 AC 70/7460-1K Change 1, Obstruction Marking and Lighting, 24-hr med-strobes - Chapters 4, 6 (MIWOL), & 12.

It is required that the enclosed FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

At least 10 days prior to start of construction
 (7460-2, Part I)

Within 5 days after the construction reaches its greatest height
 (7460-2, Part II)

While the structure does not constitute a hazard to air navigation, it would be located within or near a military training area and/or route.

This determination expires on 07/9/2008 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION

MUST BE POSTMARKED OR DELIVERED TO THIS OFFICE AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission if the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (404)305-5592. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2006-ASO-6794-OE.

Signature Control No: 492700-519398

(DNE)

Earl Newalu
Specialist

7460-2 Attached

CRIST VOC EMISSIONS FROM FGD CONSTRUCTION PROCESS

Note- no manual (hand) layup resin usage data given

LAYUP

Layup Process	Maximum Resin Usage for Project	Emission Factor* - 40 CFR Part 63 Subpart WWWW (lbs emitted/ton resin applied)	Styrene (HAP) Emissions Estimate
Filament Winding	106.0 tpy 600 lbs/hr 0.3 ton/hr	114.8 114.8	6.1 tpy 34.4 lbs/hr
Non-Atomized Mechanical	64.0 tpy 400 lbs/hr 0.2 ton/hr	152.1 152.1	4.9 tpy 30.4 lbs/hr
Manual	0.0 tpy 100 lbs/hr 0.05 ton/hr	105.1 105.1	0.0 tpy 5.3 lbs/hr
Summary:	Maximum Resin Usage: 170.0 tpy 1,100 lbs/hr	Potential Styrene Emissions: 11.0 tpy 70.1 lbs/hr 8.8 g/s	
*Emission Factor Basis: Hetron 922- 43% HAP content resin, non-atomized spray, and 50% vapor suppressant effectiveness.			

DBE SOLVENT

Maximum Gallons Used	Units	Density (lbs/gal.)	VOC Emissions Estimate (Assume 20% of solvent used is emitted to atmosphere)	Units
5,280	gal/yr	9.1	4.8048	tons/yr
1.4	gal/hr	9.1	2.548	lbs/hr

TOTAL VOC

Summary VOC Total Project:	Maximum Potential Emissions
	15.8 tpy 72.7 lbs/hr

PLANT CRIST PROPOSED EMISSIONS MONITORING PLAN

January 29, 2007

Background: Plant Crist faces major changes in operations due to forthcoming installation of SO₂, Hg and NO_x control systems due to Clean Air Interstate Rule (CAIR) and the Clean Air Mercury Rule (CAMR). These systems are earmarked for startup in 2009 and 2010. Accordingly, monitoring locations and methods of monitoring emissions will change. In addition, there is a great deal of uncertainty regarding how well new mercury monitoring technologies will work and what the certification & quality assurance methods will be for these systems. The purpose of Crist Emissions Monitoring Plan is to formulate a monitoring strategy to meet the current and future compliance requirements of federal and state air regulations.

Monitoring Issues: Emission compliance monitoring at Plant Crist can be divided into two categories: State and Federal. Each has different objectives and reporting requirements. Gulf Power believes there is some flexibility in State requirements due to the new plant configuration and corresponding operational changes. Whereas, Federal emission monitoring requirements for allowance accounting for the Acid Rain, CAIR and CAMR programs are not flexible. Below are general discussions of each category as we believe they apply to Plant Crist:

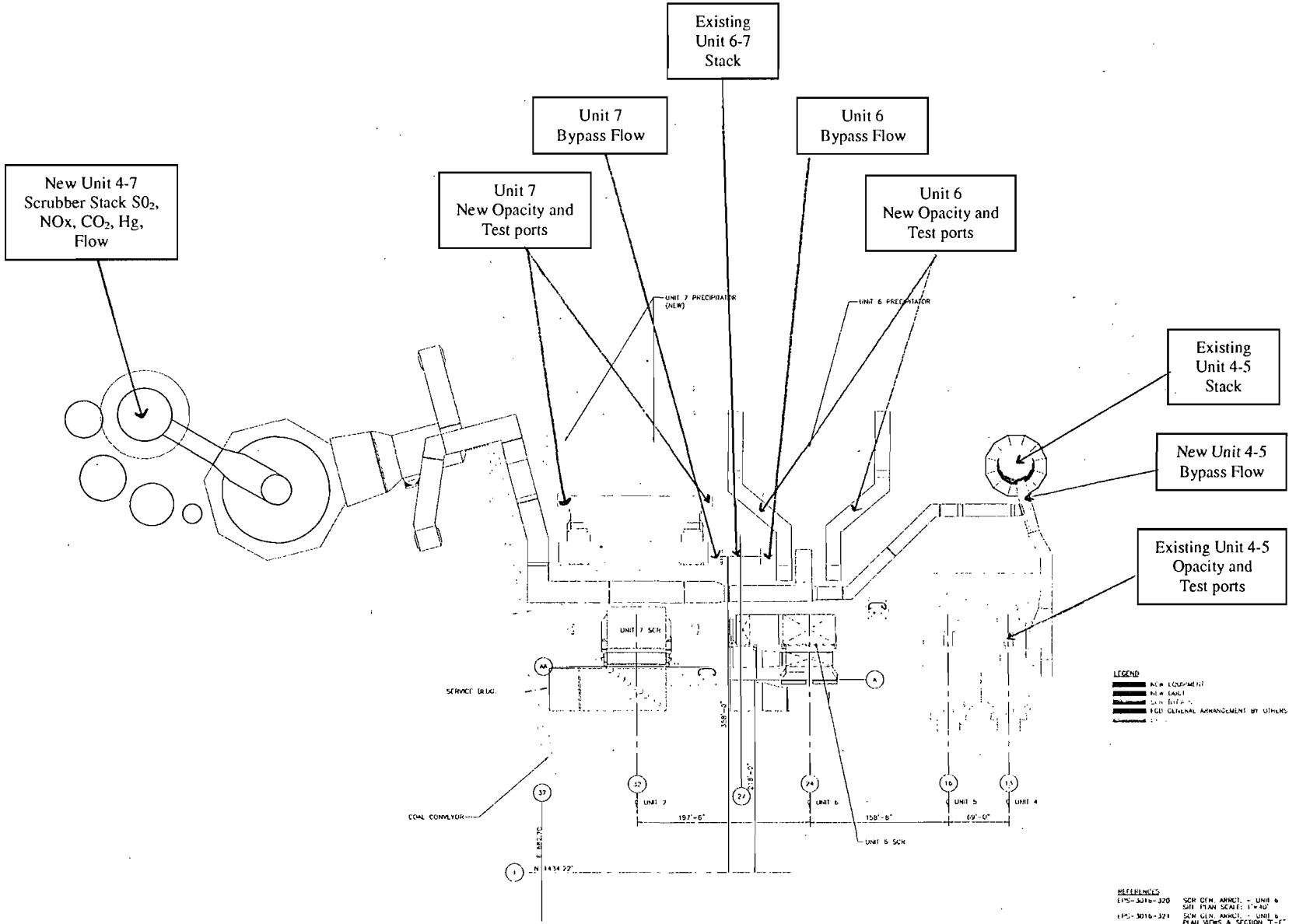
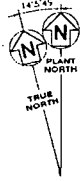
- Federal Monitoring Requirements: The Acid Rain, CAIR and CAMR emission monitoring programs are governed under 40 CFR Part 75 regulations. These regulations require hourly accounting for sulfur dioxide, nitrogen oxides, carbon dioxide, mercury and heat input (through flue gas flow). Specific procedures are used for certification, quality assurance and missing data routines. Plant Crist currently meets these requirements on a unit by unit basis monitoring emissions in the unit's flue gas duct work before being discharged through the stacks. The future Crist configuration includes additional NO_x control for Crist Unit 6 and a single flue gas desulfurization SO₂ (scrubber) system with a new stack for all of the Crist units. The new stack will be the primary monitoring location for SO₂, NO_x, CO₂, Hg and heat input (flow). The existing stacks will remain as "by-pass" stacks for startup, shutdown, malfunction and for scrubber & SCR maintenance with restricted operational periods. For "by-pass" operations, we believe that Crist can utilize Part 75 "missing data" procedures for SO₂, NO_x, CO₂ and Hg parameters. This strategy will, however, penalize the Company in allowance accounting due to the overestimation of emissions. Additionally, it would be virtually impossible to schedule quarterly and annual quality assurance tests to meet the requirements under Part 75 for a "by-pass" CEM system. In fact, Gulf could be forced to operate the units in the "by-pass" mode unnecessarily in order to maintain monitor certification if "missing data" procedures aren't used. This action would disrupt plant operation and add unnecessary pollution to the environment.

- State Monitoring Requirements: Florida emission monitoring permit conditions for Plant Crist include a mixture of State Implementation Plan (SIP), Title V, and voluntary requirements. These regulations require SO₂ and NO_x data on an hourly basis and opacity recorded in 6 minute averaging increments. Plant Crist currently meets these requirements on a unit by unit basis monitoring SO₂, NO_x and opacity in the unit's flue gas duct work before being discharged through the stacks. The future Crist configuration includes additional NO_x emissions control for Crist Unit 6 and a single flue gas desulfurization SO₂ (scrubber) system with a new stack for all of the Crist units. The new stack will be the primary monitoring location for SO₂, NO_x, and heat input (flow) for State monitoring and reporting requirements. The existing stacks will remain as "by-pass" stacks for startup, shutdown, malfunction and for scrubber & SCR maintenance with restricted operational time periods. For "by-pass" operations, Gulf Power proposes the following strategy:
 - (a) Maintain opacity measurements in the unit duct work post the electrostatic precipitator but prior to the damper so particulate collection performance can be evaluated whether the unit is in "by-pass" or normal mode. (see diagram)
 - (b) Maintain the flue gas flow monitor in a location post the "by-pass" dampers near or within the Units 4-5 and 6-7 stacks to document hours of "by-pass" operation and/or vent operation per the FGD operational design. However, daily compliance determination of permitted heat input capacity shall remain through fuel analysis and fuel usage methodologies. (see diagram)
 - (c) Utilize permitted alternative procedures regarding fuel sampling to demonstrate daily SIP SO₂ compliance limitations.
 - (d) Utilize parametric procedures (for SNCR units) and F-Gas monitoring systems (for units with SCR) to demonstrate the facility wide 30 day NO_x averaging limitation.

Additional Monitoring & Compliance Issues: Gulf proposes to continue monitoring opacity and demonstrate annual particulate compliance on a unit by unit basis prior to the Crist scrubber. New opacity monitor and particulate test locations will need to be addressed for Units 6 & 7 pursuant to the change in the plant configuration. Gulf will also request FDEP to revise the Crist CAM plan to add the scrubber as an additional control measure for particulate matter. Gulf and FDEP will need to revisit the Gulf-FDEP Ozone Agreement regarding averaging procedures and prepare an alternative strategy for demonstrating compliance for Crist scrubber mode of operation. Gulf has submitted a petition to EPA requesting a delay in the installation and certification of the mercury monitoring requirements outlined in Part 75 for Crist Units 4,5,6 and 7 until the scrubber comes on line in the fall of 2009. The petition also outlines Gulf's plan to utilize missing data procedures for "by-pass" operations under Part 75 for Acid Rain, CAIR and CAMR.

Summary: Gulf has reviewed the current and future regulatory monitoring requirements for Plant Crist and has developed a monitoring plan to meet these requirements for scrubber and “by-pass operations. In summary, we believe that when the Crist scrubber is “on line” as the normal mode of operation that the CEMs monitoring system in the new scrubber stack will meet all State and Federal monitoring and reporting requirements. This includes parameters for SO₂, NO_x, CO₂, Hg and Heat Input. Opacity is the exception and is recommended to remain in the unit’s duct work for compliance reporting including CAM. For “by-pass” and scrubber modes of operation, we believe a flow monitor near or within each stack will be needed to document operational periods and modes of operation. For State “by-pass” monitoring requirements, we believe the current backup fuel sampling & analysis program can be substituted for CEM data in order to demonstrate the facility’s SIP based SO₂ emission limitation. Additionally, we believe parametric monitoring of SNCR and SCR systems can be substituted for CEM data to demonstrate NO_x monitoring requirements during “by-pass” periods for the Gulf-FDEP Ozone Agreement. For Federal “by-pass” reporting, we believe the use of EPA’s “missing data” procedures for allowance accounting for SO₂, NO_x, and mercury is acceptable for Acid Rain, CAIR and CAMR programs.

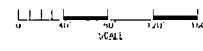
Crist CEM Monitoring and Test Proposal



LEGEND
 [Symbol] NEW EQUIPMENT
 [Symbol] NEW STACK
 [Symbol] EXISTING EQUIPMENT
 [Symbol] EXISTING STACK
 [Symbol] EXISTING GENERAL ARRANGEMENT BY UTILITIES
 [Symbol] ISOMETRIC VIEWS

REVISIONS
 EPS-3016-320 SCR GEN. ARRGT. - UNIT 6
 SHT PLAN SCALE: 1"=40'
 EPS-3016-321 SCR GEN. ARRGT. - UNIT 6
 PLAN VIEWS & SECTION "T-T"
 EPS-3016-322 SCR GEN. ARRGT. - UNIT 6
 SECTIONS - SHT 1
 EPS-3016-323 SCR GEN. ARRGT. - UNIT 6
 SECTIONS - SHT 2
 EPS-3016-324 SCR GEN. ARRGT. - UNIT 6
 ISOMETRIC VIEWS

PRELIMINARY



NO.	DATE	DESCRIPTION	BY	CHECKED	APP'D.	SCALE	NO.	DATE	DESCRIPTION	BY	CHECKED	APP'D.	SCALE	NO.	DATE	DESCRIPTION	BY	CHECKED	APP'D.	SCALE
1	07/26/07	1. REVISION: SCR GENERAL ARRANGEMENT					2	07/26/07	2. REVISION: SCR GENERAL ARRANGEMENT					3	07/19/07	3. REVISION: PUMP ROOM				

Southern Company Generation Engineering and Construction Services FOR													
GULF POWER COMPANY													
PLANT CRIST UNIT 6 SCR GENERAL ARRANGEMENT SHT PLAN 1"=40'-0"													
DATE	NO. <td>SCALE</td> <td>DESIGNED</td> <td>DRAWN</td> <td>CHECKED</td> <td>APP'D.</td> <td>DATE</td> <td>NO. <td>SCALE</td> <td>DESIGNED</td> <td>DRAWN</td> <td>CHECKED</td> <td>APP'D.</td> </td>	SCALE	DESIGNED	DRAWN	CHECKED	APP'D.	DATE	NO. <td>SCALE</td> <td>DESIGNED</td> <td>DRAWN</td> <td>CHECKED</td> <td>APP'D.</td>	SCALE	DESIGNED	DRAWN	CHECKED	APP'D.
11-07	1	1"=40'											



Department of Environmental Protection

Jeb Bush
Governor

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

Colleen M. Castille
Secretary

November 29, 2006

Ms. Penny Manuel (pmmanuel@southernco.com)
Vice President & Senior Production Officer
Gulf Power Company
One Energy Place
Pensacola, Florida 32520-0100

Re: Request for Additional Information Regarding Flue Gas Desulfurization Project at Plant Crist
File No.: 0330045-015-AC

Dear Ms. Manuel:

The Department has received your air construction permit application for the Crist Electric Generating Plant for the purpose of adding a Flue Gas Desulfurization scrubber to control emissions from units 4, 5, 6 and 7. However, in order to continue processing this application, the Department is requesting the additional information outlined below. Should your response to any of the listed items require new calculations or result in changes to the submitted information, please submit the new calculations, assumptions, reference material and appropriate revised pages of the application form, certified by your Professional Engineer.

1. Based on the revised building information sent to us by e-mail, we are concerned that the stacks for Units 4 and 5 and Units 6 and 7 will now be subject to downwash when used in the bypass mode. Please model these stacks using AERMOD and BPIP with the latest building information to determine maximum predicted SO₂ and NO_x impacts for comparison with the AAQS.
2. In addition, please confirm that the new scrubber stack for all four units will be built to at least GEP stack height. If the FAA does not approve at least a GEP stack height, then this stack will also need to be modeled to determine maximum SO₂ and NO_x impacts using AERMOD and BPIP with the latest building information.

The above comments require a written response to the Department within ninety days of receipt of this notice unless additional time is requested pursuant to Rule 62-4.055(1), F.A.C.

If you should have any questions, please contact me at (850) 921-9531.

Sincerely,

Jonathan Holtom, P.E.
North Permitting Section

/jh

CC: Mr. Tom Davis, P.E., ECT (E-mail) (tdavis@ectinc.com)
Mr. G. Dwain Waters, Gulf Power Company (E-mail) (gdwaters@southernco.com)
Ms. Sandra Veazey, DEP, Northwest District Office (Sandra.Veazey@dep.state.fl.us)
Mr. Greg Worley, U.S. EPA Region 4 (worley.gregg@epamail.epa.gov)



Environmental Consulting & Technology, Inc.

November 1, 2006

Mr. Jeff Koerner, P.E.
Professional Engineer Administrator
Florida Department of Environmental Protection
Division of Air Resource Management
111 South Magnolia Drive, Suite 23
Tallahassee, Florida 32301

**Re: Gulf Power Company – Crist Plant
FGD Construction Permit Application
Application Number: 1366-1
Professional Engineer Signature Document**

Dear Mr. Koerner:

An air construction permit application for the above referenced project was recently submitted electronically using the Department's Electronic Permit Submittal and Processing System (EPSAP).

As required, a signed and sealed Professional Engineer (PE) Signature Document is enclosed. Please contact me at (352) 248-3351 if you have any questions regarding this air construction permit application.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

Thomas W. Davis, P.E.
Principal Engineer

Enclosure

cc: Mr. Dwain Waters, Gulf Power Co.

RECEIVED

NOV 02 2006

BUREAU OF AIR REGULATION

RECEIVED

NOV 02 2006

BUREAU OF AIR REGULATION

3701 Northwest
98th Street
Gainesville, FL
32606

(352)
332-0444

FAX (352)
332-6722

Electronic Permit Submittal and Processing System (EPSAP) Professional Engineer Signature Document

"This document is signed and sealed to secure the data in this permit application and any attached files that were submitted electronically as described in Florida Department of Business and Professional Regulation, Board of Professional Engineers, Procedures for Signing and Sealing Electronically Transmitted Plan, Specifications, Reports or other Documents, Rule 61G15-23.003., F.A.C.."

EPSAP Application Number: 1366-1
Facility Identification Number: 0330045
Facility Owner/Company Name: GULF POWER COMPANY

Purpose of Application:
Air construction permit.

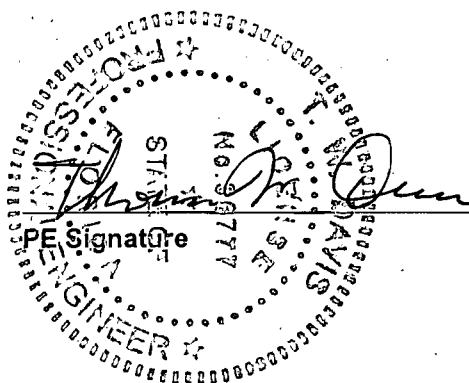
Signature File Created: 10/30/2006 4:02:26 PM

File Description	Authentication Code
Submitted Application Data	054B540A0CCDF0FA5E1D93953FF04B12184285E2
Uploaded Facility Documents:	
CristFGDPresentation.ppt	B07D213DC729B68EDD5D57485A41BA4E4CDC8F94
CristFacilityEPARuleList.pdf	2977B2D9DCDA27AA8CA0B3E6298B6949254D1448
Crist FGD Plot Plan.doc	4663AD6E13291BAAD385FE697D85B306FEA490F2
Process Flow Diagram.ppt	FDBFD857B5F83111BCC4FC5FCA37C21C081B5B92
Crist FGD Layout1.TIF	76916579915C586736761D80CF5785868A1ED5E2
Crist FGD Summary Schedule.pdf	18250A818F403E265E524874CB073059CF925E9D
CristFacilityFDEPRuleList.pdf	FEA24EDF0FF29F09397BBC87F13FFEA7C1FD700
CristFGDEmissionReductionTable estimated by LSM.xls	7E3BDCA8A1985CB88A630605F301860AE577C303
Crist stack location-Layout1.pdf	E66AFBA0EEF7A6C4AC9E9240B90D2B4AAC607537
FDEPTitleVCoreList.pdf	A300611AA2DCB9C84F1A8AE4CF88D5FE138B0D56
CristSO2NettingAnalysis102306.xls	64716F21BFBF576C56D8E57BD0D9DD8EB41144C9
CristPrecautions.DOC	10285CB3ED662DA61B5F2520F8B57EC3639700BF
Crist Ductwork Sketch for Vent Stack.pdf	9188F2EF357EEF9C31747346D90DB5730F9F3D68
Crist CEM Monitoring Plan.pdf	81369C3B3EC125C6D8184AAACFB01BB17D66F48F
Crist FGD Description.pdf	A32F125B96E2F6916CBA1BFA8478F0F2A53CF794
CristPartiulcateNettingAnalysis102306.xls	D565705AE7A2913EE07B156BF1BA43DC441A3062
Crist FGD Layout2.TIF	FD48AA3AC7956A8CCC6970634C6A31D9465BDC0E
Uploaded Emissions Unit Documents:	
Crist 4Methods.doc	B15DB34404F0DC5FAE2B9668AF4D44029F46D9C9
Crist 5Methods.doc	2357C50EC97A59E57A356AF07584E32DF7E45803
Crist 6Methods.doc	9CA0E81420B43DCC1DA6CB3C3E30DCB4110945C3
Crist 7Methods.doc	A760535EB92E35CA89E4470FCCEAAF533EDF5E88
Criststacksiteplan.pdf	A194942219CE54257B1DD4DC4EF7F03BD0200497
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Chimney Sketch rev1-Layout1.pdf	0725AFD34A912498BD37A9A6CDFC65E417DA4573

Criststacksiteplan.pdf	A194942219CE54257B1DD4DC4EF7F03BD0200497
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Crist4EPARuleList.pdf	9BCB1017499BE4B225A9E84A4A7B3BACBC1C11C8
Crist4FDEPRuleList.pdf	7867180D4FE476E73D74FAE590FA33A4BCDF62E7
FDEPTitleVCoreList.pdf	A300611AA2DCB9C84F1A8AE4CF88D5FE138B0D56
Crist5EPARuleList.pdf	4E3AD855978FF6C5D5EE22DDE9F9058C46845C3E
Crist5FDEPRuleList.pdf	04DB03A3E8860E6B6A1AE177B857F8FE471807C8
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Crist6EPARuleList.pdf	4E2D0A9F47B027E5A97347B75E26586B32C02F98
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FDEPTitleVCoreList.pdf	A300611AA2DCB9C84F1A8AE4CF88D5FE138B0D56
Process Flow Diagram.ppt	FDBFD857B5F83111BCC4FC5FCA37C21C081B5B92
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LimestonePrep1.tif	925D10C7BBD49F0B6822AF1D95B358E21A862F99
LimestonePrep2.tif	D12B3111FDD80EF7B27527EB4F29BF488D2E95B
EU9CR2006.WK4	B5B613FFBB46ACCC73536384ACA9AB7F00ECCE94
Final Signature File	FC87CB96E38A7EA34B7110CF09E48AF98CED5A04

Professional Engineer (PE): TOM DAVIS License No: 36777

(sign and affix PE seal below)



11/1/06
Date

Department of
Environmental Protection
Division of Air Resource Management

**SUBMITTED APPLICATION REPORT
APPLICATION FOR AIR PERMIT - LONG FORM**

--- Form Effective 02/02/06 ---

Application Number: 1366- 1
Application Name: CRIST FGD-SCR PROJECT
Date Submitted: 30 October 2006

Received:
* 10/30/06

I. APPLICATION INFORMATION

Air Construction Permit - Use this form to apply for any air construction permit at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air permit. Also use this form to apply for an air construction permit:

- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- Where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- Where the applicant proposes to establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit - Use this form to apply for:

- an initial federally enforceable state air operation permit (FESOP); or
- an initial/revise/renewal Title V air operation permit.

Air Construction Permit & Title V Air Operation Permit (Concurrent Processing Option) - Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: GULF POWER COMPANY	
2. Site Name: CRIST ELECTRIC GENERATING PLANT	
3. Facility Identification Number: 0330045	
4. Facility Location...	
Street Address or Other Locator:	on Pate Road, off 10 mile Rd, located on Governors Bayou
	10 Mile Road
City: PENSACOLA	County: ESCAMBIA Zip Code: 32520-0340
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Title V Permitted Facility <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Application Contact

1. Application Contact Name: GLENN WATERS	Application Contact Job Title: Special Projects and Environmental Assets Coordinator
2. Application Contact Mailing Address... Organization/Firm: GULF POWER COMPANY Street Address: ONE ENERGY PLACE City: PENSACOLA State: FL Zip Code: 32520-0329	
3. Application Contact Telephone Numbers... Telephone: (850) 444-6527 ext. Fax: (850) 444-6217	
4. Application Contact Email Address: gdwaters@southernco.com	

Purpose of Application**This application for air permit is submitted to obtain: (Check one)****Air Construction Permit**

- Air construction permit.
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

Air Operation Permit

- Initial Title V air operation permit.
- Title V air operation permit revision.
- Title V air operation permit renewal.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit**(Concurrent Processing)**

- Air construction permit and Title V permit revision, incorporating the proposed project.
- Air construction permit and Title V permit renewal, incorporating the proposed project.

Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:

- I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

The purpose of this application is to request a construction permit for the installation of a wet Flue Gas Desulphurization (FGD) scrubber on the coal fired generating units (4-7) at Plant Crist to comply with requirements associated with new CAIR and CAMR rules.

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type
5	Boiler #5	AC1B
7	Boiler #7	AC1B
9	Coal, Limestone, Ash and Gypsum Materials Handling	AC1B
4	Boiler #4	AC1B
6	Boiler # 6	AC1B

Note: The fee calculation information associated with this application may be accessed from the Main Menu of ESPAP.

Owner/Authorized Representative Statement**Complete if applying for an air construction permit or an initial FESOP.**

1.	Owner/Authorized Representative Name: PENNY MANUEL	Owner/Authorized Representative Job Title: Vice President and SPO
2.	Owner/Authorized Representative Mailing Address... Organization/Firm: GULF POWER COMPANY Street Address: ONE ENERGY PLACE City: PENSACOLA State: FL Zip Code: 32520-0001	
3.	Owner/Authorized Representative Telephone Numbers... Telephone: (850) 444-6383 ext. Fax: (850) 444-6744	
4.	Owner/Authorized Representative Email Address: pmmanuel@southernco.com	
5.	<p>Owner/Authorized Representative Statement:</p> <p>By entering my PIN below, I certify that I am the owner/authorized representative of the facility addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other requirements identified in this application to which the facility is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit.</p>	

Professional Engineer Certification

1.	Professional Engineer Name: TOM DAVIS Registration Number: 36777	Professional Engineer Job Title: Principal Engineer
2.	Professional Engineer Mailing Address... Organization/Firm: ECT, INC. Street Address: 11211 NW 98TH STREET City: GAINESVILLE State: FL Zip Code: 32606-5004	
3.	Professional Engineer Telephone Numbers... Telephone: (352) 248-3351 ext. Fax: (352) 332-6722	
4.	Professional Engineer Email Address: TDAVIS@ECTINC.COM	
5.	Professional Engineer Statement: I hereby certify, except as particularly noted herein*, that: (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application. (3) If the purpose of this application is to obtain a Title V air operation permit (check here <input type="checkbox"/> , if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application. (4) If the purpose of this application is to obtain an air construction permit (check here <input checked="" type="checkbox"/> , if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here <input type="checkbox"/> , if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application. (5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here <input type="checkbox"/> , if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.	

* Explain any exception to the certification statement.

Professional Engineer Exception Statement:

II. FACILITY INFORMATION
A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 16 East (km) 478.27 North (km) 3381.36		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 30° 33' 58" N Longitude (DD/MM/SS) 87° 13' 44" W	
3. Governmental Facility Code: (0) NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT	4. Facility Status Code: Active	5. Facility Major Group SIC Code: (49) ELECTRIC, GAS AND SANITARY SERVICES	6. Facility SIC(s): Primary: 4911
7. Facility Comment: Facility is a coal-fired generating plant comprised of 4 units ranging from 93 to 579 MW and supportive systems.			

Facility Contact

1. Facility Contact Name: GLENN DWAIN WATERS	Facility Contact Job Title: Special Projects and Environmental Assets Coordinator
2. Facility Contact Mailing Address... Organization/Firm: GULF POWER COMPANY Street Address: ONE ENERGY PLACE City: PENSACOLA State: FL Zip Code: 32520-0328	
3. Facility Contact Telephone Numbers... Telephone: (850) 444-6527 ext. Fax: (850) 444-6217	
4. Facility Contact Email Address: gdwaters@southernco.com	

Facility Regulatory Classifications Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a "major source" and a "synthetic minor source."

1.	<input type="checkbox"/> Small Business Stationary Source	<input type="checkbox"/> Unknown
2.	<input type="checkbox"/> Synthetic Non-Title V Source	
3.	<input checked="" type="checkbox"/> Title V Source	
4.	<input checked="" type="checkbox"/> Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5.	<input type="checkbox"/> Synthetic Minor Source of Air Pollutants, Other than HAPs	
6.	<input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)	
7.	<input type="checkbox"/> Synthetic Minor Source of HAPs	
8.	<input type="checkbox"/> One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9.	<input type="checkbox"/> One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10.	<input type="checkbox"/> One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11.	<input type="checkbox"/> Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12.	Facility Regulatory Classifications Comment:	

List of Pollutants Emitted by Facility

1. Pollutants Emitted	2. Pollutant Classification	Emissions Cap [Y or N]?
NOX	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	Y
HAPS	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	N
H107	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	N
H106	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	N
VOC	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	N
CO	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	N
PM	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	N
SO2	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	N
PM10	(A) ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS.	N
NH3	(C) CLASS IS UNKNOWN	N
TH	(C) CLASS IS UNKNOWN	N
H150	(C) CLASS IS UNKNOWN	N
H095	(C) CLASS IS UNKNOWN	N
H151	(C) CLASS IS UNKNOWN	N
H161	(C) CLASS IS UNKNOWN	N
H014	(C) CLASS IS UNKNOWN	N
DIOX	(C) CLASS IS UNKNOWN	N
H162	(C) CLASS IS UNKNOWN	N
H169	(C) CLASS IS UNKNOWN	N
H017	(C) CLASS IS UNKNOWN	N
H047	(C) CLASS IS UNKNOWN	N
H133	(C) CLASS IS UNKNOWN	N
H114	(C) CLASS IS UNKNOWN	N
H113	(C) CLASS IS UNKNOWN	N
H046	(C) CLASS IS UNKNOWN	N
H027	(C) CLASS IS UNKNOWN	N
H021	(C) CLASS IS UNKNOWN	N
H015	(C) CLASS IS UNKNOWN	N
SAM	(C) CLASS IS UNKNOWN	N
PB	(C) CLASS IS UNKNOWN	N

B. Emissions Caps

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant Subject to Emissions Cap	2. Facility Wide Cap [Y or N]? (all units)	3. Emissions Unit ID No.s Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap
NOX	Yes	All		10779	OTHER
<p>7. Facility-Wide or Multi-Unit Emissions Cap Comment: NOX: FDEP-Gulf Ozone Agreement established a NOx cap of 0.2 lb/MMBtu (30-day rolling average) for Units 4, 5, 6, and 7. 10779 annual tons is an equivalent limit based on facility 12304.6 mmbtu/hr @ .20 lb/mmbtu * 8760 * 1/2000 lb/ton. Ton Cap is not a limit.</p>					

C. FACILITY ADDITIONAL INFORMATION**Additional Requirements for All Applications, Except as Otherwise Stated**

1. Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)	<input type="checkbox"/> Applicable	<input type="checkbox"/> Previously Submitted, Date:	<input checked="" type="checkbox"/> Attachment
2. Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)	<input type="checkbox"/> Applicable	<input type="checkbox"/> Previously Submitted, Date:	<input checked="" type="checkbox"/> Attachment
3. Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)	<input checked="" type="checkbox"/> Applicable	<input type="checkbox"/> Previously Submitted, Date:	<input checked="" type="checkbox"/> Attachment

Additional Requirements for Air Construction Permit Applications

1. Area Map Showing Facility Location: (Not applicable for existing permitted facility)	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
2. Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL):	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
3. Rule Applicability Analysis:	<input checked="" type="checkbox"/> Applicable	<input checked="" type="checkbox"/> Attachment
4. List of Exempt Emissions Units (Rule 62-210.300(3), F.A.C.): (Not applicable if no exempt units at facility)	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
5. Fugitive Emissions Identification:	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.):	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.):	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.):	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.):	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.):	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment

Additional Requirements for FESOP Applications.

1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.): (Not applicable if no exempt units at facility)	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
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Additional Requirements for Title V Air Operation Permit Applications

1. List of Insignificant Activities: (Required for initial/renewal applications, but not for revision applications)	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
2. Identification of Applicable Requirements (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought):	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
3. Compliance Report and Plan: (Required for all initial/revision/renewal applications): Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
4. List of Equipment/Activities Regulated under Title VI (If applicable, required for initial/renewal applications only):	<input type="checkbox"/> Applicable <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed	<input type="checkbox"/> Attachment
5. Verification of Risk Management Plan Submission to EPA (If applicable, required for initial/renewal applications only):	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
6. Requested Changes to Current Title V Air Operation Permit:	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment

Other Information Regarding this Facility:

4. Other Facility Information:	<input checked="" type="checkbox"/> Included	<input checked="" type="checkbox"/> Attachment
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Additional Requirements Comment

Please find attached a description of the Crist Wet FGD Scrubber, plot plan, process flow, netting analysis,CEM Monitoring Plan and support information for this project.

Facility Attachments

Supplemental Item	Electronic File Name	Attachment Description	Electronic Document	Date Uploaded
Rule Applicability Analysis	FDEPTitleVCoreList.pdf	Facility FDEP Core List.	Yes	10/25/2006
	CristFacilityFDEPRuleList.	Facility FDEP Rule List.	Yes	10/25/2006
	CristFacilityEPARuleList.p	Facility EPA Rule List.	Yes	10/25/2006
Facility Plot Plan	Crist stack location-Layout1.pdf	Facility Proposed Chimney Location Plot.	Yes	10/24/2006
	Crist FGD Plot Plan.doc	Facility Plot Plan	Yes	10/27/2006
Process Flow Diagram (s)	Crist Ductwork Sketch for Vent Stack.pdf	Crist Process Flow for Vent Stack and Unit arrangement.	Yes	10/25/2006
	Process Flow Diagram.ppt	Facility Process Flow	Yes	10/20/2006
Precautions to Prevent Emissions of Unconfined Particulate Matter	CristPrecautions.DOC	Crist Facility Precautions.	Yes	10/30/2006
Other Facility Information	Crist FGD Layout2.TIF	Crist Facility FGD Layout Document 2.	Yes	10/24/2006
	Crist FGD Description.pdf	Crist FCG Project Description.	Yes	10/26/2006
	CristFGDEmissionReductio estimated by LSM.xls	Crist Chiyoda Scrubber Emission Factors by Larry Monroe.	Yes	10/24/2006
	CristSO2NettingAnalysis10	Crist SO2 Netting Analysis.	Yes	10/27/2006
	Crist CEM Monitoring Plan.pdf	Crist CEM Monitoring Plan.	Yes	10/26/2006
	CristPartiulcateNettingAnal	Crist Particulate Netting Analysis.	Yes	10/28/2006
	Crist FGD Summary Schedule.pdf	Crist FGD Schedule.	Yes	10/24/2006
	CristFGDPresentation.ppt	Crist FGD Presentation	Yes	10/20/2006
	Crist FGD Layout1.TIF	Crist Facility FCG Layout Document 1.	Yes	10/24/2006

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section:
Boiler #4

3. Emissions Unit Identification Number: 4

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date: 01-JUL-59	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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9. Package Unit COMBUSTION ENGINEERING Model Number:
Manufacturer:

10. Generator Nameplate Rating: 93 MW

11. Emissions Unit Comment:
Unit 4 is a Combustion Engineering tangentially fired, dry bottom electric utility boiler.

Emissions Unit Control Equipment

Code	Equipment	Description
10	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0-99.9%)	Hot side electrostatic precipitators manufactured by Buell Model Bal. 2x34n333-4-3p and cold side precipitators Buell Model 1.1x48k33-1p.
1	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)	Unit 4 flue gas emissions will be incorporated with Units 5,6 and 7 to a single Wet FGD scrubber system. Unit 4 will have a by-pass stack for startup, shutdown and malfunction.
205	LOW NOX BURNERS	
107	SELECTIVE NONCATALYTIC REDUCTION FOR NOX	SNCR added in 2006.

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:		
2. Maximum Production Rate:		
3. Maximum Heat Input Rate:	1097 million Btu/hr	
4. Maximum Incineration Rate:	pounds/hr	
	tons/day	
5. Requested Maximum Operating Schedule:	24 hours/day	7 days/week
	52 weeks/year	8760 hours/year
6. Operating Capacity/Schedule Comment:	1096.7 mmBtu/hr. Compliance by fuel records.	

C. EMISSION POINT (STACK/VENT) INFORMATION
(Optional for unregulated emissions units.)

Emission Point Description and Type

<p>1. Identification of Point on Plot Plan or Flow Diagram: SINGLE COMMON BY-PASS STACK SHARED BY UNITS 4, 5, 6 & 7</p>	<p>2. Emission Point Type Code: 2 - An emission point serving 2 or more EU's capable of simultaneous operation</p>	
<p>3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:</p>		
<p>4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:</p> <ul style="list-style-type: none"> • 5 - Boiler #5 • 6 - Boiler # 6 • 7 - Boiler #7 		
<p>5. Discharge Type Code: (V) A STACK WITH AN UNOBSTRUCTED OPENING DISCHARGING IN A VERTICAL/NEARLY VERTICAL DIRECTION</p>	<p>6. Stack Height: 450 feet</p>	<p>7. Exit Diameter: 35 feet</p>
<p>8. Exit Temperature: 131° F</p>	<p>9. Actual Volumetric Flow Rate: 3282000 acfm</p>	<p>10. Water Vapor: 9 %</p>
<p>11. Maximum Dry Standard Flow Rate: dscfm</p>	<p>12. Nonstack Emission Point Height: feet</p>	
<p>13. Emission Point UTM Coordinates... Zone: 16 East (km): 478.25 North (km): 3381.61</p>	<p>14. Emission Point Latitude/Longitude... Latitude: 30° 34' .34" N Longitude: 87° 13' 36.5" W</p>	
<p>15. Emission Point Comment: Existing stack used for by-pass operations for units 4&5@450ft;18ftdia;290degrees;Location:Z16,E478.53,N3381.49; Unit 6& 7@450ft;18ftdia, 316degrees, 2975540 acfm. location:Z16,E478.435,N3381.482</p>		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 5

1. Segment Description (Process/Fuel Type): Pulverized bituminous coal.		
2. Source Classification Code (SCC): 10100212	3. SCC Units: Tons Bituminous Coal Burned	
4. Maximum Hourly Rate: 45.71	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash: 9.3	9. Million Btu per SCC Unit: 24
10. Segment Comment: Primarily a coal fired unit. This unit is also capable of full load using natural gas and No. 2 fuel oil.		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 2 of 5

1. Segment Description (Process/Fuel Type): #2 fuel oil		
2. Source Classification Code (SCC): 10100501	3. SCC Units: 1000 Gallons Distillate Oil (No. 1 & 2) Burned	
4. Maximum Hourly Rate: 7.184	5. Maximum Annual Rate: 62931.84	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: .5	8. Maximum % Ash: .1	9. Million Btu per SCC Unit: 138
10. Segment Comment: #2 fuel oil as a back up fuel.		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 3 of 5

1. Segment Description (Process/Fuel Type): Natural gas.		
2. Source Classification Code (SCC): 10100604	3. SCC Units: Million Cubic Feet Natural Gas Burned	
4. Maximum Hourly Rate: .96	5. Maximum Annual Rate: 8409.6	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: .01	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1000
10. Segment Comment: Natural gas.		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 4 of 5

1. Segment Description (Process/Fuel Type): "Biomass" (wood, switchgrass, sawdust, and sander dust)		
2. Source Classification Code (SCC): 10100903	3. SCC Units: Tons Wood Burned	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Permit allows up to 97.7 MMBtu/hr of "biomass" (wood, switchgrass, sawdust, and sander dust) with TPH and TPY limits for each "biomass" fuel		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 5 of 5

1. Segment Description (Process/Fuel Type): On-specification used oil.		
2. Source Classification Code (SCC): 10101302	3. SCC Units: 1000 Gallons Waste Oil Burned	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Used oil specification: Arsenic 5 PPM, Cadmium 2 PPM, Chromium 10 PPM, Lead 100 PPM, Total Halogens 1000 PPM, PCB50 ppm.		
Is this a valid segment? Yes		

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code	Valid?
CO			NS	Yes
DIOX			NS	Yes
H014			NS	Yes
H015			EL	Yes
H017			NS	Yes
H021	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H027	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
H046	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
H047			NS	Yes
H095			NS	Yes
H106	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H107	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H113	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H114	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H133			NS	Yes
H150			EL	Yes
H151			NS	Yes
H161			NS	Yes
H162	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H169			NS	Yes
HAPS				Yes
NH3				Yes
NOX	LOW NOX BURNERS	NSCR (NON-SELECTIVE CATALYTIC REDUCTION)	EL	Yes
	WET SCRUBBER			

PB	HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
PM	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0- 99.9%)	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)	EL	Yes
PM10	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0- 99.9%)	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)	NS	Yes
SAM	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
SO2	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
VOC			NS	Yes

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: CO - Carbon Monoxide		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 38.4 lb/hour 168.19 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 40 LB/MMCF BURNED Reference: AP-42		7. Emissions Method Code: (3) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: [40 lb/mmcf] [.96 mmcf/hr] [8760 hr/yr] [1/2000] =168.19 tons/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Potential emissions highest with unit operates on natural gas.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: DIOX - Dioxin/Furan		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H014 - Antimony Compounds	2. Total Percent Efficiency of Control:
3. Potential Emissions: <div style="display: flex; justify-content: space-between; width: 100%;">.04 lb/hour.16 tons/year</div>	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: .004935 LB/1000 GAL Reference: AP-42	7. Emissions Method Code: (3) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM.
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years
10. Calculation of Emissions: .004935 lb/kgal * 7.184 kgal/hr * 8760hr/yr * 1/2000 lb/ton = .16 ton/yr	
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H015 - Arsenic Compounds (inorganic including arsine)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour .02 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000092 LB/TON Reference: RAD		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000092 lb/ton * 45.71 t/hr * 8760 hr/yr * 1/2000 lb/ton = .02 t/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Limited to 5 ppm as specification of used oil. Assume no reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H017 - Benzene (including benzene from gasoline)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour .02 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000091 LB/TON Reference: EPRISR		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000091 lb/ton * 45.71 ton/hr * 8760 hr/yr * 1/2000 lb/ton = .02 t/y			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Assume no change from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H021 - Beryllium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour .02 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000103 LB/TON Reference:		7. Emissions Method Code: (2) CALCULATED BY USE OF MATERIAL BALANCE AND KNOWLEDGE OF THE PROCESS.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000103 lb/ton * 45.71 ton/hr * 8760 hr/yr * 1/2000 lb/ton * (1-.20)=.02			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Assume 20% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H027 - Cadmium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour .01 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000079 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000079 lb/ton * 45.71 ton/hr * 8760 hr/yr * 1/2000 lb/ton * (1-.20)= .01 ton/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Limited to 2 ppm as specification of used oil. Assume 20% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H046 - Chromium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .02 lb/hour .07 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .00045 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .00045 lb/ton * 45.71 ton/hr * 8760 hr/yr * 1/2000 lb/ton * (1-.20)reduction = .07			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Limited to 10 ppm as specification of used oil.Assume 20 % reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H047 - Cobalt Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .04 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .005217 LB/1000 GAL Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .005217 lb/1000gal * 7.184 kgal/hr = .04; Annual= .005217 * 62931.84/2000 = .16 ton			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H095 - Formaldehyde		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .02 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .00282 LB/1000 GAL Reference: EPRISR		7. Emissions Method Code: (2) CALCULATED BY USE OF MATERIAL BALANCE AND KNOWLEDGE OF THE PROCESS.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .00282 lb/kgal * 7.184 kgal/hr=.02 lb/hr; Annual = .00282 * 62931.84/2000=0.09 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H106 - Hydrogen chloride (Hydrochloric acid)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 79.53 lb/hour 28.03 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 1.74 LB/TON Reference: EPRI TR-105611		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr= 1.74 lb/ton coal*45.71 ton/hr = 79.53; Annual = (79.53 * 456 hr) + (8304 hrs *79.53 * (1-.97))* 1/2000 lb/ton = 28.03 tons/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Max potential emissions are based on by-pass mode. Annual= @97%control + 19 days by-pass = 28.03 ton/yr; Assume 97% reduction of HCL from FGD based on EPRI report.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H107 - Hydrogen fluoride (Hydrofluoric acid)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 7.7 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4 tons/year
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .16848 LB/TON Reference: EPRI TR-105611		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr= .16848 lb/ton coal*45.71 ton/hr = 7.70lb/hr; Annual = (7.70 * 456 hr) + (8304 hrs *7.70 * (1-.93))* 1/2000 lb/ton = 4.00 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max potential emissions are based on by-pass mode. Annual= @93%control + 19 days by-pass = ton/yr;			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H113 - Manganese Compounds	2. Total Percent Efficiency of Control:
3. Potential Emissions: .02 lb/hour .08 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="checked" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: .000542 LB/TON Reference:	7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years
10. Calculation of Emissions: .000542 lb/ton * 45.71 ton/hr *(1-.20)reduction * 8760/2000 = .08	
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Assume 20% reduction from the FGD.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H114 - Mercury Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .006 lb/hour .02 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .00014 LB/TON Reference: GDW		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr= .00014 lb/ton coal*45.71 ton/hr = .006lb/hr; Annual = (.006lb/hr * 456 hr) + (8304 hrs *.006 lb/hr * (1-.45))* 1/2000 lb/ton = (30.1 lbs)or.02 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max hr potential emissions are based on by-pass mode. Annual = @45%control + 19 days by-pass= ton/yr;			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H151 - Polycyclic organic matter		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .02 lb/hour .1 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .003173 LB/1000 GAL Reference: RAD		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .003173 lb/kgal * 7.184 kgal/hr= .02; Annual = .003173*62931.84 kgal/2000 = .10 tons/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H161 - Radionuclides (including radon)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H162 - Selenium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .12 lb/hour .14 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .002541 LB/TON Reference: EPRI TR-105611		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr (By-pass mode)=.002541 lb/ton * 45.71 ton/hr =.12 lb/hr; Annual= (456 hrs *0.12)+ ((8304 hr * 0.12 lb/hr)*(1-.78)reduction)* 1/2000 lb/ton =.14 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max potential emissions are based on by-pass mode. Annual= @78%control + 19 days by-pass = ton/yr;Assume 78% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H169 - Toluene		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .01 lb/hour .04 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .001396 LB/1000 GAL Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .001396 lb/kgal * 7.184 kgal/hr = .01 lb/hr; Annual = .001396 * 62931.84 kgal/yr/2000 = .04 ton/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: HAPS - Total Hazardous Air Pollutants		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: NH3 - Ammonia	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: OTHER (SPECIFY IN COMMENT) Reference:	7. Emissions Method Code:
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years
10. Calculation of Emissions:	
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: 5 ppmvd @ 3% O2; SNCR slip.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: NOX - Nitrogen Oxides	2. Total Percent Efficiency of Control:
3. Potential Emissions: 570.28 lb/hour 2497.84 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: .52 LB/MMBTU Reference: PERMIT LIMIT	7. Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST-CASE ALLOWABLE EMISSION.
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years
10. Calculation of Emissions: [0.52 lb/mmBtu] [1096.7 mmBtu/hr] [8760 hr/yr] [1/2000]= 2497.84 tons/yr	
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: See Plantwide Limit- NOx emissions from units 4-7 will not exceed 0.2 lb/MMBtu of heat input on a rolling 30day average. Acid rain limit.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: (OTHER) assumed by applicant for other reasons (Explain in comment field)	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: .52 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 570.28 lb/hour 2497.84 tons/year
5. Method of Compliance: CEM annual average of Title V Phase II NOx Averaging Plan.	
6. Allowable Emissions Comment (Description of Operating Method): Crist Unit 4 is part of the Southern System NOx Averaging Plan for compliance with Phase II NOx limits. See 40 CFR Part 76 for details. No hrly annual equivalent allowable emissions necessary.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM - Particulate Matter - Total		2. Total Percent Efficiency of Control: 99	
3. Potential Emissions: 329.01 lb/hour 202.01 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .3 LB/MMBTU Reference: PERMIT LIMIT		7. Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST-CASE ALLOWABLE EMISSION.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max (By-pass)lb/hr = 1096.7 mmBtu/hr*0.30 lb/mmBtu = 329.01 lb/hr. TPY =(456 hrs * 1096.7 mmbtu * .125 lb/mmbtu) + ((8304 hrs * 1096.7 mmBtu/hr*0.125 lb/mmBtu * (1-.70)reduction * 1 ton/2000 lb = 202.01 TPY			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max Hr = Soot blow standard; Annual Avg. Emission factor avg. based on 0.1 lb/MMBtu for 21 hours (steady- state); 0.3 lb/MMBtu, 3 hours (soot-blowing). Assume 70% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: .1 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 109.67 lb/hour 600 tons/year
5. Method of Compliance: Test required when liquid a/o solid fuel fired >400 hrs/yr	
6. Allowable Emissions Comment (Description of Operating Method): During normal operations.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: .3 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 329.01 lb/hour 600 tons/year
5. Method of Compliance: Test required when liquid a/o solid fuel fired >400 hrs/yr	
6. Allowable Emissions Comment (Description of Operating Method): During soot-blowing and load change for 3-hrs per 24-hr period .	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM10 - Particulate Matter - PM10		2. Total Percent Efficiency of Control: 99	
3. Potential Emissions: 21.25 lb/hour 57.79 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .465 LB/TON Reference: AP-42		7. Emissions Method Code: (3) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr (By-pass) = [.465 lb/ton of coal] [45.71 ton/hr] = 21.25lb/hr; Annual = (456 hr * 21.25 lb/hr) + [8304 hr/yr * 21.25 lb/hr * 1-.40]reduction]*[1/2000]=57.79 tons/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Assume 40% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SAM - Sulfuric Acid Mist	2. Total Percent Efficiency of Control:
3. Potential Emissions: 4.88 lb/hour 13.27 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: 1.14 LB/TON Reference: EPRI & LARRY MONROE	7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years
10. Calculation of Emissions: $Max\ Hr(By-Pass)=(3063*0.008*(2.4*1096.7)*1/2000)*.49*.63*.49 = 4.88\ lb/hr;$ Annual = (456 hr * 4.88 lb/hr)+ ((8304 hr * 4.88 * (1-.40)reduction * 1/2000 lb/ton = 13.27 tons/yr	
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: See Larry Monroe Acid Mist Paper. Assume 40% reduction from FGD.Unit has hot & cold ESP+Air Heater.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SO2 - Sulfur Dioxide		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 2632.8 lb/hour		1146.8 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 2.4 LB/MMBTU Reference: PERMIT LIMIT		7. Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST-CASE ALLOWABLE EMISSION.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr (By-pass)=2.4 lb/mmbtu * 1096 mmbtu/hr = 2632.8 lb/hr; Annual =(456 hr *2632.8)+ ((8304 hr *2632.8 * (1-.95))* 1/2000 = 1146.8 tons			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max potential emissions are based on coal firing during by-pass mode. Annual = @95%control + 19 days by-pass.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 2.4 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 2632.08 lb/hour 11528.51 tons/year
5. Method of Compliance: Daily 24 hour average based on CEM	
6. Allowable Emissions Comment (Description of Operating Method): While firing coal.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 2.4 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 2632.1 lb/hour 11528.5 tons/year
5. Method of Compliance: Daily 24 hour average based on CEM	
6. Allowable Emissions Comment (Description of Operating Method): While burning liquid fuel.	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: VOC - Volatile Organic Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 2.74 lb/hour 12.01 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .06 LB/TON Reference: FIRE		7. Emissions Method Code: * (3) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .06 lb/ton * 45.71 ton/hr = 2.74; Annual = 2.74 lb/hr * 8760/2000 = 12.01			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD;			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE40 - VISIBLE EMISSIONS - 40% NORMAL OPACITY	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 40% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment: During normal operations. Compliance shown through transmissometer (opacity meter).	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE60 - VISIBLE EMISSIONS - 60% NORMAL OPACITY	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 60% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment: During the 3-hrs in any 24 hr period allowed for boiler cleaning (soot blowing) and load change. Compliance shown through transmissometer (opacity meter).	

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 5

1. Parameter Code: EM - EMISSION	2. Pollutant(s): SO2
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Teco Model Number: 43H Serial Number: 43H-44285-271	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Unit has elected to install and operate CEM for SO2 in lieu of monitoring emissions using fuel sampling and analysis under rule 62-296.405(1)(f)1.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 2 of 5

1. Parameter Code: VE - Visible emissions (opacity)	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Lear Siegler Model Number: SS-4542 Serial Number: 940601	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Unit required to monitor opacity under 62-96.405(1)(f)1.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 3 of 5

1. Parameter Code: EM - EMISSION	2. Pollutant(s): NOX
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Teco Model Number: 42D Serial Number: 42D-44859-272	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses Siemens and Teco analyzers to calculate unit NOx emission rate.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 4 of 5

1. Parameter Code: CO2 - Carbon dioxide	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Siemens Model Number: ULTRAMAT 5E Serial Number: E3-729	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses the Siemens CO2 analyzer to measure the diluent component of the SO2 and NOX emission rate.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 5 of 5

1. Parameter Code: FLOW - Volumetric flow rate	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: United Science Model Number: ULTRAFLOW 100 Serial Number: 9401588	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses heat input measurements from flow to calculate hourly emissions.	
Status: Active	

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1.	Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)		
	<input type="checkbox"/> Applicable	<input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
2.	Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)		
	<input type="checkbox"/> Applicable	<input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
3.	Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)		
	<input type="checkbox"/> Applicable	<input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
4.	Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)		
	<input type="checkbox"/> Applicable	<input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
5.	Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)		
	<input type="checkbox"/> Applicable	<input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
6.	Compliance Demonstration Reports/Records		
	<input type="checkbox"/> Applicable	<input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
		<input type="checkbox"/> To Be Submitted, Date (if known):	
	Previously Submitted Test Date(s)/Pollutants Tested:		
	To be Submitted Test Date(s)/Pollutants Tested:		
	Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.		
7.	Other Information Required by Rule or Statute		
	<input type="checkbox"/> Applicable		<input type="checkbox"/> Attachment

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements	<input checked="" type="checkbox"/> Applicable	<input checked="" type="checkbox"/> Attachment
2. Compliance Assurance Monitoring Plan	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
3. Alternative Methods of Operation	<input checked="" type="checkbox"/> Applicable	<input checked="" type="checkbox"/> Attachment
4. Alternative Modes of Operation (Emissions Trading)	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
5. Acid Rain Part Application		
Certificate of Representation (EPA Form No. 7610-1)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Acid Rain Part (Form No. 62-210.900(1)(a))	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
New Unit Exemption (Form No. 62-210.900(1)(a)2.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment

Additional Requirements for Air Construction Permit Applications

- | | | |
|---|-------------------------------------|-------------------------------------|
| 1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) | <input type="checkbox"/> Applicable | <input type="checkbox"/> Attachment |
| 2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) | <input type="checkbox"/> Applicable | <input type="checkbox"/> Attachment |
| 3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) | <input type="checkbox"/> Applicable | <input type="checkbox"/> Attachment |

Other Information Regarding this Emissions Unit

- | | | |
|-------------------------------------|--|--|
| 1. Other Emissions Unit Information | <input checked="" type="checkbox"/> Applicable | <input checked="" type="checkbox"/> Attachment |
|-------------------------------------|--|--|
- Note: Provide any other information related to the emissions unit addressed in this Emissions Unit Information Section that is not elsewhere provided in the application, not otherwise required and that you, the applicant, believe may be helpful.

Additional Requirements Comment

(1) fuel analyses have previously been submitted, (2) a detailed description of the FGD control equipment is included with the facility attachments, and (3) a description of stack sampling facilities for the new FGD stack will be provided when available.
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Emission Unit Attachments

Supplemental Item	Electronic File Name	Attachment Description	Electronic Document	Date Uploaded
Other Emissions Unit Information	Criststacksiteplan.pdf	New FGD Stack Site Plan.	Yes	10/24/2006
	Chimney Sketch rev1-Layout1.pdf	Crist Chimney Sketch Layout.	Yes	10/24/2006
Identification of Applicable Requirements	Crist4EPARuleList.pdf	Crist 4 EPA Rule List.	Yes	10/25/2006
	FDEPTitleVCoreList.pdf	Crist 4 FDEP Title V Core List.	Yes	10/25/2006
	Crist4FDEPRuleList.pdf	Crist 4 FDEP Rule List.	Yes	10/25/2006
Alternative Methods of Operation	Crist 4Methods.doc	Crist 4 methods of operation update	Yes	10/20/2006

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section:
Boiler #5

3. Emissions Unit Identification Number: 5

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date: 01-JUN-61	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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9. Package Unit COMBUSTION ENGINEERING Model Number:
Manufacturer:

10. Generator Nameplate Rating: 93 MW

11. Emissions Unit Comment:
Unit 4 is a Combustion Engineering tangentially fired, dry bottom electric utility boiler.

Emissions Unit Control Equipment

Code	Equipment	Description
10	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0-99.9%)	Hot side electrostatic precipitators manufactured by Buell Model Bal. 2x34n333-4-3p and cold side precipitators Buell Model 1.1x48k33-1p.
1	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)	Unit 4 flue gas emissions will be incorporated with Units 5,6 and 7 to a single Wet FGD scrubber system. Unit 4 will have a by-pass stack for startup, shutdown and malfunction.
205	LOW NOX BURNERS	
140	NSCR (NON-SELECTIVE CATALYTIC REDUCTION)	

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:		
2. Maximum Production Rate:		
3. Maximum Heat Input Rate:	1097 million Btu/hr	
4. Maximum Incineration Rate:	pounds/hr	
	tons/day	
5. Requested Maximum Operating Schedule:	24 hours/day	7 days/week
	52 weeks/year	8760 hours/year
6. Operating Capacity/Schedule Comment:	1096.7 mmBtu/hr. Compliance by fuel records.	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: SINGLE COMMON BY-PASS STACK SHARED BY UNITS 4, 5, 6 & 7		2. Emission Point Type Code: 2 - An emission point serving 2 or more EU's capable of simultaneous operation	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <ul style="list-style-type: none"> • 4 - Boiler #4 • 6 - Boiler # 6 • 7 - Boiler #7 			
5. Discharge Type Code: (V) A STACK WITH AN UNOBSTRUCTED OPENING DISCHARGING IN A VERTICAL/NEARLY VERTICAL DIRECTION	6. Stack Height: 450 feet	7. Exit Diameter: 35 feet	
8. Exit Temperature: 131° F	9. Actual Volumetric Flow Rate: 3282000 acfm	10. Water Vapor: 9 %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: 16 East (km): 478.25 North (km): 3381.61		14. Emission Point Latitude/Longitude... Latitude: 30° 34' .34" N Longitude: 87° 13' 36.5" W	
15. Emission Point Comment: Existing stack used for by-pass operations for units 4&5@450ft;18ftdia;290degrees;Location:Z16,E478.53,N3381.49; Unit 6& 7@450ft;18ftdia, 316degrees, 2975540 acfm. location:Z16,E478.435,N3381.482			

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 5

1. Segment Description (Process/Fuel Type): Pulverized bituminous coal.		
2. Source Classification Code (SCC): 10100212	3. SCC Units: Tons Bituminous Coal Burned	
4. Maximum Hourly Rate: 45.71	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash: 9.3	9. Million Btu per SCC Unit: 24
10. Segment Comment: Primarily a coal fired unit. This unit is also capable of full load using natural gas. No. 2 fuel oil is used as a secondary fuel.		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 2 of 5

1. Segment Description (Process/Fuel Type): #2 fuel oil		
2. Source Classification Code (SCC): 10100501	3. SCC Units: 1000 Gallons Distillate Oil (No. 1 & 2) Burned	
4. Maximum Hourly Rate: 7.184	5. Maximum Annual Rate: 62931.84	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: .5	8. Maximum % Ash: .1	9. Million Btu per SCC Unit: 138
10. Segment Comment: #2 fuel oil as a back up fuel.		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 3 of 5

1. Segment Description (Process/Fuel Type): Natural gas.		
2. Source Classification Code (SCC): 10100604	3. SCC Units: Million Cubic Feet Natural Gas Burned	
4. Maximum Hourly Rate: .96	5. Maximum Annual Rate: 8409.6	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: .01	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1000
10. Segment Comment: Natural gas.		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 4 of 5

1. Segment Description (Process/Fuel Type): "Biomass" (wood, switchgrass, sawdust, and sander dust)		
2. Source Classification Code (SCC): 10100903	3. SCC Units: Tons Wood Burned	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Permit allows up to 97.7 MMBtu/hr of "biomass" (wood, switchgrass, sawdust, and sander dust) with TPH and TPY limits for each "biomass" fuel		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 5 of 5

1. Segment Description (Process/Fuel Type): On-specification used oil.		
2. Source Classification Code (SCC): 10101302	3. SCC Units: 1000 Gallons Waste Oil Burned	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Used oil specification: Arsenic 5 PPM, Cadmium 2 PPM, Chromium 10 PPM, Lead 100 PPM, Total Halogens 1000 PPM, PCB50 ppm.		
Is this a valid segment? Yes		

E. EMISSIONS UNIT POLLUTANTS**List of Pollutants Emitted by Emissions Unit**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code	Valid?
CO			NS	Yes
DIOX			NS	Yes
H014			NS	Yes
H015			EL	Yes
H017			NS	Yes
H021	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H027	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
H046	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
H047			NS	Yes
H095			NS	Yes
H106	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H107	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H113	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H114	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H133			NS	Yes
H150			EL	Yes
H151			NS	Yes
H161			NS	Yes
H162	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H169			NS	Yes
HAPS				Yes
NH3				Yes
NOX	LOW NOX BURNERS	NSCR (NON- SELECTIVE CATALYTIC REDUCTION)	EL	Yes
	WET SCRUBBER			

PB	HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
PM	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0- 99.9%)	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)	EL	Yes
PM10	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0- 99.9%)	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)	NS	Yes
SAM	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
SO2	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
VOC			NS	Yes

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: CO - Carbon Monoxide		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 38.4 lb/hour 168.19 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 40 LB/MMCF BURNED Reference: AP-42		7. Emissions Method Code: (3) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: [40 lb/mmcf] [.96 mmcf/hr] [8760 hr/yr] [1/2000] =168.19 tons/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Potential emissions highest with unit operates on natural gas.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: DIOX - Dioxin/Furan		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H014 - Antimony Compounds	2. Total Percent Efficiency of Control:
3. Potential Emissions: .04 lb/hour .16 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: .004935 LB/1000 GAL Reference: AP-42	7. Emissions Method Code: (3) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM.
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years
10. Calculation of Emissions: .004935 lb/kgal * 7.184 kgal/hr * 8760hr/yr * 1/2000 lb/ton = .16 ton/yr	
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H015 - Arsenic Compounds (inorganic including arsine)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour .02 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000592 LB/TON Reference: RAD		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000092 lb/ton * 45.71 t/hr * 8760 hr/yr * 1/2000 lb/ton = .02 t/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Limited to 5 ppm as specification of used oil. Assume no reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H017 - Benzene (including benzene from gasoline)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour .02 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000091 LB/TON Reference: EPRISR		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000091 lb/ton * 45.71 ton/hr * 8760 hr/yr * 1/2000 lb/ton =			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Assume no change from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H021 - Beryllium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour .02 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000103 LB/TON Reference:		7. Emissions Method Code: (2) CALCULATED BY USE OF MATERIAL BALANCE AND KNOWLEDGE OF THE PROCESS.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000103 lb/ton * 45.71 ton/hr * 8760 hr/yr * 1/2000 lb/ton * (1-.20)=.02			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Assume 20% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H027 - Cadmium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour .01 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000079 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000079 lb/ton * 45.71 ton/hr * 8760 hr/yr * 1/2000 lb/ton * (1-.20)= .01 ton/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Limited to 2 ppm as specification of used oil. Assume 20% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H046 - Chromium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .02 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .00045 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .00045 lb/ton * 45.71 ton/hr * 8760 hr/yr * 1/2000 lb/ton * (1-.20)reduction = .07			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Limited to 10 ppm as specification of used oil. Assume 20 % reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H047 - Cobalt Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .04 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .005217 LB/1000 GAL Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .005217 lb/1000gal * 7.184 kgal/hr = .04; Annual= .005217 * 62931.84/2000 = .16 ton			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H095 - Formaldehyde		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .02 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		.09 tons/year	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .00282 LB/1000 GAL Reference: EPRISR		7. Emissions Method Code: (2) CALCULATED BY USE OF MATERIAL BALANCE AND KNOWLEDGE OF THE PROCESS.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .00282 lb/kgal * 7.184 kgal/hr=.02 lb/hr; Annual = .00282 * 62931.84/2000=0.09 tons/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H107 - Hydrogen fluoride (Hydrofluoric acid)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 7.7 lb/hour 4 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .16848 LB/TON Reference: EPRI TR-105611		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr= .16848 lb/ton coal*45.71 ton/hr = 7.70lb/hr; Annual = (7.70 * 456 hr) + (8304 hrs *7.70 * (1-.93))* 1/2000 lb/ton = 4.0 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max potential emissions are based on by-pass mode. Annual= @93%control + 19 days by-pass = ton/yr;			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H113 - Manganese Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .02 lb/hour		.08 tons/year	
		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000542 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000542 lb/ton *45.71 ton/hr *(1-.20)reduction * 8760/2000 = .08			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Assume 20% reduction from the FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H114 - Mercury Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .006 lb/hour .02 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .00014 LB/TON Reference: GDW		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr= .00014 lb/ton coal*45.71 ton/hr = .006lb/hr; Annual = (.006 lb/hr * 456 hr) + (8304 hrs * .006 lb/hr * (1-.45)) * 1/2000 lb/ton = (30.12 lbs)or.02 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max hr potential emissions are based on by-pass mode. Annual = @45%control + 19 days by-pass= ton/yr;			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H133 - Nickel Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .17 lb/hour .75 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .02397 LB/1000 GAL Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .02397 lb/kgal * 7.184 kgal/hr * 8760 hr/yr * 1/2000 lb/ton = .75 ton/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H150 - Polychlorinated biphenyls (Aroclors)	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code:
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years
10. Calculation of Emissions:	
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Limited to 50 ppm as specification of used oil. No change from FGD; highest rate for used oil segment.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H151 - Polycyclic organic matter		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .02 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .003173 LB/1000 GAL Reference: RAD		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .003173 lb/kgal * 7.184 kgal/hr = .02; Annual = .003173*62931.84 kgal/2000 = .10 tons/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H161 - Radionuclides (including radon)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H162 - Selenium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .12 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .002541 LB/TON Reference: EPRI TR-105611		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr (By-pass mode)=.002541 lb/ton * 45.71 ton/hr =.12 lb/hr; Annual= (456 hrs *0.12)+ ((8304 hr * 0.12 lb/hr)*(1-.78)reduction)* 1/2000 lb/ton =.14 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max potential emissions are based on by-pass mode. Annual= @78%control + 19 days by-pass = ton/yr;Assume 78% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H169 - Toluene		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .01 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		.04 tons/year	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .001396 LB/1000 GAL Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .001396 lb/kgal * 7.184 kgal/hr = .01 lb/hr; Annual = .001396 * 62931.84 kgal/yr/2000 = .04 ton/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: HAPS - Total Hazardous Air Pollutants		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: NH3 - Ammonia		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: OTHER (SPECIFY IN COMMENT) Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: 5 ppmvd @ 3% O2; SNCR slip.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: NOX - Nitrogen Oxides		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 658.02 lb/hour 2882.13 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .52 LB/MMBTU Reference: PERMIT LIMIT		7. Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST-CASE ALLOWABLE EMISSION.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: [0.60 lb/mmBtu] [1096.7 mmBtu/hr] [8760 hr/yr] [1/2000]= 28882.13 tons/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: See Plantwide Limit- NOx emissions from units 4-7 will not exceed 0.2 lb/MMBtu of heat input on a rolling 30day average. Acid Rain Limit.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: (OTHER) assumed by applicant for other reasons (Explain in comment field)	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: .6 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 658.02 lb/hour 2882.13 tons/year
5. Method of Compliance: CEM annual average of Title V Phase II NOx Averaging Plan.	
6. Allowable Emissions Comment (Description of Operating Method): Crist Unit 5 is part of the Southern System NOx Averaging Plan for compliance with Phase II NOx limits. See 40 CFR Part 76 for details. No hrly annual equivalent allowable emissions necessary.	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PB - Lead - Total (elemental lead and lead compounds)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .01 lb/hour .04 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000259 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr (by-pass)=.000259 lb/ton * 45.71 ton/hr = .01 lb/hr; Annual = .01 lb/hr * 8760 hr/yr * 1/2000 lb/ton * (1-.20)reduction = .04 ton/yr.			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Limited to 100 ppm as specification of used oil.Assume 20% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: .3 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 329.01 lb/hour 600 tons/year
5. Method of Compliance: Test required when liquid a/o solid fuel fired >400 hrs/yr	
6. Allowable Emissions Comment (Description of Operating Method): During soot-blowing and load change for 3-hrs per 24-hr period .	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: .1 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 109.67 lb/hour 600 tons/year
5. Method of Compliance: Test required when liquid a/o solid fuel fired >400 hrs/yr	
6. Allowable Emissions Comment (Description of Operating Method): During normal operations.	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM10 - Particulate Matter - PM10		2. Total Percent Efficiency of Control: 99	
3. Potential Emissions: 21.25 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .465 LB/TON Reference: AP-42		7. Emissions Method Code: (3) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr (By-pass) = [.465 lb/ton of coal] [45.71 ton/hr] = 21.25lb/hr; Annual = (456 hr * 21.25 lb/hr) + [8304 hr/yr * 21.25 lb/hr * 1-.40]reduction]*[1/2000]=57.79 tons/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Assume 40% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SAM - Sulfuric Acid Mist		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 4.88 lb/hour 13.27 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 1.14 LB/TON Reference: EPRI & LARRY MONROE		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr(By-Pass)=(3063*.008 *(2.4*1096.7)*1/2000)* .49*.63*.49 = 4.88 lb/hr; Annual =(456 hr * 4.88 lb/hr)+ ((8304 hr *4.88 * (1-.40)reduction * 1/2000 lb/ton = 13.27 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: See Larry Monroe Acid Mist Paper. Assume 40% reduction from FGD.Unit has hot & cold ESP+Air Heater.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SO2 - Sulfur Dioxide		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 2632.8 lb/hour 1146.8 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 2.4 LB/MMBTU Reference: PERMIT LIMIT		7. Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST-CASE ALLOWABLE EMISSION.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr (By-pass)=2.4 lb/mmbtu * 1096 mmbtu/hr = 2632.8 lb/hr; Annual =(456 hr *2632.8)+ ((8304 hr *2632.8 * (1-.95))* 1/2000 = 1146.8 tons			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max potential emissions are based on coal firing during by-pass mode. Annual = @95%control + 19 days by-pass.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 2.4 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 2632.1 lb/hour 11528.5 tons/year
5. Method of Compliance: Daily 24 hour average based on CEM	
6. Allowable Emissions Comment (Description of Operating Method): While firing coal.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 2.4 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 2632.1 lb/hour 11528.5 tons/year
5. Method of Compliance: Daily 24 hour average based on CEM	
6. Allowable Emissions Comment (Description of Operating Method): While burning liquid fuel.	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: VOC - Volatile Organic Compounds	2. Total Percent Efficiency of Control:
3. Potential Emissions: 2.74 lb/hour 12.01 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year	
6. Emission Factor: .06 LB/TON Reference: FIRE	7. Emissions Method Code: (3) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM.
8.a. Baseline Actual Emissions (if required): tons/year	8.b. Baseline 24-month Period: From: To:
9.a. Projected Actual Emissions (if required): tons/year	9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years
10. Calculation of Emissions: .06 lb/ton * 45.71 ton/hr = 2.74; Annual = 2.74 lb/hr * 8760/2000 = 12.01	
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD;	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE40 - VISIBLE EMISSIONS - 40% NORMAL OPACITY	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 40% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment: During normal operations. Compliance shown through transmissometer (opacity meter).	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE60 - VISIBLE EMISSIONS - 60% NORMAL OPACITY	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 60% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment: During the 3-hrs in any 24 hr period allowed for boiler cleaning (soot blowing) and load change. Compliance shown through transmissometer (opacity meter).	

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 10

1. Parameter Code: EM - EMISSION	2. Pollutant(s): NOX
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Teco Model Number: 42D Serial Number: 42D-44859-272	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses Siemens and Teco analyzers to calculate unit NOx emission rate.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 2 of 10

1. Parameter Code: EM - EMISSION	2. Pollutant(s): SO2
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Teco Model Number: 43H Serial Number: 43H-44285-271	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Unit has elected to install and operate CEM for SO2 in lieu of monitoring emissions using fuel sampling and analysis under rule 62-296.405(1)(f)1.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 3 of 10

1. Parameter Code: VE - Visible emissions (opacity)	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Lear Siegler Model Number: SS-4542 Serial Number: 940601	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Unit required to monitor opacity under 62-96.405(1)(f)1.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 4 of 10

1. Parameter Code: CO2-- Carbon dioxide	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Siemens Model Number: ULTRAMAT 5E Serial Number: E3-729	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses the Siemens CO2 analyzer to measure the diluent component of the SO2 and NOX emission rate.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 5 of 10

1. Parameter Code: FLOW - Volumetric flow rate	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: United Science Model Number: ULTRAFLOW 100 Serial Number: 9401588	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses heat input measurements from flow to calculate hourly emissions.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 6 of 10

1. Parameter Code: VE - Visible emissions (opacity)	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Lear Siegler Model Number: SS-4542 Serial Number: 940602	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Unit required to monitor opacity under 62-96.405(1)(f)1.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 7 of 10

1. Parameter Code: EM - EMISSION	2. Pollutant(s): SO2
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Teco Model Number: 43H Serial Number: 43H-44334-271	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Unit has elected to install and operate CEM for SO2 in lieu of monitoring emissions using fuel sampling and analysis under rule 62-296.405(1)(f)1.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 8 of 10

1. Parameter Code: EM - EMISSION	2. Pollutant(s): NOX
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Teco Model Number: 42D Serial Number: 42D-42539-267	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses Siemens and Teco analyzers to calculate unit NOx emission rate.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 9 of 10

1. Parameter Code: CO2 - Carbon dioxide	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Siemens Model Number: ULTRAMAT 5E Serial Number: E3-730	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses the Siemens CO2 analyzer to measure the diluent component of the SO2 and NOX emission rate.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 10 of 10

1. Parameter Code: FLOW - Volumetric flow rate	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: United Science Model Number: ULTRAFLOW 100 Serial Number: 9401591	
5. Installation Date: 01-JUL-94	6. Performance Specification Test Date: 24-JUL-94
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses heat input measurements from flow to calculate hourly emissions.	
Status: Active	

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>6. Compliance Demonstration Reports/Records</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p> <p style="padding-left: 40px;"><input type="checkbox"/> To Be Submitted, Date (if known):</p> <p>Previously Submitted Test Date(s)/Pollutants Tested:</p> <p>To be Submitted Test Date(s)/Pollutants Tested:</p> <p>Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.</p>
<p>7. Other Information Required by Rule or Statute</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Attachment</p>

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements	<input checked="" type="checkbox"/> Applicable	<input checked="" type="checkbox"/> Attachment
2. Compliance Assurance Monitoring Plan	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
3. Alternative Methods of Operation	<input checked="" type="checkbox"/> Applicable	<input checked="" type="checkbox"/> Attachment
4. Alternative Modes of Operation (Emissions Trading)	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
5. Acid Rain Part Application		
Certificate of Representation (EPA Form No. 7610-1)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Acid Rain Part (Form No. 62-210.900(1)(a))	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
New Unit Exemption (Form No. 62-210.900(1)(a)2.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment

Additional Requirements for Air Construction Permit Applications

- | | | |
|---|-------------------------------------|-------------------------------------|
| 1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) | <input type="checkbox"/> Applicable | <input type="checkbox"/> Attachment |
| 2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.) | <input type="checkbox"/> Applicable | <input type="checkbox"/> Attachment |
| 3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) | <input type="checkbox"/> Applicable | <input type="checkbox"/> Attachment |

Other Information Regarding this Emissions Unit

- | | | |
|-------------------------------------|--|--|
| 1. Other Emissions Unit Information | <input checked="" type="checkbox"/> Applicable | <input checked="" type="checkbox"/> Attachment |
|-------------------------------------|--|--|
- Note: Provide any other information related to the emissions unit addressed in this Emissions Unit Information Section that is not elsewhere provided in the application, not otherwise required and that you, the applicant, believe may be helpful.

Additional Requirements Comment

(1) fuel analyses have previously been submitted, (2) a detailed description of the FGD control equipment is included with the facility attachments, and (3) a description of stack sampling facilities for the new FGD stack will be provided when available.
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Emission Unit Attachments

Supplemental Item	Electronic File Name	Attachment Description	Electronic Document	Date Uploaded
Other Emissions Unit Information	Criststacksiteplan.pdf	Crist Stack Site Plan.	Yes	10/24/2006
	Chimney Sketch rev1-Layout1.pdf	Crist Chimney Sketch Layout.	Yes	10/24/2006
Identification of Applicable Requirements	Crist5EPARuleList.pdf	Crist 5 EPA Rule List.	Yes	10/25/2006
	FDEPTitleVCoreList.pdf	Crist 5 FDEP Title V Core List.	Yes	10/25/2006
	Crist5FDEPRuleList.pdf	Crist 5 FDEP Rule List.	Yes	10/25/2006
Alternative Methods of Operation	Crist 5Methods.doc	Crist 5 Alternative Methods of Operation Updated.	Yes	10/20/2006

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section:
Boiler # 6

3. Emissions Unit Identification Number: 6

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date: 01-MAY-70	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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9. Package Unit FOSTER WHEELER Model Number:
Manufacturer:

10. Generator Nameplate Rating: 369 MW

11. Emissions Unit Comment:
Crist Unit 6 is a Foster Wheeler front wall fired, dry bottom boiler. The primary fuels are coal and natural gas. Distillate #2 fuel oil is combusted as a secondary fuel.

Emissions Unit Control Equipment

Code	Equipment	Description
10	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0-99.9%)	Cold side electrostatic precipitator manufactured by Wheelabrator; model number HaRDE.
107	SELECTIVE NONCATALYTIC REDUCTION FOR NOX	6 injection ports for injecting urea to achieve approx. 20% reduction in NOx for compliance with facility-wide NOx cap of 0.2 lb/MMBtu
24	MODIFIED FURNACE/BURNER DESIGN	Delete item. Now have Low NOx Burners entry available.
1	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)	Unit 6 flue gas emissions will be incorporated with Units 4,6 and 7 to a single Wet FGD scrubber system. Unit 6 will have a by-pass stack for startup, shutdown and malfunction.
205	LOW NOX BURNERS	Low NOx Burners were installed on Unit 6 as part of Phase I of the Acid Rain Program

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:		
2. Maximum Production Rate:		
3. Maximum Heat Input Rate:	3704.8 million Btu/hr	
4. Maximum Incineration Rate:	pounds/hr	
	tons/day	
5. Requested Maximum Operating Schedule:	24 hours/day	7 days/week
	52 weeks/year	8760 hours/year
6. Operating Capacity/Schedule Comment:	3704.8 mmBtu/hr for coal and NG, 714.8 mmBtu/hr for #2 fuel oil and on-specification oil. Compliance by fuel records.	

C. EMISSION POINT (STACK/VENT) INFORMATION
 (Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: SINGLE COMMON BY-PASS STACK SHARED BY UNITS 4, 5, 6 & 7		2. Emission Point Type Code: 2 - An emission point serving 2 or more EU's capable of simultaneous operation	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <ul style="list-style-type: none"> • 4 - Boiler #4 • 5 - Boiler #5 • 7 - Boiler #7 			
5. Discharge Type Code: (V) A STACK WITH AN UNOBSTRUCTED OPENING DISCHARGING IN A VERTICAL/NEARLY VERTICAL DIRECTION		6. Stack Height: 450 feet	7. Exit Diameter: 35 feet
8. Exit Temperature: 131° F	9. Actual Volumetric Flow Rate: 3282000 acfm	10. Water Vapor: 9 %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: 16 East (km): 478.25 North (km): 3381.61		14. Emission Point Latitude/Longitude... Latitude: 30° 34' .34" N Longitude: 87° 13' 36.5" W	
15. Emission Point Comment: Existing stack used for by-pass operations for units 4&5@450ft;18ftdia;290degrees;Location:Z16,E478.53,N3381.49; Unit 6& 7@450ft;18ftdia, 316degrees, 2975540 acfm. location:Z16,E478.435,N3381.482			

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 4

1. Segment Description (Process/Fuel Type): Boiler fired with pulverized bituminous coal.		
2. Source Classification Code (SCC): 10100202	3. SCC Units: Tons Bituminous Coal Burned	
4. Maximum Hourly Rate: 154.37	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash: 9.3	9. Million Btu per SCC Unit: 24
10. Segment Comment: Unit 6 is primarily a coal fired unit. This unit is also capable of full load using natural gas. No. 2 fuel oil is used as a secondary fuel.		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type): Boiler fired with No. 2 fuel oil.		
2. Source Classification Code (SCC): 10100501	3. SCC Units: 1000 Gallons Distillate Oil (No. 1 & 2) Burned	
4. Maximum Hourly Rate: 5.184	5. Maximum Annual Rate: 45411.84	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: .5	8. Maximum % Ash: .1	9. Million Btu per SCC Unit: 138
10. Segment Comment: #2 oil used for startup and flame stabilization.		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 3 of 4

1. Segment Description (Process/Fuel Type): Boiler fired with natural gas.		
2. Source Classification Code (SCC): 10100601	3. SCC Units: Million Cubic Feet Natural Gas Burned	
4. Maximum Hourly Rate: 3.2	5. Maximum Annual Rate: 28032	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: .01	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1000
10. Segment Comment: Natural gas		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type): On-specification used oil.		
2. Source Classification Code (SCC): 10101302	3. SCC Units: 1000 Gallons Waste Oil Burned	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Used oil specification: Arsenic 5 PPM, Cadmium 2 PPM, Chromium 10 PPM, Lead 100 PPM, Total Halogens 1000 PPM, PCB 50 ppm.		
Is this a valid segment? Yes		

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code	Valid?
CO			NS	Yes
DIOX			NS	Yes
H014			NS	Yes
H015			EL	Yes
H017			NS	Yes
H021	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H027	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
H046	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
H047			NS	Yes
H095			NS	Yes
H106	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H107	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H113	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H114	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H133			NS	Yes
H150			EL	Yes
H151			NS	Yes
H161			NS	Yes
H162	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H169			NS	Yes
HAPS				Yes
NH3			WP	Yes
NOX	LOW NOX BURNERS	SELECTIVE NONCATALYTIC REDUCTION FOR NOX	EL	Yes
	WET SCRUBBER			

PB	HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
PM	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0- 99.9%)	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)	EL	Yes
PM10	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0- 99.9%)	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)	NS	Yes
SAM	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
SO2	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
VOC			NS	Yes

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: DIOX - Dioxin/Furan		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H014 - Antimony Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .03 lb/hour .11 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .004935 LB/1000 GAL Reference: AP-42		7. Emissions Method Code: (3) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .004935 lb/kgal*5.184kgal/hr * 8760hr/yr * 1/2000 lb/ton = . ton/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H021 - Beryllium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .01 lb/hour		.06 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000103 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000103 lb/ton*154.37on/hr * 8760 hr/yr * 1/2000 lb/ton * (1-.20)=.02			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Assume 20% reduction from the FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H046 - Chromium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .06 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .00045 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .00045 lb/ton*154.37 ton/hr * 8760 hr/yr * 1/2000 lb/ton * (1-.20)reduction = .24			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Limited to 10 ppm as specification of used oil.Assume 20% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H047 - Cobalt Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .03 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		.12 tons/year	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .005217 LB/1000 GAL Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .005217 lb/kgal * 5.184 kgal/hr * 8760 hr/yr * 1/2000 lb/ton =			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H095 - Formaldehyde		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .015 lb/hour		.06 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .00282 LB/1000 GAL Reference: EPRISR		7. Emissions Method Code: (2) CALCULATED BY USE OF MATERIAL BALANCE AND KNOWLEDGE OF THE PROCESS.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .00282 lb/kgal * 5.184 kgal/hr=.015 lb/hr; Annual = .00282 * 62931.84/2000=0.06 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H106 - Hydrogen chloride (Hydrochloric acid)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 268.6 lb/hour		94.7 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 1.74 LB/TON Reference: EPRI TR-105611		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr= 1.74 lb/ton coal*154.37 ton/hr = 268.6; Annual = (268.6 * 456 hr) + (8304 hrs *268.6 * (1-.97))* 1/2000 lb/ton = 94.70 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max potential emissions are based on by-pass mode. Annual= @97%control + 19 days by-pass = 94.7 ton/yr; Assume97% reduction of HCL from FGD based on EPRI report.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H113 - Manganese Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .08 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000542 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000542 lb/ton * 154.37ton/hr *(1-.20)reduction * 8760/2000 =.29 ton/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Assume 20% reduction from the FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H114 - Mercury Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .02 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		.05 tons/year	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .00014 LB/TON Reference: GDW		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr= .00014 lb/ton coal*154.37 ton/hr = .02 lb/hr; Annual = (.02 lb/hr * 456 hr) + (8304 hrs * .02 lb/hr * (1-.45))* 1/2000 lb/ton = (108.5 lbs)or.05 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max hr potential emissions are based on by-pass mode. Annual = @45%control + 19 days by-pass= ton/yr;			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H133 - Nickel Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .12 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		.54 tons/year	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .02397 LB/1000 GAL Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .02397 lb/kgal*5.184 kgal/hr * 8760 hr/yr * 1/2000 lb/ton = .54 ton/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H151 - Polycyclic organic matter		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .02 lb/hour .07 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .003173 LB/1000 GAL Reference: RAD		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .003173 lb/kgal * 5.184 kgal/hr= .02; Annual = .003173*45411.84 kgal/2000 = .07 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H161 - Radionuclides (including radon)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H162 - Selenium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .39 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .002541 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr (By-pass mode)=.002541 lb/ton * 154.37 ton/hr =.39 lb/hr; Annual= (456 hrs *0.39)+ ((8304 hr * 0.39 lb/hr)*(1-.78)reduction)* 1/2000 lb/ton =.45 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max potential emissions are based on by-pass mode. Annual= @78%control + 19 days by-pass = ton/yr;Assume 78% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H169 - Toluene		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .01 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .001396 LB/1000 GAL Reference: EPRISR		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .001396 lb/kgal * 5.184 kgal/hr = .01 lb/hr; Annual = .001396 * 45411.84 kgal/yr/2000 = .03 ton/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: NH3 - Ammonia		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: 5 ppm designed target emission rate. Not emissions limited.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: (OTHER) assumed by applicant for other reasons (Explain in comment field)	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: .45 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 1667.16 lb/hour 7302.16 tons/year
5. Method of Compliance: CEM annual average of Title V Phase II NOx Averaging Plan.	
6. Allowable Emissions Comment (Description of Operating Method): Crist Unit 6 is part of the Southern System NOx Averaging Plan for compliance with Phase II NOx limits. See 40 CFR Part 76 for details. No hrly annual equivalent allowable emissions necessary.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: (AMBIENT) reduce impact on ambient concentrations (Explain in comment field)	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: .2 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance: CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Facility-wide limit, 30-day rolling average except for periods when Unit 7 is shut down.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM - Particulate Matter - Total		2. Total Percent Efficiency of Control: 99	
3. Potential Emissions: 1111.44 lb/hour 682.43 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .3 LB/MMBTU Reference: PERMIT LIMIT		7. Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST-CASE ALLOWABLE EMISSION.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: 1 hr Max (By-pass)lb/hr = 3704.8 mmBtu/hr*0.3 lb/mmBtu (SB standard)= 1111.44lb/hr. TPY = (456 hrs * 3704.8 * .125lb/mmbtu) + ((8304 hrs * 3704.8 mmBtu/hr*0.125 lb/mmBtu * (1-.70) reduction *1 ton/2000 lb =682.43 TPY			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Annual =Emission factor avg based on 0.1 lb/MMBtu for 21 hours (steady- state)and 0.3 lb/MMBtu for 3 hours (soot-blowing). Assume 70% reduction from FGD. 19 days- bypass			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: .3 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 1111.4 lb/hour 1475 tons/year
5. Method of Compliance: Test required when liquid a/o solid fuel fired >400 hrs/yr	
6. Allowable Emissions Comment (Description of Operating Method): Soot blow	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: .1 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 370.5 lb/hour 1475 tons/year
5. Method of Compliance: Test required when liquid a/o solid fuel fired >400 hrs/yr	
6. Allowable Emissions Comment (Description of Operating Method): During normal operations.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: SAM - Sulfuric Acid Mist		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 26.16 lb/hour		71.13 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 1.14114 LB/TON Reference: AP-42		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr(By-Pass)=(3063*.008 *(2.4*3704.8)*1/2000)* .49*.49 = 26.16 lb/hr; Annual =(456 hr * 26.16 lb/hr)+ ((8304 hr *36.16 * (1-.40)reduction * 1/2000 lb/ton = 71.13 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: See Larry Monroe Acid Mist Paper. Assume 40% reduction from FGD.Unit has cold ESP+Air Heater.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION - ALLOWABLE EMISSIONS

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 2.4 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 8891.52 lb/hour 38944.86 tons/year
5. Method of Compliance: Daily 24 hour average based on CEM	
6. Allowable Emissions Comment (Description of Operating Method): While firing solid fuel.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 2.4 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 1715.52 lb/hour 7513.9 tons/year
5. Method of Compliance: Daily 24 hour average based on CEM	
6. Allowable Emissions Comment (Description of Operating Method): While firing liquid fuel. Test not required unless liquid fuel is used.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE40 - VISIBLE EMISSIONS - 40% NORMAL OPACITY	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 40% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment: During normal operations. Compliance shown through transmissometer (opacity meter).	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: VE60 - VISIBLE EMISSIONS - 60% NORMAL OPACITY	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 60% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment: During the 3-hrs in any 24 hr period allowed for boiler cleaning (soot blowing) and load change. Compliance shown through transmissometer (opacity meter).	

H. CONTINUOUS MONITOR INFORMATION**Complete if this emissions unit is or would be subject to continuous monitoring.****Continuous Monitoring System:** Continuous Monitor 1 of 6

1. Parameter Code: VE - Visible emissions (opacity)	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Lear Siegler Model Number: SS-4542 Serial Number: 926231	
5. Installation Date: 01-DEC-92	6. Performance Specification Test Date: 01-SEP-93
7. Continuous Monitor Comment: Unit required to monitor opacity under 62-96.405(1)(f)1.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 2 of 6

1. Parameter Code: EM - EMISSION	2. Pollutant(s): SO2
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Teco Model Number: 43H Serial Number: 43H-38206-257	
5. Installation Date: 01-DEC-92	6. Performance Specification Test Date: 24-SEP-93
7. Continuous Monitor Comment: Unit has elected to install and operate CEM for SO2 in lieu of monitoring emissions using fuel sampling and analysis under rule 62-296.405(1)(f)1.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 3 of 6

1. Parameter Code: EM - EMISSION	2. Pollutant(s): NOX
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Teco Model Number: 42D Serial Number: 42D-38570-258	
5. Installation Date: 01-DEC-92	6. Performance Specification Test Date: 01-SEP-93
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses Siemens and Teco analyzers to calculate unit NOx emission rate.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 4 of 6

1. Parameter Code: CO2 - Carbon dioxide	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Siemens Model Number: ULTRAMAT 5E Serial Number: C4-136	
5. Installation Date: 01-DEC-92	6. Performance Specification Test Date: 01-SEP-93
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses the Siemens CO2 analyzer to measure the diluent component of the SO2 and NOX emission rate. Unit is required to monitor CO2 under 2-296.405(
Status: Active	

Continuous Monitoring System: Continuous Monitor 5 of 6

1. Parameter Code: FLOW - Volumetric flow rate	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: UNITED SCIENCE Model Number: ULTRAFLOW100 Serial Number: 9707016A	
5. Installation Date: 01-SEP-93	6. Performance Specification Test Date: 24-SEP-93
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses heat input measurements from flow to calculate hourly emissions.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 6 of 6

1. Parameter Code: FLOW - Volumetric flow rate	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: UNITED SCIENCE Model Number: ULTRAFLOW100 Serial Number: 9707016B	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	
Status: Active	

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>6. Compliance Demonstration Reports/Records</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p> <p style="padding-left: 40px;"><input type="checkbox"/> To Be Submitted, Date (if known):</p> <p>Previously Submitted Test Date(s)/Pollutants Tested:</p> <p>To be Submitted Test Date(s)/Pollutants Tested:</p> <p>Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.</p>
<p>7. Other Information Required by Rule or Statute</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Attachment</p>

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements	<input checked="" type="checkbox"/> Applicable	<input checked="" type="checkbox"/> Attachment
2. Compliance Assurance Monitoring Plan	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
3. Alternative Methods of Operation	<input checked="" type="checkbox"/> Applicable	<input checked="" type="checkbox"/> Attachment
4. Alternative Modes of Operation (Emissions Trading)	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
5. Acid Rain Part Application		
Certificate of Representation (EPA Form No. 7610-1)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Acid Rain Part (Form No. 62-210.900(1)(a))	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
New Unit Exemption (Form No. 62-210.900(1)(a)2.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment

Additional Requirements for Air Construction Permit Applications

- | |
|---|
| 1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e))
<input type="checkbox"/> Applicable <input type="checkbox"/> Attachment |
| 2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.)
<input type="checkbox"/> Applicable <input type="checkbox"/> Attachment |
| 3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only)
<input type="checkbox"/> Applicable <input type="checkbox"/> Attachment |

Other Information Regarding this Emissions Unit

- | |
|--|
| 1. Other Emissions Unit Information
<input checked="" type="checkbox"/> Applicable <input checked="" type="checkbox"/> Attachment
Note: Provide any other information related to the emissions unit addressed in this Emissions Unit Information Section that is not elsewhere provided in the application, not otherwise required and that you, the applicant, believe may be helpful. |
|--|

Additional Requirements Comment

(1) fuel analyses have previously been submitted, (2) a detailed description of the FGD control equipment is included with the facility attachments, and (3) a description of stack sampling facilities for the new FGD stack will be provided when available.
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Emission Unit Attachments

Supplemental Item	Electronic File Name	Attachment Description	Electronic Document	Date Uploaded
Other Emissions Unit Information	Criststacksiteplan.pdf	Crist Stack Site Plan.	Yes	10/24/2006
	Chimney Sketch rev1-Layout1.pdf	Crist Chimney Sketch Layout.	Yes	10/24/2006
Identification of Applicable Requirements	Crist6EPARuleList.pdf	Crist 6 EPA Rule List.	Yes	10/25/2006
	FDEPTitleVCoreList.pdf	Crist 6 FDEP Title V Core List.	Yes	10/25/2006
	Crist6FDEPRuleList.pdf	Crist 6 FDEP Rule List.	Yes	10/25/2006
Alternative Methods of Operation	Crist 6Methods.doc	Crist 6 Alternative Methods of Operation Update.	Yes	10/20/2006

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section:
Boiler #7

3. Emissions Unit Identification Number: 7

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date: 01-AUG-73	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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9. Package Unit FOSTER WHEELER Model Number:
Manufacturer:

10. Generator Nameplate Rating: 578 MW

11. Emissions Unit Comment:
Crist Unit 7 is a Foster Wheeler rear wall fired, dry bottom boiler. The primary fuels are coal and natural gas. Distillate #2 fuel oil is combusted as a secondary fuel.

Emissions Unit Control Equipment

Code	Equipment	Description
10	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0-99.9%)	Cold side ESP manufactured by Buell; to be replaced w/new Alstom Power cold-side ESP by May 1, 2005
24	MODIFIED FURNACE/BURNER DESIGN	Delete item; Now have Low NOx Burners entry.
139	SCR (SELECTIVE CATALYTIC REDUCTION)	Automated ammonia injection with catalytic reduction; scheduled for completion by May 1, 2005. Completed and tested on Sept 27, 2005.
1	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)	Unit 7 flue gas emissions will be incorporated with Units 4,5 and 6 to a single Wet FGD scrubber system. Unit 7 will have a by-pass stack for startup, shutdown and malfunction.
205	LOW NOX BURNERS	Low NOx Burners were installed as part of Phase I of the Acid Rain Program.

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:		
2. Maximum Production Rate:		
3. Maximum Heat Input Rate:	6406.4 million Btu/hr	
4. Maximum Incineration Rate:	pounds/hr	
	tons/day	
5. Requested Maximum Operating Schedule:	24 hours/day	7 days/week
	52 weeks/year	8760 hours/year
6. Operating Capacity/Schedule Comment:	6406.4 mmBtu/hr for coal and NG, 1282 mmBtu/hr for #2 fuel oil and on-specification oil. Compliance by fuel records.	

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: SINGLE COMMON BY-PASS STACK SHARED BY UNITS 4, 5, 6 & 7		2. Emission Point Type Code: 2 - An emission point serving 2 or more EU's capable of simultaneous operation	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <ul style="list-style-type: none"> • 4 - Boiler #4 • 5 - Boiler #5 • 6 - Boiler # 6 			
5. Discharge Type Code: (V) A STACK WITH AN UNOBSTRUCTED OPENING DISCHARGING IN A VERTICAL/NEARLY VERTICAL DIRECTION		6. Stack Height: 450 feet	7. Exit Diameter: 35 feet
8. Exit Temperature: 131° F	9. Actual Volumetric Flow Rate: 3282000 acfm	10. Water Vapor: 9 %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: 16 East (km): 478.25 North (km): 3381.61		14. Emission Point Latitude/Longitude... Latitude: 30° 34' .34" N Longitude: 87° 13' 36.5" W	
15. Emission Point Comment: Existing stack used for by-pass operations for units 4&5@450ft;18ftdia;290degrees;Location:Z16,E478.53,N3381.49; Unit 6& 7@450ft;18ftdia, 316degrees, 2975540 acfm. location:Z16,E478.435,N3381.482			

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 4

1. Segment Description (Process/Fuel Type): Boiler fired with pulverized bituminous coal.		
2. Source Classification Code (SCC): 10100202	3. SCC Units: Tons Bituminous Coal Burned	
4. Maximum Hourly Rate: 266.93	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash: 9.3	9. Million Btu per SCC Unit: 24
10. Segment Comment: Unit 7 is primarily a coal fired unit. This unit is also capable of full load using natural gas. No. 2 fuel oil is used as a secondary fuel.		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type): Boiler fired with No. 2 fuel oil.		
2. Source Classification Code (SCC): 10100501	3. SCC Units: 1000 Gallons Distillate Oil (No. 1 & 2) Burned	
4. Maximum Hourly Rate: 5.184	5. Maximum Annual Rate: 45411.84	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: .5	8. Maximum % Ash: .1	9. Million Btu per SCC Unit: 138
10. Segment Comment: #2 oil used for startup and flame stabilization.		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 3 of 4

1. Segment Description (Process/Fuel Type): Boiler fired with natural gas.		
2. Source Classification Code (SCC): 10100601	3. SCC Units: Million Cubic Feet Natural Gas Burned	
4. Maximum Hourly Rate: 3.2	5. Maximum Annual Rate: 28032	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: .01	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1000
10. Segment Comment: Natural gas		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type): On-specification used oil.		
2. Source Classification Code (SCC): 10101302	3. SCC Units: 1000 Gallons Waste Oil Burned	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Used oil specification: Arsenic 5 PPM, Cadmium 2 PPM, Chromium 10 PPM, Lead 100 PPM, Total Halogens 1000 PPM, PCB 50 ppm.		
Is this a valid segment? Yes		

E. EMISSIONS UNIT POLLUTANTS**List of Pollutants Emitted by Emissions Unit**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code	Valid?
CO			NS	Yes
DIOX			NS	Yes
H014			NS	Yes
H015			EL	Yes
H017			NS	Yes
H021	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H027	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
H046	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
H047			NS	Yes
H095			NS	Yes
H106	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H107	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H113	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H114	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H133			NS	Yes
H150			EL	Yes
H151			NS	Yes
H161			NS	Yes
H162	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
H169			NS	Yes
HAPS				Yes
NOX	SCR (SELECTIVE CATALYTIC REDUCTION)	LOW NOX BURNERS	EL	Yes
PB	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		EL	Yes

PM	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0- 99.9%)	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)	EL	Yes
PM10	ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY (95.0- 99.9%)	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)	NS	Yes
SAM	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		NS	Yes
SO2	WET SCRUBBER HIGH EFFICIENCY (95.0-99.9%)		EL	Yes
VOC			NS	Yes

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: CO - Carbon Monoxide		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 133.47 lb/hour		584.58 tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .5 LB/TON Reference: AP-42		7. Emissions Method Code: (3) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: [.5 lb/ton of coal] [266.93 ton/hr] [8760 hr/yr] [1/2000]= 584.58 tona/yr Source: AP-42			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: DIOX - Dioxin/Furan		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H014 - Antimony Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .05 lb/hour .2 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .004935 LB/1000 GAL Reference: AP-42		7. Emissions Method Code: (3) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .004935 lb/kgal * 9.29 kgal/hr * 8760hr/yr * 1/2000 lb/ton = .20 ton/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H015 - Arsenic Compounds (inorganic including arsine)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .02 lb/hour .1 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000092 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000092 lb/ton * 266.93 t/hr * 8760 hr/yr * 1/2000 lb/ton = .1 t/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Limited to 5 ppm as specification of used oil. Assume no reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H017 - Benzene (including benzene from gasoline)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .02 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		.1 tons/year	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000091 LB/TON Reference: EPRISR		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000091 lb/ton*266.93 ton/hr * 8760 hr/yr * 1/2000 lb/ton = .1 t/y			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Assume no change from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H027 - Cadmium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .02 lb/hour .07 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000079 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .000079 lb/ton * 266.93 ton/hr * 8760 hr/yr * 1/2000 lb/ton * (1-.20)= .07 ton/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Limited to 2 ppm as specification of used oil. Assume 20% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H046 - Chromium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .12 lb/hour .42 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .00045 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .00045 lb/ton * 266.93 ton/hr * 8760 hr/yr * 1/2000 lb/ton * (1-.20)reduction = .42			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Limited to 10 ppm as specification of used oil. Assume a 20% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H133 - Nickel Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .22 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
.98 tons/year			
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .02397 LB/1000 GAL Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .02397 lb/kgal * 9.29 kgal/hr * 8760 hr/yr * 1/2000 lb/ton = .98 ton/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H150 - Polychlorinated biphenyls (Aroclors)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: Limited to 50 ppm as specification of used oil.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H161 - Radionuclides (including radon)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H162 - Selenium Compounds		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .68 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .002541 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr (By-pass mode)=.002541 lb/ton * 266.93 ton/hr =.68 lb/hr; Annual=(456 hrs *0.68)+((8304 hr * 0.68 lb/hr)*(1-.78)reduction)* 1/2000 lb/ton =.77 tons/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max potential emissions are based on by-pass mode. Annual= @78%control + 19 days by-pass = ton/yr;Assume 78% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: H169 - Toluene		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .01 lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .001396 LB/1000 GAL Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: .001396 lb/kgal * 9.29kgal/hr = .01 lb/hr; Annual = .001396 * 81406.68kgal/yr/2000 = .06 ton/yr			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: No change from FGD; highest rate for oil segment.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: HAPS - Total Hazardous Air Pollutants		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment:			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: (OTHER) assumed by applicant for other reasons (Explain in comment field)	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: .45 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 2882.88 lb/hour 12627 tons/year
5. Method of Compliance: CEM annual average of Title V Phase II NOx Averaging Plan.	
6. Allowable Emissions Comment (Description of Operating Method): Crist Unit 7 is part of the Gulf/Mississippi Power NOx Averaging Plan for compliance with Phase II NOx limits. See 40 CFR Part 76 for details. No hrly annual equivalent allowable emissions necessary.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions: 27-SEP-05
3. Allowable Emissions and Units: .15 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 960.9 lb/hour 4208.7 tons/year
5. Method of Compliance: NOx CEMS, 30-day rolling average	
6. Allowable Emissions Comment (Description of Operating Method): SCR completed and tested on 09/27/05. Unit 7 must meet this interim standard until other control strategies are final and plant-wide NOx standard applies. Dead-line of May 1, 2006.	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PB - Lead - Total (elemental lead and lead compounds)		2. Total Percent Efficiency of Control:	
3. Potential Emissions: .06 lb/hour .28 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .000259 LB/TON Reference:		7. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN AP-42/FIRE SYSTEM.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: Max Hr (by-pass)=.000259 lb/ton * 45.71 ton/hr = .01 lb/hr; Annual = .01 lb/hr * 8760 hr/yr * 1/2000 lb/ton * (1-.20)reduction = .04 ton/yr			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Limited to 100 ppm as specification of used oil. Assume 20% reduction from FGD.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM - Particulate Matter - Total		2. Total Percent Efficiency of Control: 99	
3. Potential Emissions: 1921.9 lb/hour 1180.1 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: .3 LB/MMBTU Reference: PERMIT LIMIT		7. Emissions Method Code: (0) EQUAL TO EQUIVALENT ALLOWABLE EMISSION/WORST-CASE ALLOWABLE EMISSION.	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: 1 hr Max (By-pass)lb/hr = 6406.4 mmBtu/hr*0.3 lb/mmBtu = 1921.9 lb/hr. TPY =(456 hrs * 6406.4 mmbtu/hr * .125 lb/mmbtu) + ((8304 hrs * 6406.4 mmBtu/hr*0.125 lb/mmBtu * (1-.70) reduction *1 ton/2000 lb =1180.1 TPY			
11. Pollutant Potential,Fugitive, and Actual Emissions Comment: Max Hr= Soot Blow Standard; Annual Avg. Emission factor based on 0.1 lb/MMBtu for 21 hours (steady- state)plus 0.3 lb/MMBtu for 3 hours (soot-blowing). Assume 70% reduction from FGD.19 days =bypass.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: .3 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 1921.9 lb/hour 3507.5 tons/year
5. Method of Compliance: Test required when liquid a/o solid fuel fired >400 hrs/yr	
6. Allowable Emissions Comment (Description of Operating Method): During soot-blowing and load change for 3-hrs per 24-hr period .	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: .1 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 640.6 lb/hour 3507.5 tons/year
5. Method of Compliance: Test required when liquid a/o solid fuel fired >400 hrs/yr	
6. Allowable Emissions Comment (Description of Operating Method): During normal operations.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions: 18-MAY-04
3. Allowable Emissions and Units: 2.4 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 15375.36 lb/hour 67344.08 tons/year
5. Method of Compliance: Daily 24 hour average based on CEM	
6. Allowable Emissions Comment (Description of Operating Method): While firing solid fuel.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: (RULE) required by rule specified in regulation	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 2.75 POUNDS PER MILLION BTU HEAT INPUT	4. Equivalent Allowable Emissions: 3525.5 lb/hour 15441.7 tons/year
5. Method of Compliance: Daily 24 hour average based on CEM	
6. Allowable Emissions Comment (Description of Operating Method): While firing liquid fuel.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 3

1. Visible Emissions Subtype: VE20 - VISIBLE EMISSIONS - 20% NORMAL OPACITY	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: 27% Maximum Period of Excess Opacity Allowed: 6 min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment: New opacity limit is effective after completion of the new ESP; compliance by COMS	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 3

1. Visible Emissions Subtype: VE40 - VISIBLE EMISSIONS - 40% NORMAL OPACITY	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 40% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment: During normal operations. Compliance shown through transmissometer (opacity meter).	

Visible Emissions Limitation: Visible Emissions Limitation 3 of 3

<p>1. Visible Emissions Subtype: VE60 - VISIBLE EMISSIONS - 60% NORMAL OPACITY</p>	<p>2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other</p>
<p>3. Allowable Opacity: Normal Conditions: 60% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour</p>	
<p>4. Method of Compliance:</p>	
<p>5. Visible Emissions Comment: During the 3-hrs in any 24 hr period allowed for boiler cleaning (soot blowing) and load change. Compliance shown through transmissometer (opacity meter).</p>	

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 7

1. Parameter Code: EM - EMISSION	2. Pollutant(s): SO2
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Teco Model Number: 43H Serial Number: 43H-38026-257	
5. Installation Date: 01-DEC-92	6. Performance Specification Test Date: 01-DEC-92
7. Continuous Monitor Comment: Unit has elected to install and operate CEM for SO2 in lieu of monitoring emissions using fuel sampling and analysis under rule 62-296.405(1)(f)1.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 2 of 7

1. Parameter Code: EM - EMISSION	2. Pollutant(s): NOX
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Teco Model Number: 42D Serial Number: 42D-38571-258	
5. Installation Date: 01-DEC-92	6. Performance Specification Test Date: 01-DEC-92
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses Siemens and Teco analyzers to calculate unit NOx emission rate.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 3 of 7

1. Parameter Code: CO2 - Carbon dioxide	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Siemens Model Number: ULTRAMAT 5E Serial Number: C5-137	
5. Installation Date: 01-DEC-92	6. Performance Specification Test Date: 01-DEC-92
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses the Siemens CO2 analyzer to measure the diluent component of the SO2 and NOX emission rate.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 4 of 7

1. Parameter Code: FLOW - Volumetric flow rate	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: United Science Model Number: Ultraflow 100 Serial Number: 9401632	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment: Spectrum Systems Model 300 Dilution Monitoring System uses heat input measurements from flow to calculate hourly emissions. CEM flow monitors are required under Title IV 40 CFR Part 75.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 5 of 7

1. Parameter Code: VE - Visible emissions (opacity)	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: Lear Siegler Model Number: SS-4542 Serial Number: 926232	
5. Installation Date: 01-DEC-92	6. Performance Specification Test Date: 01-DEC-92
7. Continuous Monitor Comment: Unit required to monitor opacity under 62-96.405(1)(f)1.	
Status: Active	

Continuous Monitoring System: Continuous Monitor 6 of 7

1. Parameter Code: FLOW - Volumetric flow rate	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information... Manufacturer: United Science Model Number: Ultraflow 100 Serial Number: 9401817	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	
Status: Active	

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>6. Compliance Demonstration Reports/Records</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p> <p style="padding-left: 40px;"><input type="checkbox"/> To Be Submitted, Date (if known):</p> <p>Previously Submitted Test Date(s)/Pollutants Tested:</p> <p>To be Submitted Test Date(s)/Pollutants Tested:</p> <p>Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.</p>
<p>7. Other Information Required by Rule or Statute</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Attachment</p>

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements	<input checked="" type="checkbox"/> Applicable	<input checked="" type="checkbox"/> Attachment
2. Compliance Assurance Monitoring Plan	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
3. Alternative Methods of Operation	<input checked="" type="checkbox"/> Applicable	<input checked="" type="checkbox"/> Attachment
4. Alternative Modes of Operation (Emissions Trading)	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
5. Acid Rain Part Application		
Certificate of Representation (EPA Form No. 7610-1)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Acid Rain Part (Form No. 62-210.900(1)(a))	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
New Unit Exemption (Form No. 62-210.900(1)(a)2.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment

Additional Requirements for Air Construction Permit Applications

- | |
|---|
| 1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e))
<input type="checkbox"/> Applicable <input type="checkbox"/> Attachment |
| 2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.)
<input type="checkbox"/> Applicable <input type="checkbox"/> Attachment |
| 3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only)
<input type="checkbox"/> Applicable <input type="checkbox"/> Attachment |

Other Information Regarding this Emissions Unit

- | |
|--|
| 1. Other Emissions Unit Information
<input checked="" type="checkbox"/> Applicable <input checked="" type="checkbox"/> Attachment
Note: Provide any other information related to the emissions unit addressed in this Emissions Unit Information Section that is not elsewhere provided in the application, not otherwise required and that you, the applicant, believe may be helpful. |
|--|

Additional Requirements Comment

(1) fuel analyses have previously been submitted, (2) a detailed description of the FGD control equipment is included with the facility attachments, and (3) a description of stack sampling facilities for the new FGD stack will be provided when available.
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Emission Unit Attachments

Supplemental Item	Electronic File Name	Attachment Description	Electronic Document	Date Uploaded
Other Emissions Unit Information	Criststacksiteplan.pdf	Crist Stack Site Plan	Yes	10/24/2006
	Chimney Sketch rev1-Layout1.pdf	Crist Chimney Sketch Layout.	Yes	10/24/2006
Identification of Applicable Requirements	Crist7EPARuleList.pdf	Crist 7 EPA Rule List.	Yes	10/25/2006
	FDEPTitleVCoreList.pdf	Crist FDEP Title V Core List.	Yes	10/25/2006
	Crist7FDEPRuleList.pdf	Crist 7 FDEP Rule List.	Yes	10/25/2006
Alternative Methods of Operation	Crist 7Methods.doc	Crist 7 Alternative Methods of Operation Update.	Yes	10/20/2006

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in this Section:
Coal, Limestone, Ash and Gypsum Materials Handling

3. Emissions Unit Identification Number: 9

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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9. Package Unit Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: _____ MW

11. Emissions Unit Comment:
Fugitive emissions from unloading of coal and limestone & management of ash and gypsum disposal sites. Includes fugitive emissions from the coal piles, ash pile, gypsum pile & paved/unpaved roads.

Emissions Unit Control Equipment

No Control Equipment information submitted.

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

No Capacity information submitted.

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Material handling of coal and ash. Wind erosion related to acres of exposed area. Fugitives from roads.		
2. Source Classification Code (SCC): 30510103	3. SCC Units: Tons Material Processed	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Material handling of coal and ash.		
Is this a valid segment? Yes		

E. EMISSIONS UNIT POLLUTANTS**List of Pollutants Emitted by Emissions Unit**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code	Valid?
PM			NS	Yes
PM10			NS	Yes

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM - Particulate Matter - Total		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): 100 to 350 tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: See Material Handling Unit 9 Worksheet Attached.			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: See Material Handling Unit 9 Worksheet Attached.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

1. Pollutant Emitted: PM10 - Particulate Matter - PM10		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		tons/year	4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): 50 to 150 tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions: See Crist Material Handling Unit 9 Worksheet Attached.			
11. Pollutant Potential, Fugitive, and Actual Emissions Comment: See Crist Material Handling Unit 9 Worksheet Attached.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

No Pollutant Allowable Emissions information submitted.

G. VISIBLE EMISSIONS INFORMATION

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

No Visible Emissions information submitted.

H. CONTINUOUS MONITOR INFORMATION

Complete if this emissions unit is or would be subject to continuous monitoring.

No Continuous Monitoring information submitted.

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

<p>1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input checked="" type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input checked="" type="checkbox"/> Attachment</p>
<p>2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p>
<p>6. Compliance Demonstration Reports/Records</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date: <input type="checkbox"/> Attachment</p> <p style="padding-left: 40px;"><input type="checkbox"/> To Be Submitted, Date (if known):</p> <p>Previously Submitted Test Date(s)/Pollutants Tested:</p> <p>To be Submitted Test Date(s)/Pollutants Tested:</p> <p>Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.</p>
<p>7. Other Information Required by Rule or Statute</p> <p><input type="checkbox"/> Applicable <input type="checkbox"/> Attachment</p>

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
2. Compliance Assurance Monitoring Plan	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
3. Alternative Methods of Operation	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
4. Alternative Modes of Operation (Emissions Trading)	<input type="checkbox"/> Applicable	<input type="checkbox"/> Attachment
5. Acid Rain Part Application		
Certificate of Representation (EPA Form No. 7610-1)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Acid Rain Part (Form No. 62-210.900(1)(a))	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
New Unit Exemption (Form No. 62-210.900(1)(a)2.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)	<input type="checkbox"/> Applicable <input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment

Additional Requirements for Air Construction Permit Applications

- | |
|---|
| 1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e))
<input type="checkbox"/> Applicable <input type="checkbox"/> Attachment |
| 2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(4)(d), F.A.C., and Rule 62-212.500(4)(f), F.A.C.)
<input type="checkbox"/> Applicable <input type="checkbox"/> Attachment |
| 3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only)
<input type="checkbox"/> Applicable <input type="checkbox"/> Attachment |

Other Information Regarding this Emissions Unit

- | |
|--|
| 1. Other Emissions Unit Information
<input checked="" type="checkbox"/> Applicable <input checked="" type="checkbox"/> Attachment
Note: Provide any other information related to the emissions unit addressed in this Emissions Unit Information Section that is not elsewhere provided in the application, not otherwise required and that you, the applicant, believe may be helpful. |
|--|

Additional Requirements Comment

This construction application adds limestone and gypsum handling to Emission Unit #9.

Emission Unit Attachments

Supplemental Item	Electronic File Name	Attachment Description	Electronic Document	Date Uploaded
Process Flow Diagram	Process Flow Diagram.ppt	Crist Process Flow Diagram.	Yes	10/26/2006
Other Emissions Unit Information	GypsumDewatering.tif	Crist Gypsum Dewatering Diagram.	Yes	10/26/2006
	LimestonePrep1.tif	Crist Limestone Prep1 Diagram.	Yes	10/26/2006
	EU9CR2006.WK4	Emissions Calculations for Unit 9 (Use Excel to Open Document)	Yes	10/27/2006
	LimestonePrep2.tif	Crist Limestone Prep2 Diagram.	Yes	10/26/2006

