

NOTICE OF FINAL PERMIT

In the Matter of an
Application for Permit by:

Mr. Martin Kreft
General Manager
Cedar Bay Generating Company, L.P.
9640 Eastport Road
Jacksonville, Florida 32218-2260

Cedar Bay Cogeneration Facility
No. 0310337-011-AC
Project- New Absorber Dryer System
Train 3

On February 8, 2006, Cedar Bay Generating Company submitted an application to construct a new absorber dryer system (ADS) at the Cedar Bay Cogeneration Facility, which is located at 9640 Eastport Road in Jacksonville, Duval County, Florida.

Enclosed is Final Permit No. 0310337-011-AC which authorizes construction of the new ADS. A copy of this letter shall be filed with the referenced permit and shall become part of the permit. This permit modification is issued pursuant to Chapter 403, Florida Statutes.

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

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

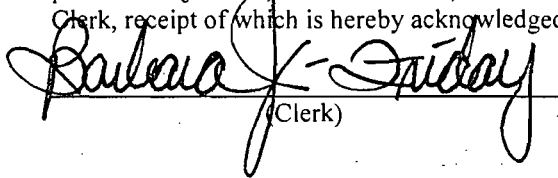
The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 4/7/06 to the persons listed:

Martin Kreft, Cedar Bay*
Jeff Walker, Cedar Bay
Ken Kosky, P.E., Golder and Associates
Richard Robinson, P.E., City of Jacksonville EQD

Chris Kirts, DEP- NED
Hamilton Oven, DEP Siting Office
Dot Mathias, Northside Civic Association

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.

 4/7/06
(Clerk) (Date)

FINAL DETERMINATION

Cedar Bay Generating Company
Cedar Bay Cogeneration Facility
DEP File No. 0310337-011-AC

The Department distributed a public notice package on March 7, 2006 to authorize the construction of a new absorber dryer system (ADS) at the existing Cedar Bay Cogeneration Facility, which is located at 9640 Eastport Road in Jacksonville, Duval County, Florida. The Public Notice of Intent to Issue was published in Jacksonville Times Union on March 17, 2006.

COMMENTS/CHANGES

Comments were only received from the Jacksonville Air Quality Branch Environmental Quality Division on the draft permit.

Comment: Draft Permit, EU 034 Specific Conditions (SC), page 5, SC 13, please add Chapter 376, Odor Control, Jacksonville Ordinance Code to the Rule citations at the end of the SC.

Response: The rule cite will be added to the permit.

Comment: Draft Permit, EU 034 Specific Conditions (SC), page 7, SC 27 and 31, please change AWQD to Compliance Authority.

Response: The Department will change AWQD to Compliance Authority in the permit.

Comment: Draft Permit, EU 034 Specific Conditions (SC), page 7, SC 29, please add "or Compliance Authority" after Department.

Response: The Department will add the language to the permit.

CONCLUSION

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



Department of Environmental Protection

Jeb Bush
Governor

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

Colleen M. Castille
Secretary

PERMITTEE

Cedar Bay Generating Company
9640 Eastport Road
Jacksonville, FL 32218-2260

Authorized Representative:
Martin Kreft, General Manager

Cedar Bay Cogeneration Facility Absorber Dryer System Train 3 Facility ID No. 0310337 Air Permit No. 0310337-011-AC Permit Expires: March 1, 2008

PROJECT AND LOCATION

This permit authorizes the construction of a new absorber dryer system (ADS) at the existing Cedar Bay Cogeneration Facility, which is located at 9640 Eastport Road in Jacksonville, Duval County, Florida. The map coordinates are: Zone 17; 441.610 km East; and 3365.552 km North.

STATEMENT OF BASIS

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

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- Section 2. Administrative Requirements
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Michael G. Cooke

Michael G. Cooke, Director
Division of Air Resource Management

4/7/06

(Date)

"More Protection, Less Process"

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SECTION 1. GENERAL INFORMATION

FACILITY AND PROJECT DESCRIPTION

This facility, permitted under Title V permit 0310337-007-AV, consists of: three circulating fluidized bed steam generators (CFB boilers) designated as Boilers A, B, and C; a coal handling area; a limestone handling area; and an ash handling area. Crushed coal is the primary fuel for Boilers A, B and C and the facility may use petroleum coke. The fuel for Boilers B and C can also be supplemented with short fiber recycle rejects received from Stone Container Corporation. No. 2 fuel oil is used as a supplemental start up fuel in all three boilers. Two absorber dryer system trains process limestone as a reactant for the CFB boilers to control SO₂ emissions. Also included in the Title V permit are miscellaneous insignificant emissions units and/or activities. The following units are affected by this air construction permit.

ID	Emission Unit Description
004	Absorber Dryer System Train 1 (Dryer and Handling System)
005	Absorber Dryer System Train 2 (Dryer and Handling System)
034	Absorber Dryer System Train 3 (Dryer and Handling System)

REGULATORY CLASSIFICATION

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

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

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

NSPS: Some units are subject to a New Source Performance Standard (NSPS) in 40 CFR 60.

RELEVANT DOCUMENTS

Application submitted on February 8, 2006.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: All documents related to applications for permits to construct, modify, or operate emissions units at this facility shall be submitted to the Bureau of Air Regulation of the Florida Department of Environmental Protection (DEP) at 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400. Copies of all permit applications shall also be sent to the Compliance Authority.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the City of Jacksonville's Environmental Quality Division, 117 W. Duval Street, Suite 225, Jacksonville, FL, 32202-3718.
3. Appendices: The following Appendices are attached as part of this permit: Appendix CF (Citation Format); Appendix GC (General Conditions); and, Appendix SC (Standard Conditions).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of Chapter 403, F.S. and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-4, 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Construction Approval: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Rule 62-210.200(76), F.A.C. defines *construction* as, "The act of performing on-site fabrication, erection, installation or modification of an emissions unit or facility of a permanent nature, including installation of foundations or building supports; laying of underground pipe work or electrical conduit; and fabrication or installation of permanent storage structures, component parts of an emissions unit or facility, associated support equipment, or utility connections. Land clearing and other site preparation activities are not a part of the construction activities." Such permits shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Title V Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V operation permit is required for regular operation of the permitted emissions units. The permittee shall apply for a Title V operation permit (revision) at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emissions Units 034

This section of the permit addresses emissions unit 034.

ID	Emission Unit Description
034	Absorber Dryer System (ADS) Train 3 (Dryer and Handling System)
<p><i>Description:</i> Proposed emissions unit 034 is an absorber dryer system. Train 3 will consist of an impact mill which will be used to size the limestone and a heater, rated at 13.4 MMBtu/hr to dry the limestone.</p> <p><i>Fuels:</i> No. 2 fuel oil with a sulfur content of 0.05 percent by weight or less</p> <p><i>Material Handling/Usage Rate:</i> 44 tons per hour of limestone/aragonite</p> <p><i>PM Controls:</i> baghouse</p> <p><i>{Permitting Notes: Unit 034 will be regulated under Rule 62-212.400, F.A.C. (PSD Preconstruction Review); NSPS, 40 CFR 60 Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants, adopted and incorporated by reference in Rule 62-204.800(7)}</i></p>	

EQUIPMENT AND CONSTRUCTION

1. ADS Train 3: The permittee is authorized to install an absorber dryer system (ADS) consisting of: an impact mill designed to size limestone to a nominal size of 98% to 99% of material passing through an 18 mesh sieve; and a 13.4 MMBtu/hr dryer to dry sized limestone to a boiler specification of 1% moisture content. [Application No. 0310337-011-AC]
2. Baghouse: To control particulate matter emissions from the dryer, the permittee shall design, install, operate, and maintain a baghouse system designed to achieve a specification of 0.003 grains/dscf of exhaust. The designed exhaust flow rate from ADS train 3 is 20,500 acfm at 180 F. [Design; Application No. # 0310337-011-AC]

PERFORMANCE REQUIREMENTS

3. Hours of Operation: ADS Train 3 may operate continuously (8,760 hours per year.) [Rule 62-210.200(PTE), F.A.C.]
4. Permitted Capacity: The maximum handling/usage rates for ADS Train 3 for all limestone/aragonite unloading and storage shall not exceed 44 tons/hour and 385,400 tons during any 12 consecutive months of limestone and aragonite. [Application No. 0310337-011-AC, Rule 62-210.200(PTE), F.A.C.]
5. Authorized Fuel: ADS Train 3 is permitted to fire only No. 2 distillate oil, containing no more than 0.05% sulfur by weight. The maximum distillate oil firing rate shall not exceed 100 gallons per hour and 876,000 gallons during any 12 consecutive months. [Rule 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

6. Visible Emissions: Visible emissions from the ADS Train 3 shall not exceed 5% opacity. In addition, pursuant to 40 CFR 60.672(a)(2), visible emissions shall not exceed 7%. [Rule 62-4.070(3), F.A.C. and 40 CFR 60.672(a)(2).]
7. Particulate Matter Emissions. Particulate matter emissions from the emissions units in this subsection shall not exceed 0.003 gr/dscf. In addition, pursuant to 40 CFR 60.672(a)(1), particulate matter emissions shall not exceed 0.022 gr/dscf. [Application No. 0310337-011-AC and 40 CFR 60.672]
8. 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

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emissions Units 034

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.]

9. Circumvention: The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
10. 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.]
11. 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.]
12. 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.]
13. 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. Chapter 376, Odor Control, Jacksonville Ordinance Code]
14. 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.]
15. 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.]

EMISSIONS PERFORMANCE TESTING

16. Test Notification: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. The notification shall include: the scheduled date, approximate start time, test team, contact name and phone number, description of unit to be tested, and the tests to be performed. [Rule 62-297.310(7)(a)9, F.A.C.]
17. Visible Emissions: The test method for visible emissions shall be EPA Method 9, incorporated in Chapter 62-297, F.A.C. and 40 CFR 60.60.675. [Rule 62-297, F.A.C., and 40 CFR 60.675.]
18. Particulate Matter Emissions: The test method for particulate matter emissions shall be EPA Method 5 or 17, incorporated in Chapter 62-297, F.A.C. [Application No. 0310337-011-AC, and 40 CFR 60.675.]
19. Initial Compliance Tests: The baghouse exhaust point shall be tested to demonstrate initial compliance with the specified particulate matter and opacity standards. The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit. [Rule 62-297.310(7)(a)1, F.A.C.; 40 CFR 60.8]
20. Annual Compliance Tests: During each federal fiscal year (October 1st to September 30th), the baghouse exhaust point shall be tested to demonstrate compliance with the specified opacity standard. Compliance

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emissions Units 034

tests for particulate matter subsequent to the initial compliance test are not required unless the Compliance Authority has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that the applicable emission standard is being violated. [Rule 62-297.310(7)(a)4, F.A.C.]

21. 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.]
22. 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 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.]
23. 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.]
24. 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.]
25. 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.

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Emissions Units 034

- 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.]

26. 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.
27. Special Compliance Tests: When the Compliance Authority, 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 Compliance Authority. [Rule 62-297.310(7)(b), F.A.C.]

RECORDKEEPING AND REPORTS

28. No. 2 Fuel Oil Sulfur Content. For the ADS train 3, the fuel sulfur content, percent by weight, shall be analyzed using either ASTM D2622-92, ASTM D4294-90, both ASTM D4057-88 and ASTM D129-91, or the latest edition. If the No. 2 fuel oil being delivered has a sulfur content of 0.05% or less, by weight, then the vendor's analysis is acceptable and no further analysis is required. However, if the No. 2 fuel oil being delivered has a sulfur content greater than 0.05%, by weight, the permittee shall have an as-fired sample analyzed. [Rule 62-213.440, F.A.C.; and 40 CFR 60.17]
29. 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 or Compliance Authority upon request. [Rules 62-4.160(14) and 62-213.440(1)(b)2, F.A.C.]
30. 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.]
31. Test Reports: The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Compliance Authority on the results of each such test. The required test report shall be filed with the Compliance Authority 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 Compliance Authority to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report 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.
 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.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emissions Units 034

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.]

SECTION 4. APPENDICES

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Appendix CF - Citation Format;
Appendix GC - General 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 CRF 60.7]

Means: Title 40, Part 60, Section 7

SECTION 4. APPENDIX SC
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.

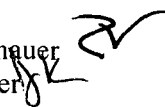

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving 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 Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

SECTION 4. APPENDIX SC
GENERAL CONDITIONS

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.

MEMORANDUM

TO: Michael G. Cooke

THRU: Trina Vielhauer 
Jeff Koerner 

FROM: Bobby Bull

DATE: April 5, 2006

SUBJECT: FINAL Permit No. 0310337-011-AC
Cedar Bay Generating Company
Cedar Bay Cogeneration Facility

Attached for approval and signature is a final air construction permit for the Cedar Bay Cogeneration Facility. This air construction permit authorizes construction of a new absorber dryer system (ADS) train 3 to process limestone as a reactant for the existing circulating fluidized beds (CFB) boilers to control sulfur dioxide (SO₂) and other acid gases.

This project is not subject to PSD because there will be no significant emissions increases associated with the modification. The facility is still subject to all current emissions limits.

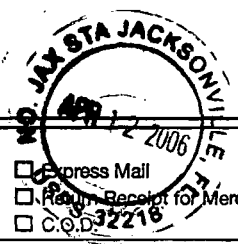
Comments were received from the Jacksonville EQD concerning the DRAFT Permit that was clerked on March 7, 2006. The comments were incorporated into the permit as described in the attached Final Determination.

I recommend your approval and signature.

Attachment

TV/r/b

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Agent <i>[Signature]</i> <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Shelby Arnold</i> C. Date of Delivery <i>4/2/06</i></p>
<p>1. Article Addressed to:</p> <p>Mr. Martin Kreft Cedar Bay Generating Company 9640 Eastport Road Jacksonville, Florida 32218-2260</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p>	<p>7000 1670 0013 3110 1526</p>
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>	



U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)											
<p>Mr. Martin Kreft</p>											
<table border="1"> <tr><td>Postage</td><td>\$</td></tr> <tr><td>Certified Fee</td><td></td></tr> <tr><td>Return Receipt Fee (Endorsement Required)</td><td></td></tr> <tr><td>Restricted Delivery Fee (Endorsement Required)</td><td></td></tr> <tr><td>Total Postage & Fees</td><td>\$</td></tr> </table>	Postage	\$	Certified Fee		Return Receipt Fee (Endorsement Required)		Restricted Delivery Fee (Endorsement Required)		Total Postage & Fees	\$	<p>Postmark Here</p>
Postage	\$										
Certified Fee											
Return Receipt Fee (Endorsement Required)											
Restricted Delivery Fee (Endorsement Required)											
Total Postage & Fees	\$										
<p>Sent To Mr. Martin Kreft Street, Apt. No., or PO Box No. 9640 Eastport Road City, State, ZIP+4 Jacksonville, Florida 32218-2260</p>											
<p>PS Form 3800, May 2000 See Reverse for Instructions</p>											

7000 1670 0013 3110 1526

Cedar Bay Generating Company, L.P
P. O. Box 26324
Jacksonville, FL 32226-6324

9640 Eastport Road
Jacksonville, FL 32218

904.751.4000
Fax: 904.751.7320

March 28, 2006

Mr. Robert Bull, Engineer
Division of Air Resources Management
Florida Department of Environmental Protection
2600 Blair Stone Road, Mail Station #5505
Tallahassee, Florida 32399-2400

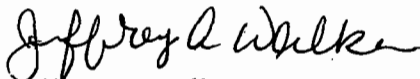
Re: Cedar Bay's Public Notice of Intent to Issue Air Permit

Dear Mr. Bull:

Pursuant to the instructions in the Department's letter dated March 7, 2006, Cedar Bay submits the notarized Affidavit of Publication for the "PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT" for Cedar Bay Generating Company's proposed third Absorber Dryer System. The notice was published in the legal ad section of the Florida Times Union on March 17, 2006.

If there are any questions or if any additional information is needed, please do not hesitate to contact me via phone (904-696-1547) or e-mail (jeffwalker@cogentrix.com).

Sincerely,



Jeffrey A. Walker
Environmental Manager, Cedar Bay Plant

Cc: Martin Kreft, Cedar Bay
Mark Casper, Charlotte

RECEIVED
MAR 29 2006
BUREAU OF AIR REGULATION

THE FLORIDA TIMES-UNION
Jacksonville, Fl
Affidavit of Publication

Florida Times-Union

CEDAR BAY CONGENERATION PLANT
PO BOX 26324
JACKSONVILLE FL 32236

REFERENCE: 0181153
R109857 TO ISSUE AIR PERMIT

State of Florida
County of Duval

Before the undersigned authority personally appeared Tiffany Powell who on oath says she is a Legal Advertising Representative of The Florida Times-Union, a daily newspaper published in Jacksonville in Duval County, Florida; that the attached copy of advertisement is a legal ad published in The Florida Times-Union. Affiant further says that The Florida Times-Union is a newspaper published in Jacksonville, in Duval County, Florida, and that the newspaper has heretofore been continuously published in Duval County, Florida each day, has been entered as second class mail matter at the post office in Jacksonville, in Duval County, Florida for a period of one year preceeding the first publication of the attached copy of advertisement; and affiant further says that he/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 said newspaper.

PUBLISHED ON: 03/17

FILED ON: 03/17/06

Name: Tiffany Powell Title: Legal Advertising Rep
In testimony whereof, I have hereunto set my hand and aff seal, the day and year aforesaid.

NOTARY:



TWILLA SHIPP
Notary Public, State of Florida
My comm. expires May 13, 2006
Comm. No. DD 117248

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection
Draft Air Permit No. 0310337-011-AC
Cedar Bay Generating Company - Cedar Bay Cogeneration Facility
Duval County, Florida

Applicant: The applicant and mailing address for this project is: Cedar Bay Generating Company, L.P., 9640 Eastport Road, Jacksonville, Florida 32218-2260. The applicant's authorized representative is Martin Kreff, General Manager.

Facility Location: The Cedar Bay Generating Company operates the existing Cedar Bay Cogeneration facility, located at 9640 Eastport Road, Jacksonville, Duval County, Florida.

Project: The applicant proposes to construct a new absorber dryer system (ADS) train 3 to process limestone as a reactant for the existing circulating fluidized beds (CFB) boilers to control sulfur dioxide (SO₂) and other acid gases. The project is not expected to result in any significant increases of pollutants. Maximum potential emissions are 1.97 tpy (PM/PM₁₀), 3.1 tpy (SO₂), 7.0 tpy (NO_x) 9.4 tpy (CO), and 0.09 tpy (VOC). The PSD thresholds are 25/15 tpy, 40, 40, 100, and 40 respectively. The proposed line would be the primary ADS train and the existing ADS trains 1 and 2 (Emissions Units 004 and 005 respectively) will become the backup ADS trains.

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 Florida 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 850/448-0114.

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 it's intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of 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 fourteen (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 Department's 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 fourteen (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 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 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 how and when the petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petitioner 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; 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.



Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

March 7, 2006

Mr. Martin Kreft
General Manager
Cedar Bay Generating Company
9640 Eastport Road
Jacksonville, Florida 32218-2260

Re: Air Construction Permit No. 0310337-011-AC
Cedar Bay Generating Company- Cedar Bay Cogeneration Facility
New Absorber Dryer System Train 3

Dear Mr. Kreft:

On February 8, 2006, you submitted an application for an air permit to construct a new absorber dryer system (ADS) Train 3. The equipment will be installed at the Cedar Bay Cogeneration Facility, which is located at 9640 Eastport Road, Duval 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 emissions units 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, Bobby Bull, at (850) 921-9585.

Sincerely,

For

Trina L. Vielhauer, Chief
Bureau of Air Regulation

TLV/rib
Enclosures

"More Protection, Less Process"

Printed on recycled paper.

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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

Mr. Martin Kreft
General Manager
Cedar Bay Generating Company, L.P.
9640 Eastport Road
Jacksonville, Florida 32218-2260

Draft Air Permit No. 0310337-011-AC
Cedar Bay Cogeneration Facility
New Absorber Dryer System Train 3
Duval County, Florida

Facility Location: Cedar Bay Generating Company operates the existing Cedar Bay Cogeneration Facility, located at 9640 Eastport Road, Jacksonville, Duval County, Florida.

Project: The applicant proposes to design, construct, install, and maintain a new absorber dryer system (ADS) train 3. 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.

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 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 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), 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.

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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 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 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 how and when each petitioner received notice of the agency action or proposed action; (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; 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.

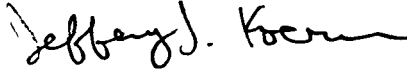
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written Notice of Intent to Issue Air Permit. Persons whose substantial interests 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.

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

Mediation: Mediation is not available in this proceeding.

Executed in Tallahassee, Florida.

For



Trina L. Vielhauer, Chief
Bureau of Air Regulation

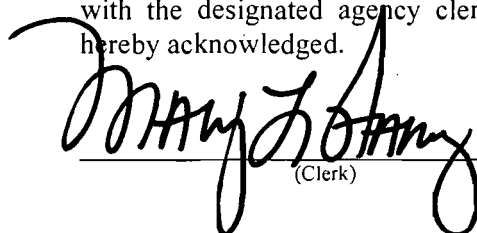
CERTIFICATE OF SERVICE

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 by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 3/7/06 to the persons listed below.

- Martin Kreft, Cedar Bay*
- Jeff Walker, Cedar Bay
- Ken Kosky, P.E., Golder and Associates
- Richard Robinson, P.E., City of Jacksonville EQD
- Chris Kirts, DEP- NED
- Hamilton Oven, DEP Siting Office
- Dot Mathias, Northside Civic Association

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)

3/7/06

(Date)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection
Draft Air Permit No. 0310337-011-AC
Cedar Bay Generating Company- Cedar Bay Cogeneration Facility
Duval County, Florida

Applicant: The applicant and mailing address for this project is: Cedar Bay Generating Company, L.P., 9640 Eastport Road, Jacksonville, Florida 32218-2260. The applicant's authorized representative is Martin Kreft, General Manager.

Facility Location: The Cedar Bay Generating Company operates the existing Cedar Bay Cogeneration Facility, located at 9640 Eastport Road, Jacksonville, Duval County, Florida.

Project: The applicant proposes to construct a new absorber dryer system (ADS) train 3 to process limestone as a reactant for the existing circulating fluidized beds (CFB) boilers to control sulfur dioxide (SO₂) and other acid gases. The project is not expected to result in any significant increases of pollutants. Maximum potential emissions are 1.97 tpy (PM/PM₁₀), 3.1 tpy (SO₂), 7.0 tpy (NO_x), 9.4 tpy (CO), and 0.09 tpy (VOC). The PSD thresholds are 25/15 tpy, 40, 40, 100, and 40 respectively. The proposed line would be the primary ADS train and the existing ADS trains 1 and 2 (Emissions Units 004 and 005 respectively) will become the backup ADS trains.

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 Florida 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 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 fourteen (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.

(Public Notice to be Published in the Newspaper)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

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 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 fourteen (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 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 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 how and when the petitioner received notice of the agency action or proposed action; (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; 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
&
PRELIMINARY DETERMINATION**

PROJECT

Draft Air Construction Permit No. 0310337-011-AC
Absorber Dryer System Train 3

COUNTY

Duval County, Florida

APPLICANT

Cedar Bay Generating Company, L.P.
Cedar Bay Cogeneration Facility
ARMS Facility ID No. 0310337

**PERMITTING
AUTHORITY**

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



March 7, 2006

{Filename: 0310337011 TEPD}

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

1. GENERAL PROJECT INFORMATION

Facility Description and Location

Cedar Bay Generating Company operates the existing Cedar Bay Cogeneration Facility (SIC 4911), which is located at 9640 Eastport Road in Jacksonville, Duval County, Florida. This site is in an area that is currently in attainment (or designated as unclassifiable) for all air pollutants subject to a National Ambient Air Quality Standard (NAAQS).

Regulatory Categories

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

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

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

NSPS: Some units are subject to a New Source Performance Standard (NSPS) in 40 CFR 60.

Project Description

Cedar Bay proposes to construct a new absorber dryer system (ADS) train 3 to act as the primary ADS with the existing ADS trains 1 and 2 acting as backup systems to train 3. The new system will consist of material handling equipment and sizing and drying equipment. Particulate matter emissions will be controlled by a baghouse. Train 3 will use the existing facility's storage and handling systems for prepared reactant.

Processing Schedule

02/8/06 Received the application for new absorber dryer system.

2. APPLICABLE REGULATIONS

State Regulations

This project is subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The Florida Statutes authorize the Department of Environmental Protection to establish rules and regulations regarding air quality as part of the Florida Administrative Code (F.A.C.). In general, this project is subject to the applicable rules and regulations defined in the following Chapters of the F.A.C.

<u>Chapter</u>	<u>Description</u>
62-4	Permitting Requirements
62-204	Ambient Air Quality Requirements and Federal Regulations Adopted by Reference
62-210	Required Permits, Public Notice, Reports, Circumvention, Excess Emissions, and Forms
62-212	Preconstruction Review
62-213	Operation Permits for Major Sources of Air Pollution
62-296	Emission Limiting Standards
62-297	Testing, Continuous Monitoring, and Alternate Sampling Procedures

General PSD Applicability

The Department regulates major air pollution sources in accordance with the Prevention of Significant Deterioration (PSD) program. A pre-construction PSD review is required only in areas currently in attainment with the National Ambient Air Quality Standard (NAAQS) or areas designated as

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

“unclassifiable” for a given pollutant. A new facility is considered “major” with respect to PSD if it emits or has the potential to emit:

- 250 tons per year or more of any regulated air pollutant, or
- 100 tons per year or more of any regulated air pollutant and the facility belongs to one of the 28 PSD Major Facility Categories, or
- 5 tons per year of lead.

For new projects at PSD-major sources, each regulated pollutant is reviewed for PSD applicability based on emissions thresholds known as the Significant Emission Rates defined in Rule 62-210.200, F.A.C. Pollutant emissions from the project exceeding these rates are considered “significant”. The applicant must employ the Best Available Control Technology (BACT) to minimize emissions of each such pollutant and evaluate the air quality impacts. Although a facility may be “major” with respect to PSD for only one regulated pollutant, it must install BACT controls for each “significant” regulated pollutants.

PSD Applicability for Project

Listed in the following table are estimated potential emissions for the proposed ADS, Emissions Unit 034:

Pollutant	Estimated Potential Emissions (Tons per Year)	Significant Emissions Rate (Tons per Year)	Trigger PSD Review
PM/PM10	1.97	25/15	NO
SO ₂	3.1	40	NO
NO _x	7.0	40	NO
CO	9.4	100	NO
VOC	0.09	40	NO

As shown in the above table, the project is not subject to PSD preconstruction review. Nevertheless, a minor source air construction permit is required to conduct the proposed work.

3. Application Review

This facility, permitted under Title V permit 0310337-007-AV, consists of: three circulating fluidized bed steam generators (CFB boilers) designated as Boilers A, B, and C; a coal handling area; a limestone handling area; and an ash handling area. Crushed coal is the primary fuel for Boilers A, B and C and the facility may use petroleum coke. The fuel for Boilers B and C can also be supplemented with short fiber recycle rejects received from Stone Container Corporation. No. 2 fuel oil is used as a supplemental start up fuel in all three boilers. Two absorber dryer system trains process limestone as a reactant for the CFB boilers to control SO₂ emissions. Cedar Bay proposes to install a Decker Industries Absorber Dyer System (ADS) Train designed to process 44 tph (385,400 tpy) of limestone which will be used as a reactant for the existing plant’s three circulating fluidized bed (CFB) boilers to reduce SO₂ and other acid gases.

Based on the current Title V air operation permit, Unit 034 is subject to Rule 62-212.300, F.A.C. (General Preconstruction Review); NSPS, 40 CFR 60 Subpart OOO (Sec. 60.672 and 60.675), Standards of Performance for Nonmetallic Mineral Processing Plants, adopted and incorporated by reference in Rule 62-204.800(7). However, the proposed standards for particulate patten control and visible emissions are more stringent than the subpart OOO standards.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

The applicant proposes to install an ADS train 3 as the primary system with existing ADS trains 1 and 2 serving as backups. ADS train 3 will consist of an impact mill, dryer, and baghouse. The impact mill will size limestone and aragonite so that 98% to 99% of the material will pass through an 18 mesh sieve. The dryer consists of a 13.4 MMBtu/hour heater used to dry the limestone/aragonite to a specification of 1% moisture or less. The dryer will fire only distillate oil containing no more than 0.05% sulfur by weight. ADS train 3 will have a capacity of 44 tons/hour and 385,400 tons/year of limestone and aragonite.

Emissions from the project will result from fuel combustion in the dryer and the particulate emissions from sizing, drying, and handling limestone/aragonite. At maximum capacity, the dryer will combust 876,000 gallons per year of distillate oil. As shown in the previous table, emissions (CO, NO_x, SO₂, and VOC) from this quantity of fuel combustion will not be significant. Particulate matter emissions from both fuel combustion and material handling will be controlled by a baghouse.

The proposed particulate matter control device is a MikroPul baghouse control system with pulse-jet cleaning. The baghouse filter area will be approximately 5700 cubic feet and the unit will have an air-to-cloth ratio of 3.65 to 1. The exhaust flow rate will be approximately 20,500 acfm and the exhaust temperature will be approximately 180° F. The baghouse will be designed to achieve a particulate matter emission rate of no more than 0.003 grains per dry standard cubic feet (gr/dscf). The potential to emit (PTE) of PM emissions are 1.97 tpy. Based on AOR data, this is approximately equivalent to ADS Units 1 and 2 actual emissions for the last five years.

The proposed ADS train 3 is subject to NSPS Subpart OOO in 40 CFR 60, which is a federal regulation for non-metallic mineral processing plants. This regulation primarily specifies two standards for this unit: visible emissions shall not exceed 7% opacity; and particulate matter emissions shall not exceed no more 0.022 gr/dscf [40 CFR 60.672(a)]. The proposed control system will comply with these federal requirements. The draft permit will also specify the following more stringent standards: visible emissions shall not exceed 5% opacity; and particulate matter emissions shall not exceed 0.003 gr/dscf. These standards are based on the design of the unit, which formed the basis for potential emissions in the application.

4. PRELIMINARY DETERMINATION

The Department makes a preliminary determination that the proposed project will comply with the applicable air pollution regulations. This determination is based on a technical review of the application, the preliminary design, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. No air quality modeling analysis is required because the project does not result in a significant increase in emissions. Bobby Bull is the project engineer responsible for reviewing the application and drafting the permit. 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.

REFERENCES

1. Annual Air Operating Reports, Florida Department of Environmental Protection, Division of Air Resource Management.



Department of Environmental Protection

Jeb Bush
Governor

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

Colleen M. Castille
Secretary

PERMITTEE

Cedar Bay Generating Company
9640 Eastport Road
Jacksonville, FL 32218-2260

Authorized Representative:
Martin Kreft, General Manager

Cedar Bay Cogeneration Facility
Absorber Dryer System Train 3
Facility ID No. 0310337
Air Permit No. 0310337-011-AC
Permit Expires: March 1, 2008

PROJECT AND LOCATION

This permit authorizes the construction of a new absorber dryer system (ADS) at the existing Cedar Bay Cogeneration Facility, which is located at 9640 Eastport Road in Jacksonville, Duval County, Florida. The map coordinates are: Zone 17; 441.610 km East; and 3365.552 km North.

STATEMENT OF BASIS

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

CONTENTS

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

Michael G. Cooke, Director
Division of Air Resource Management

(Date)

SECTION 1. GENERAL INFORMATION

FACILITY AND PROJECT DESCRIPTION

This facility, permitted under Title V permit 0310337-007-AV, consists of: three circulating fluidized bed steam generators (CFB boilers) designated as Boilers A, B, and C; a coal handling area; a limestone handling area; and an ash handling area. Crushed coal is the primary fuel for Boilers A, B and C and the facility may use petroleum coke. The fuel for Boilers B and C can also be supplemented with short fiber recycle rejects received from Stone Container Corporation. No. 2 fuel oil is used as a supplemental start up fuel in all three boilers. Two absorber dryer system trains process limestone as a reactant for the CFB boilers to control SO₂ emissions. Also included in the Title V permit are miscellaneous insignificant emissions units and/or activities. The following units are affected by this air construction permit.

ID	Emission Unit Description
004	Absorber Dryer System Train 1 (Dryer and Handling System)
005	Absorber Dryer System Train 2 (Dryer and Handling System)
034	Absorber Dryer System Train 3 (Dryer and Handling System)

REGULATORY CLASSIFICATION

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

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

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

NSPS: Some units are subject to a New Source Performance Standard (NSPS) in 40 CFR 60.

RELEVANT DOCUMENTS

Application submitted on February 8, 2006.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: All documents related to applications for permits to construct, modify, or operate emissions units at this facility shall be submitted to the Bureau of Air Regulation of the Florida Department of Environmental Protection (DEP) at 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400. Copies of all permit applications shall also be sent to the Compliance Authority.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the City of Jacksonville's Environmental Quality Division, 117 W. Duval Street, Suite 225, Jacksonville, FL, 32202-3718.
3. Appendices: The following Appendices are attached as part of this permit: Appendix CF (Citation Format); Appendix GC (General Conditions); and, Appendix SC (Standard Conditions).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of Chapter 403, F.S. and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-4, 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Construction Approval: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Rule 62-210.200(76), F.A.C. defines *construction* as, "The act of performing on-site fabrication, erection, installation or modification of an emissions unit or facility of a permanent nature, including installation of foundations or building supports; laying of underground pipe work or electrical conduit; and fabrication or installation of permanent storage structures, component parts of an emissions unit or facility, associated support equipment, or utility connections. Land clearing and other site preparation activities are not a part of the construction activities." Such permits shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Title V Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V operation permit is required for regular operation of the permitted emissions units. The permittee shall apply for a Title V operation permit (revision) at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emissions Units 034

This section of the permit addresses emissions unit 034.

ID	Emission Unit Description
034	Absorber Dryer System (ADS) Train 3 (Dryer and Handling System)
<p><i>Description:</i> Proposed emissions unit 034 is an absorber dryer system. Train 3 will consist of an impact mill which will be used to size the limestone and a heater, rated at 13.4 MMBtu/hr to dry the limestone.</p> <p><i>Fuels:</i> No. 2 fuel oil with a sulfur content of 0.05 percent by weight or less</p> <p><i>Material Handling/Usage Rate:</i> 44 tons per hour of limestone/aragonite</p> <p><i>PM Controls:</i> baghouse</p> <p><i>{Permitting Notes: Unit 034 will be regulated under Rule 62-212.400, F.A.C. (PSD Preconstruction Review); NSPS, 40 CFR 60 Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants, adopted and incorporated by reference in Rule 62-204.800(7)}</i></p>	

EQUIPMENT AND CONSTRUCTION

1. **ADS Train 3:** The permittee is authorized to install an absorber dryer system (ADS) consisting of: an impact mill designed to size limestone to a nominal size of 98% to 99% of material passing through an 18 mesh sieve; and a 13.4 MMBtu/hr dryer to dry sized limestone to a boiler specification of 1% moisture content. [Application No. 0310337-011-AC]
2. **Baghouse:** To control particulate matter emissions from the dryer, the permittee shall design, install, operate, and maintain a baghouse system designed to achieve a specification of 0.003 grains/dscf of exhaust. The designed exhaust flow rate from ADS train 3 is 20,500 acfm at 180 F. [Design; Application No. # 0310337-011-AC]

PERFORMANCE REQUIREMENTS

3. **Hours of Operation:** ADS Train 3 may operate continuously (8,760 hours per year.) [Rule 62-210.200(PTE), F.A.C.]
4. **Permitted Capacity:** The maximum handling/usage rates for ADS Train 3 for all limestone/aragonite unloading and storage shall not exceed 44 tons/hour and 385,400 tons during any 12 consecutive months of limestone and aragonite. [Application No. 0310337-011-AC, Rule 62-210.200(PTE), F.A.C.]
5. **Authorized Fuel:** ADS Train 3 is permitted to fire only No. 2 distillate oil, containing no more than 0.05% sulfur by weight. The maximum distillate oil firing rate shall not exceed 100 gallons per hour and 876,000 gallons during any 12 consecutive months. [Rule 62-210.200(PTE), F.A.C.]

EMISSIONS STANDARDS

6. **Visible Emissions:** Visible emissions from the ADS Train 3 shall not exceed 5% opacity. In addition, pursuant to 40 CFR 60.672(a)(2), visible emissions shall not exceed 7%. [Rule 62-4.070(3), F.A.C. and 40 CFR 60.672(a)(2).]
7. **Particulate Matter Emissions.** Particulate matter emissions from the emissions units in this subsection shall not exceed 0.003 gr/dscf. In addition, pursuant to 40 CFR 60.672(a)(1), particulate matter emissions shall not exceed 0.022 gr/dscf. [Application No. 0310337-011-AC and 40 CFR 60.672]
8. **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

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emissions Units 034

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.]

9. Circumvention: The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
10. 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.]
11. 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.]
12. 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.]
13. 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.]
14. 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.]
15. 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.]

EMISSIONS PERFORMANCE TESTING

16. Test Notification: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. The notification shall include: the scheduled date, approximate start time, test team, contact name and phone number, description of unit to be tested, and the tests to be performed. [Rule 62-297.310(7)(a)9, F.A.C.]
17. Visible Emissions: The test method for visible emissions shall be EPA Method 9, incorporated in Chapter 62-297, F.A.C. and 40 CFR 60.60.675. [Rule 62-297, F.A.C., and 40 CFR 60.675.]
18. Particulate Matter Emissions: The test method for particulate matter emissions shall be EPA Method 5 or 17, incorporated in Chapter 62-297, F.A.C. [Application No. 0310337-011-AC, and 40 CFR 60.675.]
19. Initial Compliance Tests: The baghouse exhaust point shall be tested to demonstrate initial compliance with the specified particulate matter and opacity standards. The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit. [Rule 62-297.310(7)(a)1, F.A.C.; 40 CFR 60.8]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emissions Units 034

20. Annual Compliance Tests: During each federal fiscal year (October 1st to September 30th), the baghouse exhaust point shall be tested to demonstrate compliance with the specified opacity standard. Compliance tests for particulate matter subsequent to the initial compliance test are not required unless the Compliance Authority has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that the applicable emission standard is being violated. [Rule 62-297.310(7)(a)4, F.A.C.]
21. 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.]
22. 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 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.]
23. 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.]
24. 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.]
25. 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

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emissions Units 034

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.]

26. 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.
27. Special Compliance Tests: When the AWQD, 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 AWQD. [Rule 62-297.310(7)(b), F.A.C.]

RECORDKEEPING AND REPORTS

28. No. 2 Fuel Oil Sulfur Content. For the ADS train 3, the fuel sulfur content, percent by weight, shall be analyzed using either ASTM D2622-92, ASTM D4294-90, both ASTM D4057-88 and ASTM D129-91, or the latest edition. If the No. 2 fuel oil being delivered has a sulfur content of 0.05% or less, by weight, then the vendor's analysis is acceptable and no further analysis is required. However, if the No. 2 fuel oil being delivered has a sulfur content greater than 0.05%, by weight, the permittee shall have an as-fired sample analyzed. [Rule 62-213.440, F.A.C; and 40 CFR 60.17]
29. 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.]
30. 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.]
31. Test Reports: The owner or operator of an emissions unit for which a compliance test is required shall file a report with the AWQD on the results of each such test. The required test report shall be filed with the AWQD 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 AWQD to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report 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.
 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.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emissions Units 034

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.]

SECTION 4. APPENDICES

Table of Contents

Appendix CF - Citation Format;
Appendix GC - General Conditions;

DRAFT

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

**SECTION 4. APPENDIX SC
STANDARD CONDITIONS**

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.

SENDER: COMPLETE THIS SECTION

RECEIVER: COMPLETE THIS SECTION ON DELIVERY

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

A. Signature

[Handwritten Signature] Agent Addressee

B. Received by (Printed Name) Date of Delivery

Shelly Hood *3/14/06*

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3/12/06
MAR 14 2006

1. Article Addressed to:

Mr. Martin Kreft
Cedar Bay Generating Company
9640 Eastport Road
Jacksonville, Florida 32218-2260

3. Service Type

- Certified Mail Express Mail
- Registered Return Receipt for Merchandise
- Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number
(Transfer from service label)

7000 1670 0013 3110 0413

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

7000 0413 3110 0013 1670 0000

Postage \$

Certified Fee

Return Receipt Fee
(Endorsement Required)

Restricted Delivery Fee
(Endorsement Required)

Postmark
Here

Mr. Martin Kreft
Cedar Bay Generating Company
9640 Eastport Road
Jacksonville, Florida 32218-2260

PS Form 3800, May 2000

See Reverse for Instructions

RECEIVED

FEB 08 2006

BUREAU OF AIR REGULATION

**APPLICATION FOR MINOR SOURCE
AIR CONSTRUCTION PERMIT
NEW ABSORBER DRYER SYSTEM
JACKSONVILLE, FLORIDA**

**Prepared For:
Cedar Bay Generating Company
9640 Eastport Road
Jacksonville, Florida 32218-2260**

**Prepared By:
Golder Associates Inc.
6241 NW 23rd Street, Suite 500
Gainesville, Florida 32653-1500**

February 2006

0637514

DISTRIBUTION:

4 Copies – FDEP

2 Copies – Cedar Bay Generating Company

1 Copy – Golder Associates Inc.

APPLICATION FOR AIR PERMIT – LONG FORM



Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Air Construction Permit – 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
- at an existing federally enforceable state air operation permit (FESOP) or Title V permitted facility.

Air Operation Permit – Use this form to apply for:

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

Air Construction Permit & Revised/Renewal 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: Cedar Bay Generating Company, L.P.	
2. Site Name: Cedar Bay Cogeneration Facility	
3. Facility Identification Number: 0310337	
4. Facility Location...: Cedar Bay Cogeneration Facility Street Address or Other Locator: 9640 Eastport Road City: Jacksonville County: Duval Zip Code: 32218-2260	
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: Jeffery Walker, Environmental Manager	
2. Application Contact Mailing Address... Organization/Firm: Cedar Bay Generating Company Street Address: 9640 Eastport Road City: Jacksonville State: FL Zip Code: 32218-2260	
3. Application Contact Telephone Numbers... Telephone: (904) 696-1547 ext. Fax: (904) 751-7320	
4. Application Contact Email Address: jeffwalker@cogentrix.com	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	<i>2-8-06</i>
2. Project Number(s):	<i>0310337-011-AC</i>
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

APPLICATION INFORMATION

Purpose of Application

This application for air permit is submitted to obtain: (Check one)

Air Construction Permit

Air construction permit.

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

This application is a request for authorization from the FDEP to install a new absorber dryer train.

See Part II.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Proc. Fee
001	Absorber Dryer System Train - 3	ACIE	NA

Application Processing Fee

Check one: Attached - Amount: \$ _____ Not Applicable

APPLICATION INFORMATION

Owner/Authorized Representative Statement

Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name : Martin Kreft, General Manager
2. Owner/Authorized Representative Mailing Address... Organization/Firm: Cedar Bay Generating Company Street Address: 9640 Eastport Road City: Jacksonville State: FL Zip Code: 32218-2260
3. Owner/Authorized Representative Telephone Numbers... Telephone: (904) 696-1143 ext. Fax: (904) 751-7320
4. Owner/Authorized Representative Email Address: martinkreft@cogentrix.com
5. Owner/Authorized Representative Statement: <i>I, the undersigned, am the owner or 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.</i>  Signature  Date

APPLICATION INFORMATION

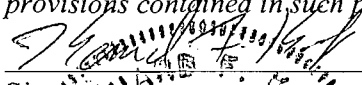
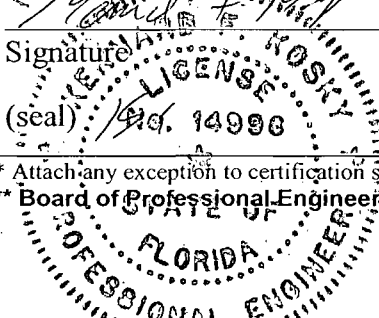
Application Responsible Official Certification

Complete if applying for an initial/revised/renewal Title V permit or concurrent processing of an air construction permit and a revised/renewal Title V permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1. Application Responsible Official Name:
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.
3. Application Responsible Official Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
4. Application Responsible Official Telephone Numbers... Telephone: () - ext. Fax: () -
5. Application Responsible Official Email Address:
6. Application Responsible Official Certification: I, the undersigned, am a responsible official of the Title V source 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 applicable requirements identified in this application to which the Title V source 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. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application. _____ Signature _____ Date

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: Kennard F. Kosky Registration Number: 14996
2. Professional Engineer Mailing Address... Organization/Firm: Golder Associates Inc.** Street Address: 6241 NW 23rd Street, Suite 500 City: Gainesville State: FL Zip Code: 32653
3. Professional Engineer Telephone Numbers... Telephone: (352) 336-5600 ext.516 Fax: (352) 336-6603
4. Professional Engineer Email Address: kkosky@golder.com
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i> (1) <i>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</i> (2) <i>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.</i> (3) <i>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.</i> (4) <i>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.</i> (5) <i>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.</i> Signature:  Date: <u>2/3/06</u> (seal) 

* Attach any exception to certification statement.

** Board of Professional Engineers Certificate of Authorization #00001670

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 East (km) 441.610 North (km) 3365.552		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 30/25/21 Longitude (DD/MM/SS) 81/36/23	
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 49	6. Facility SIC(s): 4911
7. Facility Comment: Applicant is seeking authorization to install a new absorber dryer system train. See Part II.			

Facility Contact

1. Facility Contact Name: Jeffery Walker, Environmental Manager
2. Facility Contact Mailing Address... Organization/Firm: Cedar Bay Generating Company Street Address: 9640 Eastport Road City: Jacksonville State: FL Zip Code: 32218-2260
3. Facility Contact Telephone Numbers: Telephone: (904) 696-1547 ext. Fax: (904)751-7320
4. Facility Contact Email Address: jeffwalker@cogentrix.com

Facility Primary Responsible Official

Complete if an "application responsible official" is identified in Section I. that is not the facility "primary responsible official."

1. Facility Primary Responsible Official Name:
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: _____ Street Address: _____ City: _____ State: _____ Zip Code: _____
3. Facility Primary Responsible Official Telephone Numbers... Telephone: () - ext. Fax: () -
4. Facility Primary Responsible Official Email Address: _____

FACILITY INFORMATION

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 checked="" 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: The applicable facility-wide conditions contained in the Title V permit will not change as a result of this application.	

FACILITY INFORMATION

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
PM - Particulate Matter Total	A	N
PM ₁₀ - Particulate Matter	A	N
NO _x - Nitrogen Oxides	A	N
SO ₂ - Sulfur Dioxide	A	N
CO - Carbon Monoxide	A	N
VOC - Volatile Organic Compounds	A	N

FACILITY INFORMATION

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 Nos. Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

FACILITY INFORMATION

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"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>Jan 2004</u>
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"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>Jan 2004</u>
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 type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: <u>Jan 2004</u>

Additional Requirements for Air Construction Permit Applications

1. Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (existing permitted facility)
2. Description of Proposed Construction or Modification: <input checked="" type="checkbox"/> Attached, Document ID: <u>See Part II</u>
3. Rule Applicability Analysis: <input checked="" type="checkbox"/> Attached, Document ID: <u>See Part II</u>
4. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification (Rule 62-212.400(2), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Preconstruction Air Quality Monitoring and Analysis (Rule 62-212.400(5)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Ambient Impact Analysis (Rule 62-212.400(5)(d), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(5)(h)5., F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(5)(e)1. and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

FACILITY INFORMATION

Additional Requirements for FESOP Applications

- | |
|--|
| 1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.):
<input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (no exempt units at facility) |
|--|

Additional Requirements for Title V Air Operation Permit Applications

1. List of Insignificant Activities (Required for initial/renewal applications only): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (revision application)
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"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (revision application with no change in applicable requirements)
3. Compliance Report and Plan (Required for all initial/revision/renewal applications): <input type="checkbox"/> Attached, Document ID: _____ 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.
4. List of Equipment/Activities Regulated under Title VI (If applicable, required for initial/renewal applications only): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input checked="" type="checkbox"/> Not Applicable
5. Verification of Risk Management Plan Submission to EPA (If applicable, required for initial/renewal applications only) : <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Requested Changes to Current Title V Air Operation Permit: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

See Part II.

EMISSIONS UNIT INFORMATION

Section [1]

ADS Train 3

III. EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Application – For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

Air Construction Permit or FESOP Application – For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an “unregulated emissions unit” does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application – Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

EMISSIONS UNIT INFORMATION

Section [1]

ADS Train 3

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (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:

Absorber Dryer System (ADS) Train 3

3. Emissions Unit Identification Number: **001**

4. Emissions Unit Status Code:
C

5. Commence Construction Date:
4/1/06

6. Initial Startup Date:
12/31/2006

7. Emissions Unit Major Group SIC Code:
49

8. Acid Rain Unit?
 Yes
 No

9. Package Unit:

Manufacturer:

Model Number:

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

ADS Train 3 crushes and dries limestone for use in the CFB boilers (see Part II).

EMISSIONS UNIT INFORMATION

Section [1]

ADS Train 3

Emissions Unit Control Equipment

1. Control Equipment/Method(s) Description:

Fabric Filter – Medium Temperature

2. Control Device or Method Code(s): **017**

EMISSIONS UNIT INFORMATION

Section [1]

ADS Train 3

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 44 tons/hr limestone		
2. Maximum Production Rate:		
3. Maximum Heat Input Rate: 13.4 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	8,760 hours/year
6. Operating Capacity/Schedule Comment:		

EMISSIONS UNIT INFORMATION

Section [1]
 ADS Train 3

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: See Part II		2. Emission Point Type Code: 2	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: ADS Train 2 stack			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 63 feet		7. Exit Diameter: 4.2 feet
8. Exit Temperature: 180 °F	9. Actual Volumetric Flow Rate: 20,500 acfm		10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: 17,500 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: 17 East (km): 441.66 North (km): 3365.68		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
15. Emission Point Comment: ADS Train 3 will exhaust through the stack for ADS Train 2.			

EMISSIONS UNIT INFORMATION

Section [1]
 ADS Train 3

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Segment 1 of 2: No. 2 Diesel fuel combustion		
2. Source Classification Code (SCC): 30590001	3. SCC Units: 1,000 gallons	
4. Maximum Hourly Rate: 0.1	5. Maximum Annual Rate: 876	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.05	8. Maximum % Ash:	9. Million Btu per SCC Unit: 134
10. Segment Comment: See Part II.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Segment 2 of 2: Mineral Products - Other		
2. Source Classification Code (SCC): 30599999	3. SCC Units: Tons	
4. Maximum Hourly Rate: 44	5. Maximum Annual Rate: 385,440	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: Limestone capacities provided. See Part II.		

EMISSIONS UNIT INFORMATION

Section [1]

ADS Train 3

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
PM	017		EL
PM ₁₀	017		EL
NO _x			NS
SO ₂			EL
CO			NS
VOC			NS

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

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ADS Train 3

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Particulate Matter Total - PM

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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 (TSP)		2. Total Percent Efficiency of Control: 99+	
3. Potential Emissions: 0.45 lb/hour 1.97 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: 0.003 gr/dscf Reference: Decker Industries		7. Emissions Method Code: 0	
8. Calculation of Emissions: 0.003 gr/dscf x 17,500 dscf/min x 1 lb/7,000 gr x 60 min/hr = 0.45 lb/hr 0.45 lb/hr x 8,760 hr/yr x ton/2,000 lbs = 1.97 TPY			
9. Pollutant Potential/Estimated Fugitive Emissions Comment: See Part II.			

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ADS Train 3

POLLUTANT DETAIL INFORMATION

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Particulate Matter Total - PM

**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	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.003 gr/dscf / 5 percent opacity	4. Equivalent Allowable Emissions: 0.45 lb/hour 1.97 tons/year
5. Method of Compliance: Initial compliance test using EPA Method 5 or 17; 40 CFR, Appendix A; subsequent tests using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): See Part II.	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

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ADS Train 3

POLLUTANT DETAIL INFORMATION

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Particulate Matter - PM₁₀

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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		2. Total Percent Efficiency of Control: 99+	
3. Potential Emissions: 0.45 lb/hour 1.97 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: 0.003 gr/dscf Reference: Decker Industries		7. Emissions Method Code: 0	
8. Calculation of Emissions: 0.003 gr/dscf x 17,500 dscf/min x 1 lb/7,000 gr x 60 min/hr = 0.45 lb/hr 0.45 lb/hr x 8,760 hr/yr x ton/2,000 lbs = 1.97 TPY			
9. Pollutant Potential/Estimated Fugitive Emissions Comment: See Part II.			

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

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ADS Train 3

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Particulate Matter - PM₁₀

**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	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.003 g/dscf / 5 percent opacity	4. Equivalent Allowable Emissions: 0.45 lb/hour 1.97 tons/year
5. Method of Compliance: Initial compliance test using Method 5 or 17; 40 CFR, Appendix A; subsequent tests using EPA Method 9.	
6. Allowable Emissions Comment (Description of Operating Method): See Part II.	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

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ADS Train 3

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Sulfur Dioxide

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.7 lb/hour 3.1tons/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: 0.05 percent sulfur distillate oil Reference:		7. Emissions Method Code: 0	
8. Calculation of Emissions: 0.05 percent x 1/100 x 100 gal/hr x 7 lb/gal x 2 lb SO₂/lb sulfur = 0.7 lb/hr 0.7 lb/hr x 8,760 hr/yr x ton/2,000 lb = 3.1 TPY			
9. Pollutant Potential/Estimated Fugitive Emissions Comment: See Part II.			

EMISSIONS UNIT INFORMATION

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ADS Train 3

POLLUTANT DETAIL INFORMATION

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Sulfur Dioxide

**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	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.05 percent sulfur	4. Equivalent Allowable Emissions: 0.7 lb/hour 3.1 tons/year
5. Method of Compliance: Fuel vendor analysis	
6. Allowable Emissions Comment (Description of Operating Method): See Part II.	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

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ADS Train 3

POLLUTANT DETAIL INFORMATION

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Nitrogen Oxides

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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: NO_x		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 1.6 lb/hour 7.0 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: 0.12 lb/MMBtu Reference: Decker Industries		7. Emissions Method Code: 0	
8. Calculation of Emissions: 13.4 MMBtu/hr x 0.12 lb/MMBtu = 1.6 lb/hr 1.6 lb/hr x 8,760 hr/yr x ton/2,000 lb = 7.0 TPY			
9. Pollutant Potential/Estimated Fugitive Emissions Comment: See Part II.			

**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	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: 1.6 lb/hour 7.0 tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): See Part II.	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 2.1lb/hour 9.4tons/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: 0.16 lb/MMBtu Reference: Decker Industries		7. Emissions Method Code: 0	
8. Calculation of Emissions: 13.4 MMBtu/hr x 0.16 lb/MMBtu = 2.1 lb/hr 2.1 lb/hr x 8,760 hr/yr x ton/2,000 lb = 9.4 TPY			
9. Pollutant Potential/Estimated Fugitive Emissions Comment: See Part II.			

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

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Carbon Monoxide

**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	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: 2.1 lb/hour 9.4 tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): See Part II.	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions ____ of ____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

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POLLUTANT DETAIL INFORMATION

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Volatile Organic Compounds

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

Potential/Estimated Fugitive 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		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 0.02 lb/hour 0.09 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: 0.2 lb/1,000 gal Reference: AP-42		7. Emissions Method Code: 0	
8. Calculation of Emissions: 100 gal/hr x 0.2 lb/1,000 gal = 0.02 lb/hr 0.02 lb/hr x 8,760 hr/yr x ton/2,000 lb = 0.09 TPY			
9. Pollutant Potential/Estimated Fugitive Emissions Comment: See Part II.			

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POLLUTANT DETAIL INFORMATION

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Volatile Organic Compounds

**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	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: 0.02 lb/hour 0.09 tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): See Part II.	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

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ADS Train 3

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 1

1. Visible Emissions Subtype: VE	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hour	
4. Method of Compliance: EPA Method 9.	
5. Visible Emissions Comment: Exceptional conditions allowed for 2 hours per 24-hour period by Rule 62-210.700(1) for Startup, Shutdown, and Malfunction.	

Visible Emissions Limitation: Visible Emissions Limitation ____ of ____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [1]

ADS Train 3

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor ____ of ____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ____ of ____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [1]

ADS Train 3

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 checked="" type="checkbox"/> Attached, Document ID: See Part II <input type="checkbox"/> Previously Submitted, Date _____
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 checked="" type="checkbox"/> Attached, Document ID: See Part II <input type="checkbox"/> Previously Submitted, Date _____
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 checked="" type="checkbox"/> Attached, Document ID: See Part II <input type="checkbox"/> Previously Submitted, Date _____
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"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
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"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable <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>
7. Other Information Required by Rule or Statute <input checked="" type="checkbox"/> Attached, Document ID: See Part II <input type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [1]

ADS Train 3

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [1]

ADS Train 3

Additional Requirements Comment

PART II

PART II

1.0 INTRODUCTION

Cedar Bay Generating Company, L.P. is seeking authorization from the Florida Department of Environmental Protection (FDEP) to install a new Absorber Dryer System (ADS) at the Cedar Bay Cogeneration Facility. Currently, the facility has two 40-ton-per-hour (TPH) ADS trains that process limestone as a reactant for the circulating fluidized bed (CFB) boilers to control sulfur dioxide (SO₂) and other acid gases. Limestone is sized (crushed) and dried in the existing ADS trains for use in the CFB boilers. The current systems are identical and referred to as ADS Trains 1 and 2. These existing systems are identified in the Title V permit as Emission Units 004 and 005. The new system will be referred to as ADS Train 3 and will provide a more consistent reactant than currently available from the existing ADS trains. The existing ADS trains have experienced operational problems and are near the end of their useful life without refurbishment.

2.0 PROJECT DESCRIPTION

The new ADS system will consist of material-handling equipment and sizing and drying equipment to provide 44 TPH of limestone as the reactant in the existing CFB boilers. An impact mill will be used to size the limestone to nominal size of 98 to 99 percent passing 18-mesh sieves. A heater, rated at 13.4 Million British thermal units per hour (MMBtu/hr), supplies heat to dry the limestone that meets the requirements for the CFB boilers (1-percent moisture). Similar to the existing systems, a fabric filter will be used for particulate matter (PM) control. Figure 1 presents a flow diagram of the proposed system. The limestone reactant prepared by the new ADS Train 3 will be stored and handled using the existing systems that supply limestone to the CFB boilers. The exhaust of the new ADS Train 3 will be through the existing stack for ADS Train 2. The existing stack will be equipped with an isolation damper that will allow the initial testing of the project. After construction, the new ADS Train 3 will be used as the primary system supplying reactant to the CFB boilers, while the existing ADS trains will be used as backup. In the future these trains may be refurbished.

3.0 AIR EMISSIONS

The air emissions for the project are listed in Table 1. The new ADS Train 3 will have a MikroPul fabric filter system using pulse jet technology for PM removal. The baghouse size will be about 5,700 cubic feet with an air-to-cloth ratio of 3.65 to 1. Attachment A provides manufacturer information that is representative of the fabric filter system to be installed for the project. The manufacturer guarantee is 0.003 grains per dry standard cubic feet (gr/dscf).

Table 2 presents the estimated fugitive PM/PM₁₀ emissions associated with limestone handling. The amount of limestone is based on the full capacity of the new ADS Train 3. These emission estimates are conservative since the moisture content of the limestone is the design specification. Moisture content is typically greater, which would result in lower PM/PM₁₀ emissions.

4.0 REGULATORY APPLICABILITY

Authorization for this project is being sought independently of the existing ADS Trains 1 and 2. The maximum capacities and fuel usage requested is 44 TPH and 385,440 tons per year (TPY) for limestone and 100 gallons per hour and 876,000 gallons per year for No. 2 distillate oil use. The maximum potential air emissions for the project at the requested capacities are less than the thresholds requiring review under the Prevention of Significant Deterioration (PSD) rules in Chapter 62-212 of the Florida Administrative Code (F.A.C.). The maximum potential emissions for PM/PM₁₀, SO₂, NO_x, CO, and VOC are 1.97, 3.1, 7.0, 9.4, and 0.09 TPY, respectively. The PSD thresholds are 25/15, 40, 40, 100, and 40 TPY, for PM/PM₁₀, SO₂, NO_x, CO, and VOC, respectively. As a result, the project requires a minor source air construction permit pursuant to the FDEP rules.

The grinding of limestone for use in the CFB boilers is subject to the NSPS codified in 40 CFR Part 60 Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants. Limestone, is defined as a nonmetallic mineral and the crushing or grinding of a nonmetallic mineral is an affected facility under the NSPS. The NSPS apply to certain activities with the most stringent requirements being a PM emission limit of 0.05 gram per dry standard cubic meter (gr/dscm) and 7-percent opacity. The emissions associated with the new ADS train will meet these requirements. The PM emission limit of 0.05 gr/dscm is equivalent to 0.022 gr/dscf, which is much higher than that being proposed for the project. The proposed opacity limit for the project is 5-percent opacity.

Based on the regulatory applicability for the project, Cedar Bay requests FDEP's consideration of the following permit conditions. These conditions are similar to those currently applicable to ADS Trains 1 and 2.

Permitted Capacity. The maximum material handling/usage rates for all limestone unloading and storage shall not exceed the following:

Unloading/Storage Handling/Usage Rate		
Material	TPH	TPY
Limestone/Aragonite	44	385,440

Hours of Operation. ADS Train 3 may be operated 8,760 hours per year.

Methods of Operation - Fuel. The ADS-3 dryer is permitted to fire only No. 2 fuel oil. The maximum firing rate of No. 2 fuel oil shall not exceed 100 gallons per hour nor 385,440 gallons per year.

Particulate Matter Emissions. PM emissions from ADS Train 3 shall not exceed 0.003 gr/dscf.

Visible Emissions. VE from ADS Train 3 shall not exceed 5 percent opacity.

No. 2 Fuel Oil Sulfur Content. The maximum No. 2 fuel oil sulfur content used in ADS Train 3 shall not exceed 0.05 percent, by weight.

Annual Tests Required. Annual VE compliance tests shall be performed for ADS Train 3.

Visible Emissions. The test method for VE shall be EPA Method 9, incorporated in Chapter 62-297, F.A.C.

Particulate Matter Emissions. The test method for PM emissions shall be EPA Method 5 or 17, incorporated in Chapter 62-297, F.A.C.

Particulate Matter and VE Testing. Initial testing is required for ADS-3 train. Subsequent to the initial PM mass emissions test, neither the Department nor the AWQD shall require a PM mass emissions test unless the VE limit of 5 percent opacity is exceeded for a given emissions unit, or unless the FDEP or the AWQD, based on other information, has reason to

believe that the particulate matter emissions limit is being violated. When both PM and VE compliance tests are required, they shall be conducted concurrently, except where inclement weather interferes.

No. 2 Fuel Oil Sulfur Content. For the ADS Train 3, the fuel sulfur content, percent by weight, shall be analyzed using either ASTM D2622-92, ASTM D4294-90, both ASTM D4057-88 and ASTM D129-91, or the latest edition. If the No. 2 fuel oil being delivered has a sulfur content of 0.05 percent or less, by weight, then the vendor's analysis is acceptable and no further analysis is required. However, if the No. 2 fuel oil being delivered has a sulfur content greater than 0.05 percent, by weight, the permittee shall have an as-fired sample analyzed.

TABLES

TABLE 1
ABSORBER DRYER SYSTEM (ADS) TRAIN 3 CAPACITY
AND MAXIMUM POTENTIAL EMISSIONS

	Data	Units
Drying Capacity	44	tons/hour
	385,440	tons/yr
Fuel Rate	100	gal/hr
	876,000	gal/yr
Fuel Heat Content	19,150	Btu/lb
Fuel Density	7.0	lb/gal
Heat Input	13.4	MMBtu/hr
Exhaust Flow	17,500	dscfm
	20,500	acfm
Stack Height	63.0	feet
Stack Diameter	4.2	feet
Stack Temperature	180.0	°F
Emissions		
PM/PM ₁₀	0.003	gr/dscf ^a
	0.45	lb/hr
	1.97	tons/year
SO ₂	0.05%	sulfur by weight
	0.7	lb/hr
	3.1	tons/year
NO _x	0.12	lb/MM Btu ^a
	1.6	lb/hr
	7.0	tons/year
CO	0.16	lb/MM Btu ^a
	2.1	lb/hr
	9.4	tons/year
VOC	0.2	lb/1,000 gal ^b
	0.02	lb/hr
	0.09	tons/year

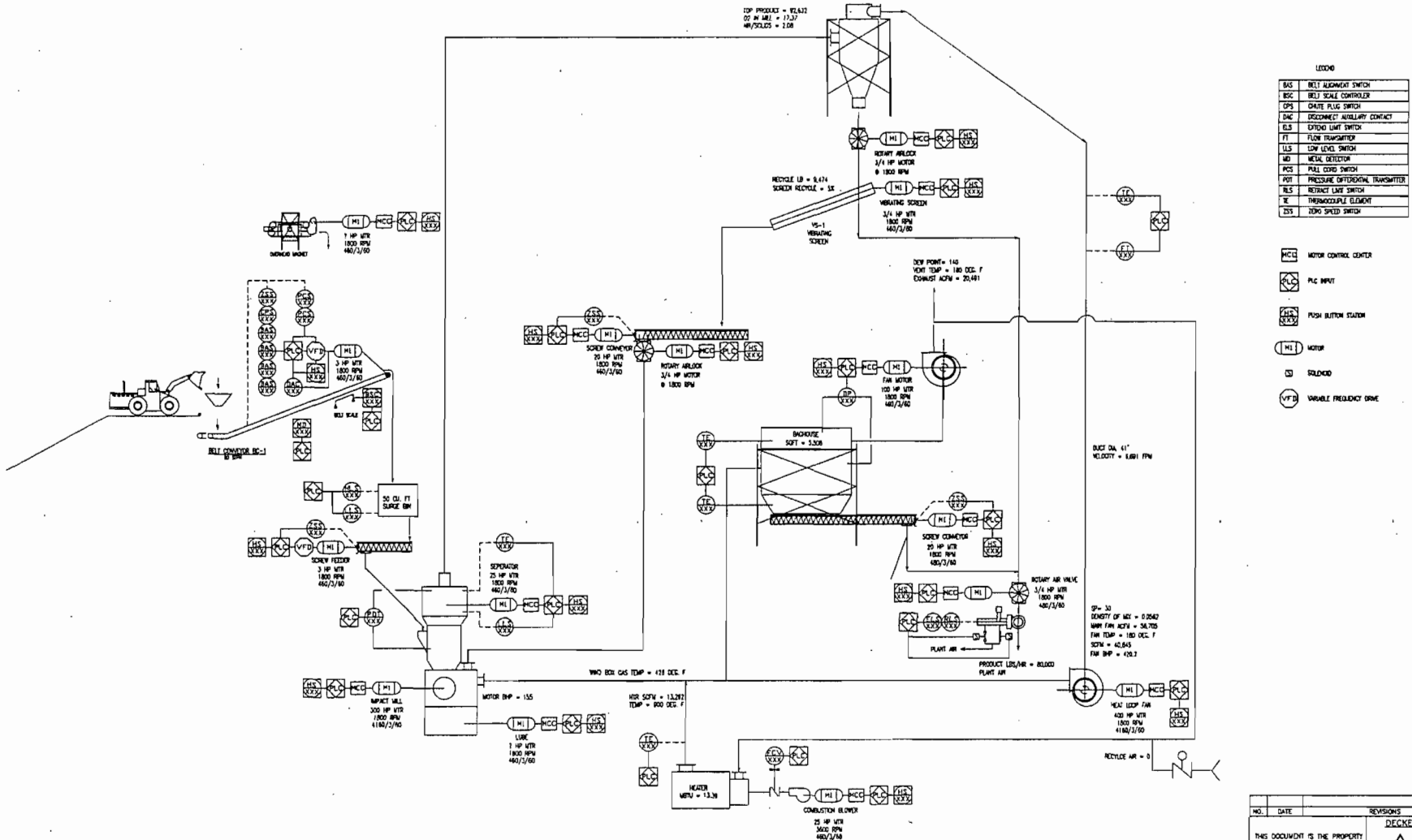
^a based on manufacturer information

^b based on AP-42; Table 1.3-3

**TABLE 2
CALCULATIONS FUGITIVE EMISSIONS FOR ABSORBER DRYER SYSTEM 3**

Estimates of Limestone Used:		
	Data	Units Basis
Limestone for Absorber C	385,440.0	tons/year 44 tons/hr x 8,760 hrs/yr
 Fugitive Emissions:		
Fugitive emissions based on material drop equations in AP-42, 4th Edition 11.2.3:		
$EF = k \times (0.0032) \times (U/5)^{1.3} / (M/2)^{1.4}$		
where: EF is the emission factor in lb/ton k is particle size factor; 0.74 for PM and 0.35 for PM10 U is average wind speed for Jacksonville International Airport: 8 miles/hour M is percent moisture: 3 percent		
$EF \text{ PM} = 0.74 \times (0.0032) \times (8/5)^{1.3} / (15/2)^{1.4}$		
EF PM =	0.002472919	lb/ton
$EF \text{ PM10} = 0.35 \times (0.0032) \times (7.8/5)^{1.3} / (6/2)^{1.4}$		
EF PM10 =	0.001169624	lb/ton
Number of Drops	2	Truck unloading and loading hopper
PM Emissions	1906.32	lb/year 0.95 tons/year
PM10 Emissions	901.64	lb/yr 0.45 tons/year

FIGURE 1



LEGEND

BAS	BELT ALIGNMENT SWITCH
BSC	BELT SCALE CONTROLLER
OPS	CHUTE PLUG SWITCH
DAC	DISCONNECT AUXILIARY CONTACT
CLS	CYCLE LIMIT SWITCH
FT	FLOW TRANSMITTER
LLS	LOW LEVEL SWITCH
MD	METAL DETECTOR
PCS	PULL CYCLE SWITCH
POT	PRESSURE DIFFERENTIAL TRANSMITTER
RES	RESTRICT LINE SWITCH
TE	THERMOPILE ELEMENT
ZSS	ZERO SPEED SWITCH

- MCI MOTOR CONTROL CENTER
- PLS PLC INPUT
- PLS PUSH BUTTON STATION
- MLI MOTOR
- RES RESTRICTED
- VFD VARIABLE FREQUENCY DRIVE

NO.	DATE	REVISIONS	BY
DECKER INDUSTRIES MISS CHARLIE HAY, LAKE WILE, NC 28170 TEL: 803-831-1001 FAX: 803-831-7263			

UNLESS OTHERWISE SPECIFIED

GENERAL FINISH	AS BUILT
WELD	AS BUILT
PAINT	AS BUILT
FRANCHISE	AS BUILT

FIGURE I
0637514/4.4/Figure I

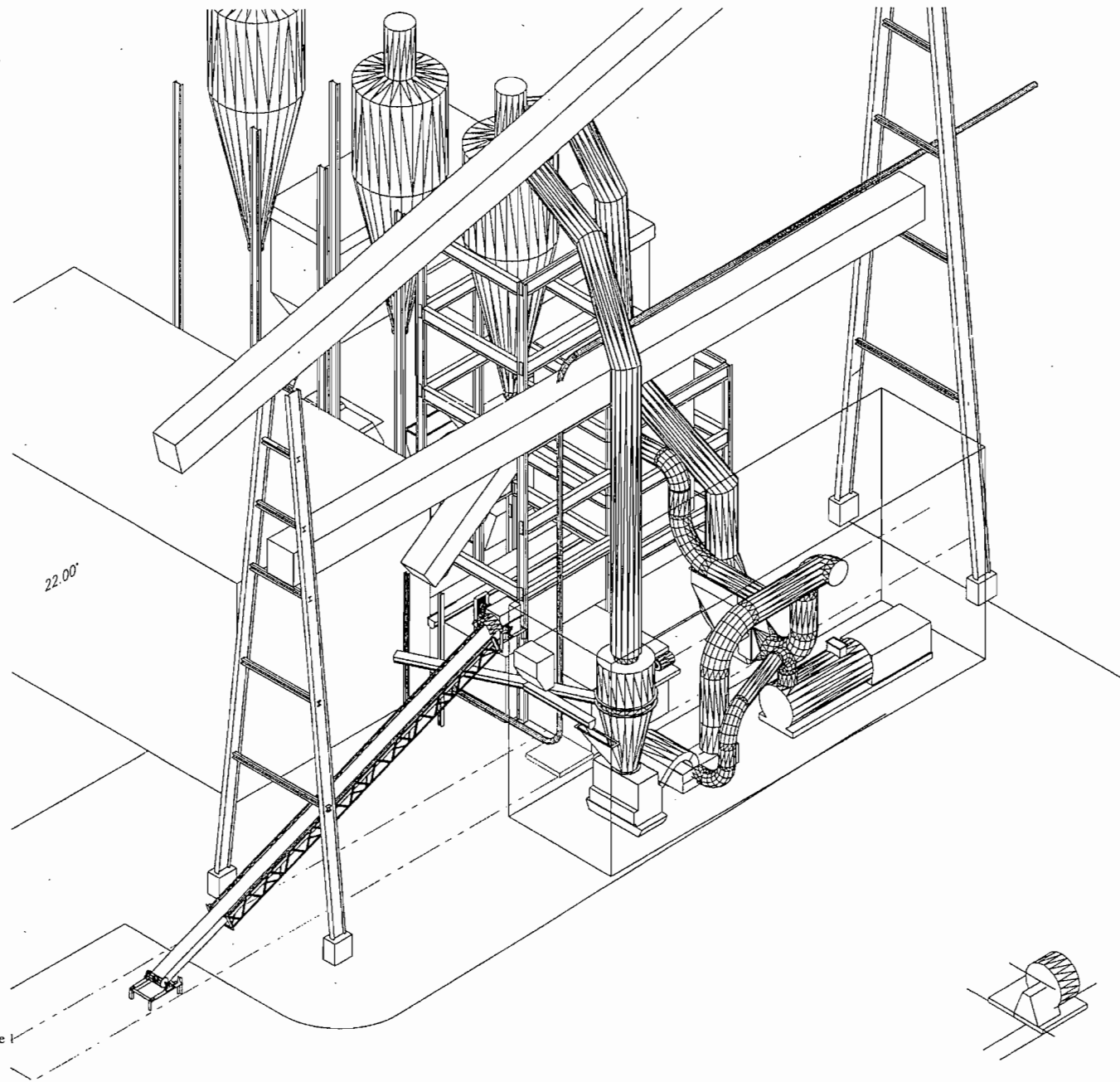
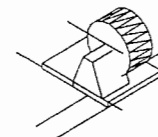


FIGURE 1
0637514/4.4/Figure 1



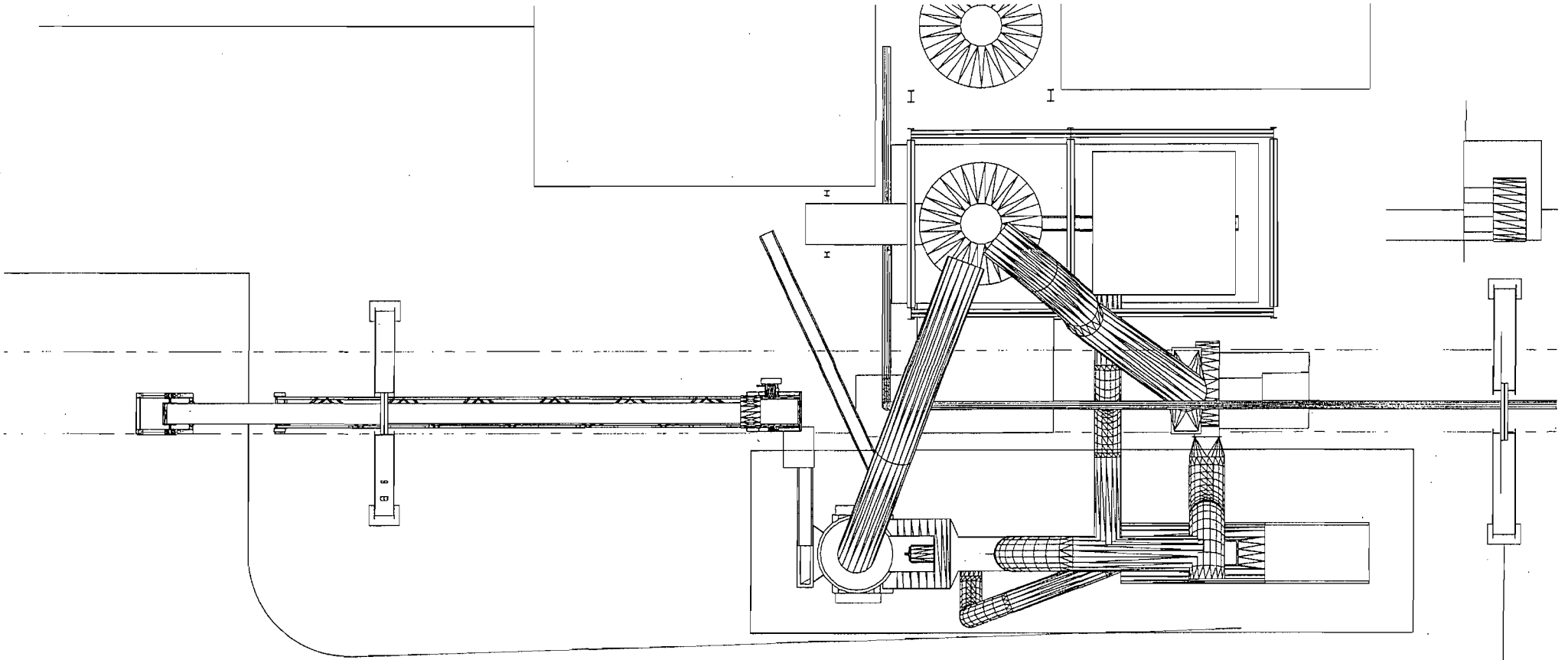


FIGURE 1
0637514/4.4/Figure 1

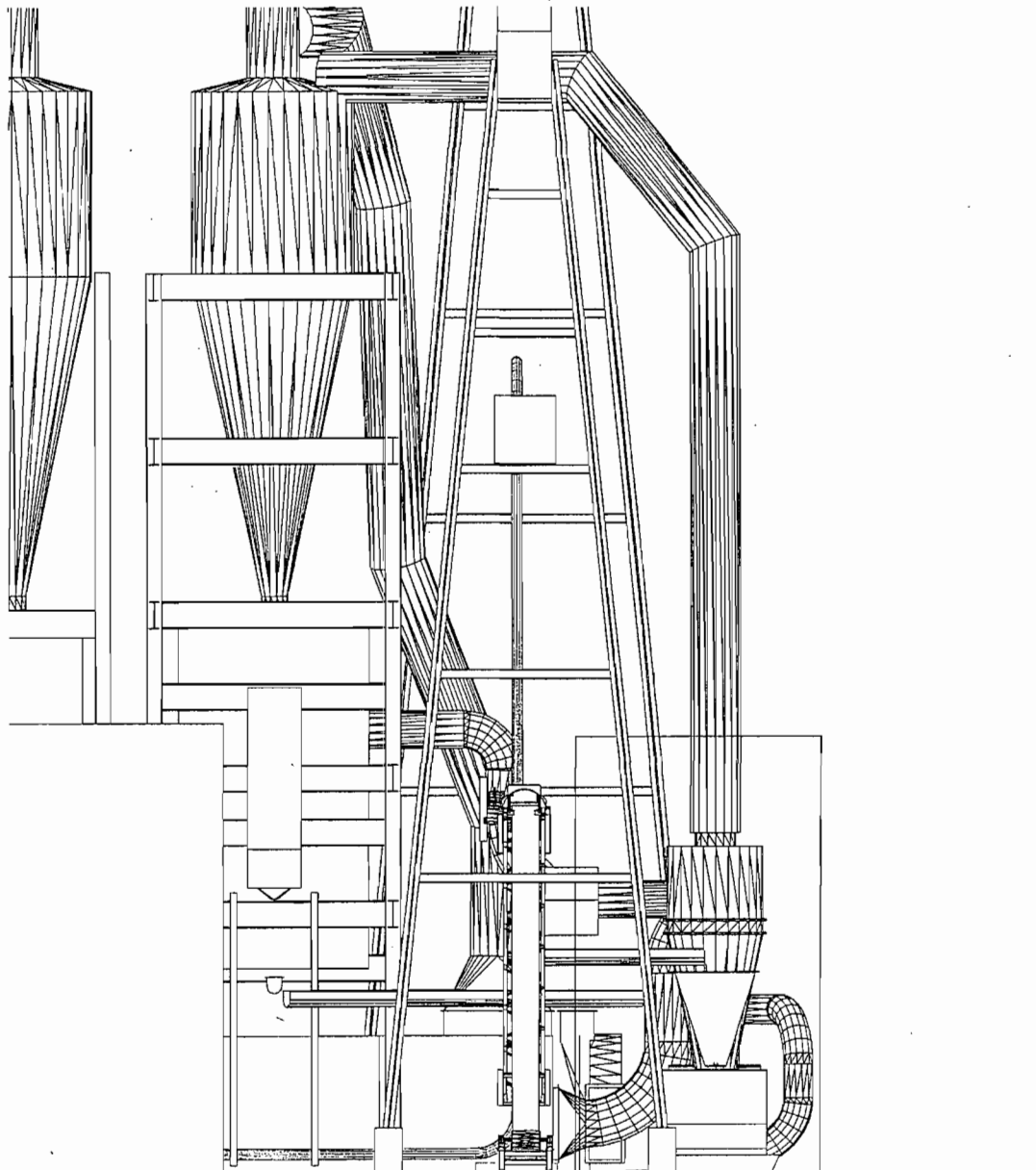


FIGURE 1
0637514/4.4/Figure 1

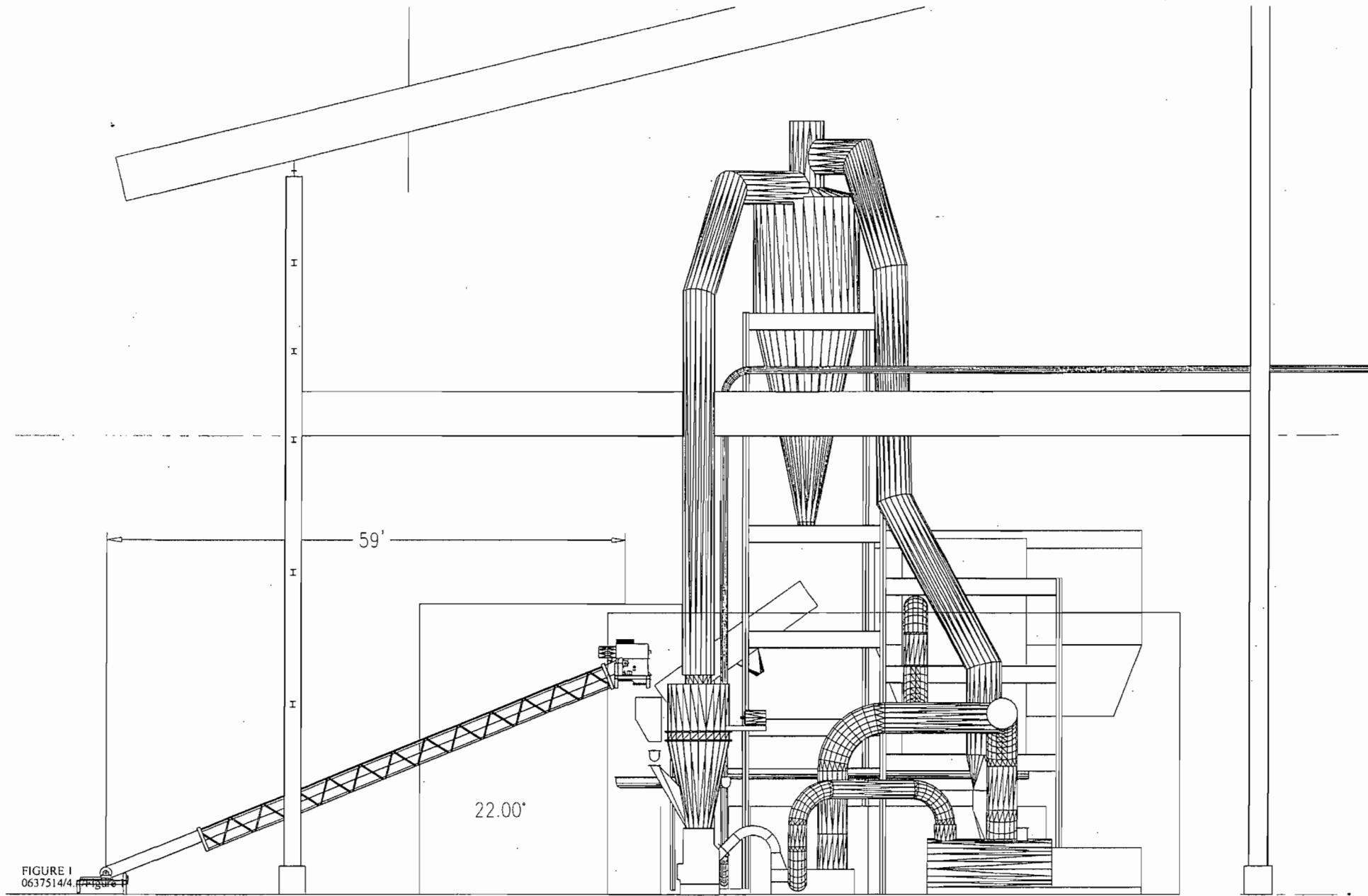
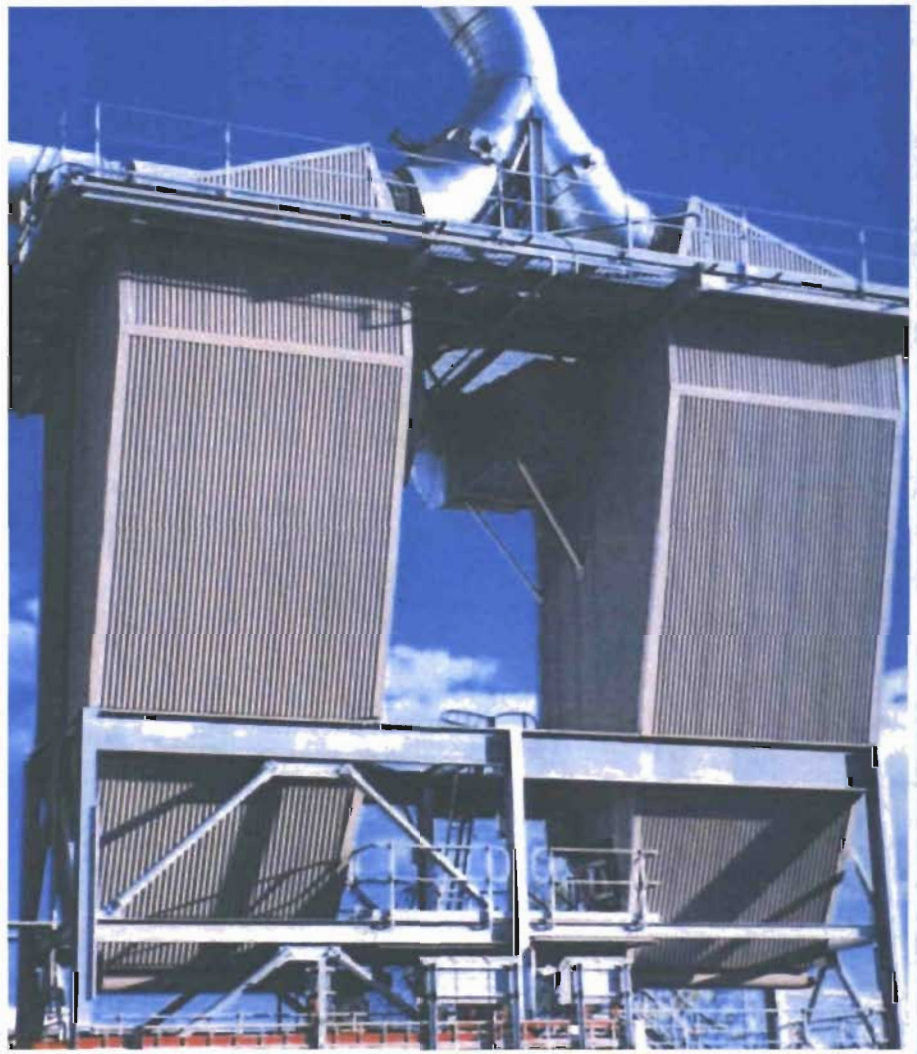


FIGURE 1
0637514/4

ATTACHMENT A

MIKRO-PULSAIRE®
DUST COLLECTORS



MIKROPUL

DRY FILTRATION
WET SCRUBBERS
CYCLONES
WET ELECTROSTATIC
PRECIPITATORS

MIKRO-PULSAIRE® DUST COLLECTOR

MikroPul invented the first pulse-jet dust collector in 1956 and has since installed more than 160,000 systems. Our extensive experience has created a comprehensive application database, allowing us to recommend the best, proven solution for your dust control needs.

How The Mikro-Pulsaire Works

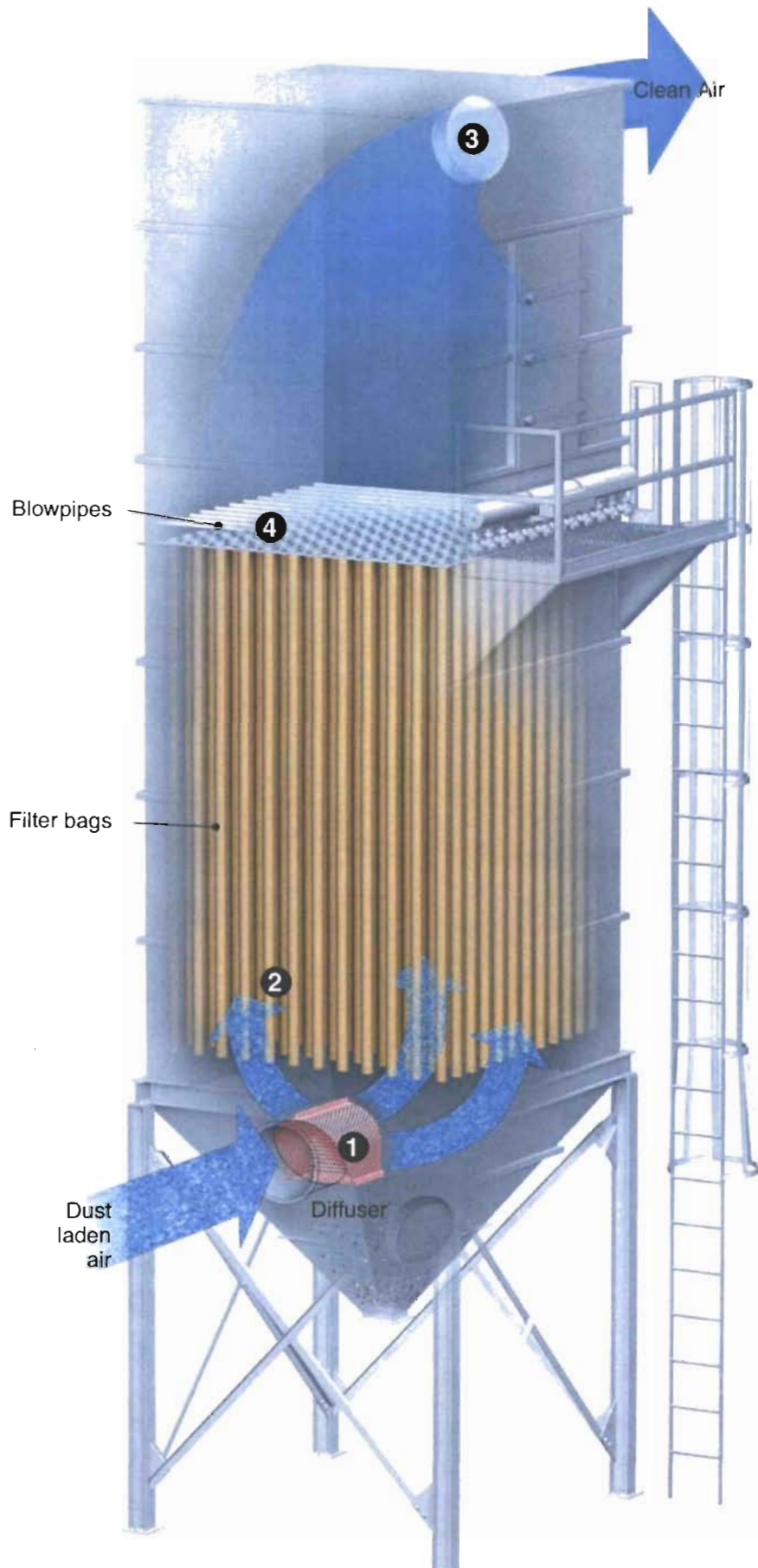
The dust-tight Pulsaire has three sections: a clean-air plenum at the top, a filtration housing containing a number of cylindrical filter bags in the middle, and a dust inlet/discharge hopper at the bottom. The filter bags are supported from a tube sheet which separates the filtration housing from the plenum.

Dust laden air enters the collector through a diffuser (1) which absorbs the impact of the high velocity dust particles, distributes the air, and reduces its velocity. The slower air speed causes the heavier particles to drop into the hopper. The air stream then flows through the filter bags (2), depositing the fine dust on the outside of the bag. The cleaned air continues upward into the plenum and exhausts into the atmosphere (3).

Filter bags are cleaned by a momentary, high pressure back-pulse of compressed air from the clean side of the bag. The pulses are delivered by blowpipes (4), arranged over each row of bags, incorporating orifice nozzles directed into the center of each bag. The bursts of air are optimized by venturis located at the top of the bags to effectively dislodge dust along the length of the bag.

Cleaning cycles are timed by a Model 72 solid state 10-position timer. A differential pressure (between the clean and dirty sides) gauge helps determine cleaning frequency.

Shown with optional walk-in plenum, ladder, platform, and support legs



ADVANTAFLOW INLET TECHNOLOGY

Eight years of field and laboratory research revealed that a major problem with dust collector performance is uneven air flow distribution to the filter elements. This uneven distribution is the result of ineffective inlet and diffuser device designs.

Several diffuser designs were investigated: Impingement Plate, Perforated Disc, and Perforated Mail-Box. In all cases the air stream formed two vortex motions. The primary vortex occurs in the filter housing causing very high localized dust laden velocities. A secondary vortex motion is created in the lower part of the hopper, causing high dust re-entrainment and uneven dust discharge.

This condition is the main reason for:

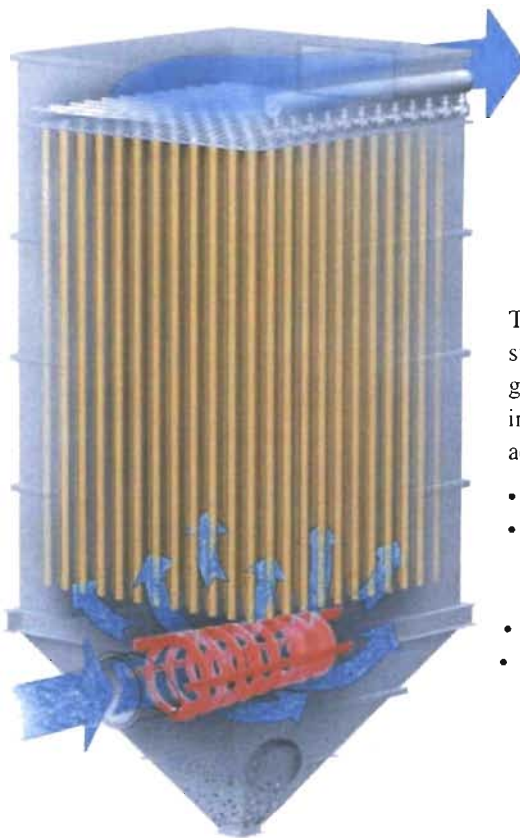
- Abrasion
- Short bag life
- Dust seepage
- High pressure drops
- Reduced air flow capacity
- High cleaning power consumption

Two Solutions

MikroPul R&D arrived at two patented solutions that effectively distribute air flow evenly to the filter bags: The Cascadair hopper inlet and Expandiffuse side inlet, both described at right.

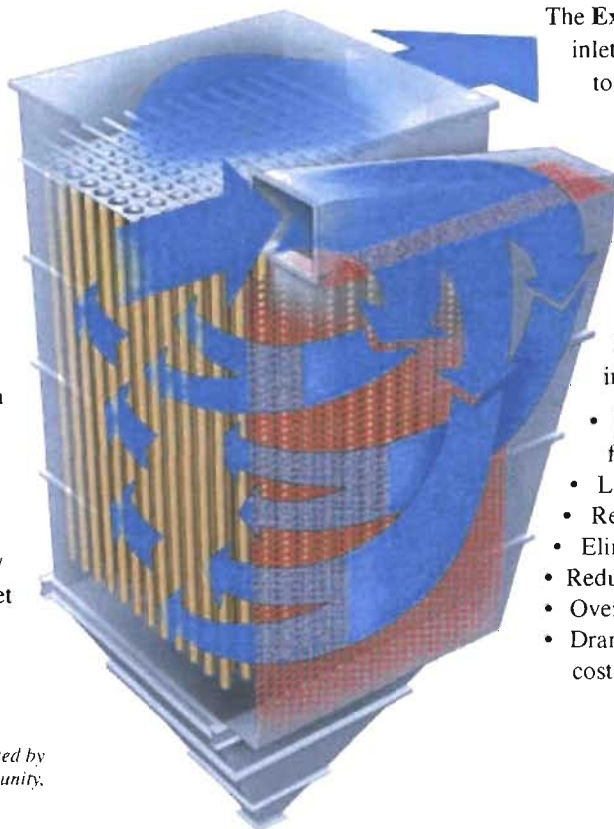
Cascadair and Expandiffuse can be retrofitted to improve the performance of any style or make of pulse-jet collector. The Cascadair can also be used to improve the performance of any dust collector with a hopper inlet including shaker or reverse-air type units.

Cascadair and Expandiffuse are protected by Australian, Canadian, European Community, Japanese, and U.S. patents.



The **Cascadair™** diffuser uses a succession of orifice plates to gradually divert portions of the incoming air in stages. The results achieved:

- Increased bag life
- Lower pressure drop or significantly increased air flow capacity
- Minimum dust re-entrainment
- Overall better filter performance



The **Expandiffuse™** is a two stage inlet with diffusers at right angles to each other. Air enters the filter housing from the side of the unit at velocities reduced over 90%. This design improves pulse-jet performance by as much as 40% (or more when combined with MikroPul's Long Bag technology). Benefits include:

- Higher A/C ratio; i.e. greater flow capacity
- Longer bag life
- Reduced pressure drop
- Elimination of dust reentrainment
- Reduction of pulse air consumption
- Overall better filter performance
- Dramatically reduced maintenance costs

MODELS AND APPLICATIONS

Bin Vents

Bin Vent Collectors are used on top of silos and bins or where the bin loading system requires aspiration. MikroPul carries the most common bin vent sizes in stock for quick delivery.

Insertables

Insertable collectors are self-contained units which are integrated into an existing enclosure, allowing dust to be retained at the point at which it is generated.

Common applications: mechanical and pneumatic conveyors, conveyor feed silos, air slides, process machinery, and bins in which powders are fluidized.

Modular Units

Fully assembled Mikro-Pulsaires are ideal for applications requiring filter area generally between 76 and 4,500 ft² of cloth.

Common applications: size reduction machinery, spray dryers, separators, calciners, mixers, packaging machines, conveyors, chemical manufacturers, foundries, grinders, and many other industrial applications.

Large Sectional Units

For large applications, generally above 4,500 ft² cloth area, collectors are provided in prewired sections sized to suit shipping limitations. Subassemblies can be prepared for bolting and/or welding on site.

Common applications: kilns, boilers, dryers, mixers, coke pushing systems, sinter strand systems, furnaces, ladle casters, foundry sources, smelters, and many chemical applications.

Bag Access Styles

Mikro-Pulsaires can be supplied with bag access from either the dirty or clean side of the filter. Choices include:

- Bottom removal—ideal for small



Bin vent



Preassembled



Large sectional



Top removal

- baghouses or where headroom restraints prevent top removal
- Top removal—access doors on top of unit permit bag maintenance from the clean side, allowing quicker changeout. Leaking bags can be detected rapidly and easily.
- Top removal with walk-in plenum—Also protects maintenance personnel, media, and



Top removal with walk-in plenum

valuable, recoverable product from the weather. Work platform and access door provide entry into the clean air plenum.

Cylindrical Units

MikroPul cylindrical collectors are for high vacuum or high pressure applications. Units can be supplied for bag replacement from either the clean or dirty side of the tubesheet. Special designs are available including:

- Housing diameters up to 30 ft.
- Abrasion resistant design.
- Quick changeout design where all bags are removed and installed as a unit.
- Heated filter housing by means of heating coils or vessel jacket.
- Explosion relief housing design.
- Housings built to pressure vessel code specifications.

Common applications: spray drying, separating, coal grinding, mixing food manufacturing, car loading, and product receiving from process applications.

Tangential Inlet Model. The MikroPulsaire tangential inlet collector can handle dust loads over 450 grains/ft³ and air-to-cloth ratios of up to 20:1. The inlet acts as a cyclone, causing the air to spin and consequently throw the heavy particulate to the walls and then into the hopper. The fine particles are collected on the filter bags. This design can handle between 1,000 and 60,000+ CFM. *Common applications:* sander dust, fine lint, cellulose, and grain.

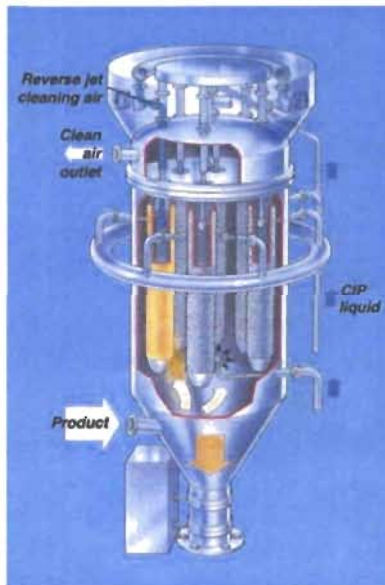
Clean In Place Units

MikroPul offers a patented design for thoroughly cleaning the filter elements without removing them. Features include:

- Total containment for operator and product protection
- Crack and crevice free design
- Sintered stainless steel metal fiber or fabric filter elements
- Full CIP washing and drying sequence control available



Typical custom built process filter



Patented CIP filter design

- Designs to BS 5500, ASME VIII and IX, and VDI 2263
- Pharmaceutical units suitable for FDA validation
- Cleaning by water or organic solvents
- Custom designed to suit each individual application



Dust collector with thermplate heating jacket and ring duct



Steam jet mill filter for titanium dioxide

FILTER MEDIA AND RETAINER ASSEMBLIES

When MikroPul invented the pulse-jet collector, we had to develop the fabric filter bag to make it succeed, and we've been innovating ever since. Filter bag choices include:

- Fabric material and type – an assortment of bag constructions and media fibers are available to suit practically any need.
- Fabric finishes – MikroPul offers a wide variety of finishes and treatments to enhance filtration performance or resist chemical attack.
- Bag length – bags are available in lengths from 2.5 to 26 feet.

Long-Bag™ Technology

The practical limit for bag length was 12 feet until MikroPul developed Long Bag technology. Difficulties such as reintrainment, turbulence, unreliable gas distribution, and inability to clean filter continuously, among others, were successfully addressed. Benefits can include:

- Lower pressure drops
- Less pulse cleaning required to maintain a given pressure drop
- Higher filter rates
- Savings in capital, real estate, and maintenance costs

Pleated Filters

MikroPul's Mikro-Pleat™ pleated elements combine the advantages of traditional pulse-jet filter bags and cartridge filters. In many cases, they provide two or more times the cloth area of a conventional filter bag. Replacing existing bags with Mikro-

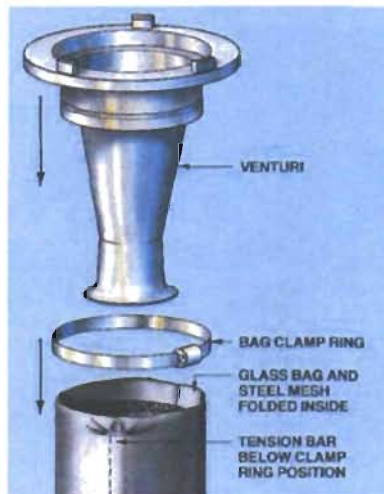


Pleat elements can significantly increase baghouse performance without altering the size of the baghouse.

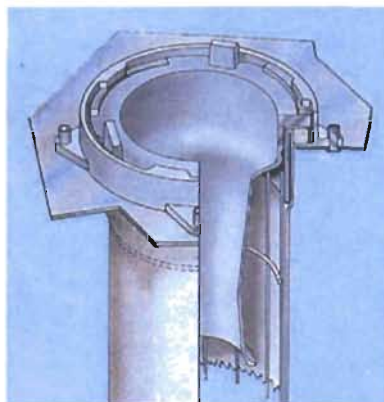
Filter Bag and Retainer Design

MikroPul offers more filter-to-tubesheet connections than anyone. Choices include:

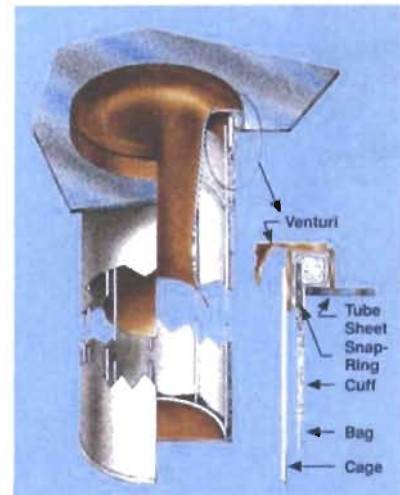
Standard Twist Lock—utilizes separate venturi, retainer assembly, gasket and fold-over bag. A clamp around the outside of the bag, and gasket between the venturi and tubesheet provide a leak free seal.



European (clampless)—top removal three-part assembly is very simple to install. The filter bag is put in the tubesheet, and the retainer is slipped inside. The venturi is twist-locked into a die cast collar, which is riveted to the tubesheet.



Snap Ring—top removal design utilizes two pieces: the snap ring bag and the one piece venturi/retainer assembly. Installation is done by snapping the bag firmly into the tube-sheet and then placing the venturi/retainer assembly into the bag.



Pop-Top®—These innovative filter bag and cage assemblies save time and money. Changeout is easier (see sequence below) and quicker, yet in most cases they cost no more than standard designs.



Pop-Top bag and cage assemblies are changed out easily and quickly

PULSE TIMERS

Standard Timer

This all solid state sequential timer is supplied as standard equipment for all MikroPul pulse-jet collectors. It is capable of switching 10 independent outputs, allowing it to be used as a 10 position timer. It can also service up to 50 valves (five off each output), as it is supplied for handling more than one dust collector.

Pulse-By-Demand Timer System

This state-of-the-art technology precisely controls filter bag pressure drop (ΔP) in your pulse-jet dust collector. Unlike other "clean-on-demand" timers, which wait until bag ΔP is high to begin pulse cleaning and then overclean to bring the ΔP to a lower level, it senses even small changes in ΔP and responds by providing the precise amount of cleaning needed to control the pressure drop to the level you want.

The result is reduced operating costs and a constant gas flow rate and fan power consumption.

Benefits

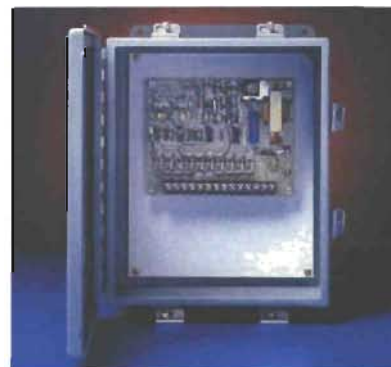
- No wide swings in ΔP and air flow
- Reduced compressed air use
- Longer bag life
- Reduced fan power consumption

PulsePro™

PulsePro Controls set a new standard for dust collector control by seamlessly integrating pulse-jet timing, pressure gauging, leak detection, and other measurements into a single easy-to-use device.

Integration of control and sensing:

- Lowers installation and operating costs
- Reduces emissions
- Enables automatic diagnostics such as locating failed solenoids, diaphragms, and filter leaks.



Model 72 timer



PulsePro control, monitoring, and diagnostic system

OPTIONS

Every collector is customized for the application. Some of the most common options include:

- Materials of construction to suit your requirements
- Advantaflo inlet technology
- Rotary airlocks
- Explosion proof electricals
- External catwalk
- High temperature design
- Explosion doors meeting NFPA standards
- Inspection windows
- Standlegs and bracing
- Ladder and cage
- Bag grid and/or man grid
- Weather hood over access door
- Pressure gage on header

- Special interior and exterior coatings to your specification
- Pulse-by-demand timers
- PulseTRAC diagnostic system
- Mikro-Charge™ leak detector
- Opti-Coat media conditioning agent
- Gas tight construction
- High pressure construction
- Construction to meet code requirements
- Pulse isolation valves



Rotary airlock

PARTS AND SERVICE

MikroPul backs up our products with reliable and responsive customer support. Call us any time you need help.

Parts

We carry a full line of replacement parts, and keep most-used items on the shelf for immediate shipment. Mikro-Pulsaire parts and accessories available include:

- Filter bags and cages
- Clamps
- Blow pipes
- Diaphragm valves and repair kits
- Solenoid valves and repair kits
- Tubesheets
- Differential pressure gauges
- Timers
- Fans

- Rotary airlocks and replacement vanes
- Access doors
- Door seals
- Explosion vents
- Vent valves
- Acoustic horns
- Hopper vibrators
- Vacuum systems
- Screw conveyors

Services

MikroPul provides an array of services to help you select, install, operate, and maximize your equipment investment. Services include:

- Clean air preparation program
- Inspections
- Collector refurbishing



- Collector rebuilding
- Converting old collectors to new technology
- Preventive maintenance programs
- Bag testing
- Maintenance seminars
- Erection services

MikroPul Global Network

Americas

MikroPul Headquarters
4500 Chesapeake Dr.
Charlotte, NC 28216, USA
Tel: 704-998-2600
Fax: 704-998-2601
info@mikropul.com

MikroPul Pittsburgh
2591 Wexford-Bayne Road, Suite 202
Sewickley, PA 15143, USA
Tel: 724-934-3910
Fax: 724-934-3934
pittsburgh@mikropul.com

MikroPul Chatham
17 Watchung Avenue
Chatham, NJ 07928, USA
Tel: 973-635-1115
Fax: 973-635-0678
info@mikropul.com

MikroPul Canada, Inc.
245 Matheson Blvd. E., Unit # 10
Mississauga, Ontario L4Z 3C9
CANADA
Tel: 905-712-0722
Fax: 905-712-0027
info@ca.mikropul.com

MikroPul, S de RL de CV
Av. Lomas Verdes No. 480-302B
Col. Lomas Verdes
CP 53120 Naucalpan
Edo. de Mexico
Tel: 52-55-5343-8224
Fax: 52-55-5344-5081
info@mx.mikropul.com

Europe

MikroPul GmbH & Co. KG
Welserstrasse 9-11
D-51149 Cologne
GERMANY
Tel: +49-2203-9391-0
Fax: +49-2203-9391-293
info@mikropul.de

MikroPul France
Parc Club du Moulin à Vent
33, Avenue Dr. Georges Lévy
69693 Vénissieux Cédex
FRANCE
Tel: +33 478 78 9005
Fax: +33 478 01 9458
mikropul@easynet.fr

MikroPul Limited
Chadwick House
Birchwood Park
Warrington, Cheshire WA3 6AE
UNITED KINGDOM
Tel: +44-01925-849220
Fax: +44-01925-849221
info@uk.mikropul.com

Asia/Pacific

MikroPul Australia Pty Ltd
1 Toohey Road
Wetherill Park, NSW 2164
AUSTRALIA
Tel: 61-2-9756-2933
Fax: 61-2-9756-3120
mikropul.syd@tpg.com.au

Africa

MikroPul (Pty.) Limited
Evapark Block B
Cnr DF Malan Dr. & Judges Ave.,
Cresta, Johannesburg
SOUTH AFRICA
Tel: +27-(11)-478-0456
Fax: +27-(11)-478-0371
sales@mikropul.co.za

www.mikropul.com

MIKROPUL

A member of Beacon Industrial Group

Modular Mikro-Pulsaire Bottom Access Style

Low cost filter for applications requiring filter area between 151 and 8,246 ft² cloth area, using 8, 10, 12, or 14 ft. long bags.

Features

- Most sizes factory assembled for rapid field installation. Header pipe assembly (consisting of header pipe, right angle valves, solenoid valve, and solenoid valve enclosure) is shipped mounted, wired and completely assembled on most sizes.
- Handles high dust loadings: 100+ grains/ft³.
- Sections can be bolted or welded in the field for largest units.
- Compressed air headers are pre-assembled and prewired.
- Welded 12 gauge carbon steel construction.
- Operating pressure to 20" w.g. std. (higher levels available).
- Operating temperatures to 200°F.

Delivered with:

- Aluminum venturis
- Stainless steel bag clamps
- 1/4" 10 wire carbon steel smooth retainers
- Model 72 solid state 10-position timer
- One or two hinged housing access doors, depending on size
- One hinged access door in hopper
- Primed carbon steel surfaces
- NEMA 4 solenoid valve and timer enclosures



Common Applications

Size reduction machinery, spray dryers, separators, calciners, mixers, packaging machines, conveyors, chemical manufacturers, foundries, grinders, and many other industrial applications.

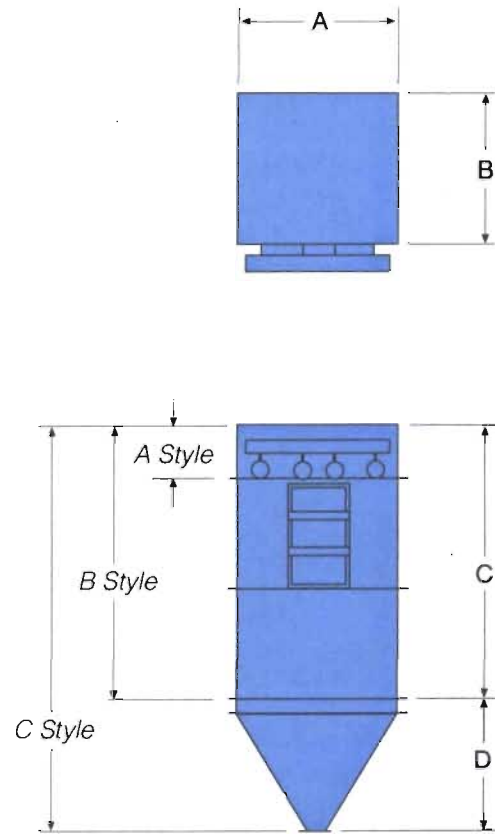
Options

- 6 in. diameter bags
- Patented Cascadair™ or Expandiffuse™ inlet designs to improve air distribution and filter performance
- Explosion proof electricals
- 500°F temperature capability
- Explosion doors
- External catwalk
- Inspection window

- Standlegs and bracing
- Ladder and cage
- 70° hopper
- Bag grid and/or man grid
- Weather hood over access door
- Pressure gauge on header
- Special interior or exterior coatings to your specification
- High quality Mikro bags in wide variety of materials and finishes
- Pulse-by-demand or diagnostic timer
- Emissions detectors
- Epoxy coat, stainless steel 10 or 20 wire retainers
- All surfaces that may come in contact with dust or product can be fabricated of stainless steel or other materials
- All surfaces that may come in contact with gas can be fabricated of stainless steel or other materials

Modular Mikro-Pulsaire Bottom Access Style

Model	# Bags	Filter Area ft ²	Weight lbs.	A in.	B in.	C in.	D in.
16S 8	16	51	1,175	30	30	105	29
16S 10		188	1,270	30	30	129	29
25S 8	25	236	1,395	36	36	105	34
25S 10		295	1,660	36	36	129	34
36S 8	36	339	1,940	48	48	105	45
36S 10		424	2,110	48	48	129	45
49S 8	49	462	2,555	54	54	111	50
49S 10		577	2,605	54	54	135	50
64S 8	64	603	2,800	60	60	111	55
64S 10		754	3,120	60	60	135	55
81S 8	81	763	3,450	66	66	111	60
81S 10		954	3,820	66	66	135	60
100S 8	100	942	3,750	72	72	111	65
100S 10		1,178	4,145	72	72	135	65
121S 8	121	1,140	4,480	78	78	111	70
121S 10		1,425	4,910	78	78	135	70
144S 8	144	1,356	5,215	84	84	117	75
144S 10		1,696	5,720	84	84	141	75
156S 8	156	1,469	7,150	92	85	132	83
156S 10		1,858	7,600	92	85	156	83
168S 8	168	1,583	7,250	99	85	132	89
168S 10		1,979	7,750	99	85	156	89
180S 8	180	1,695	7,800	106	85	132	94
180S 10		2,120	8,350	106	85	156	94
196S 8	196	1,846	7,900	99	99	132	89
196S 10		2,309	8,450	99	99	156	89
221S 8	221	2,082	8,950	120	92	132	107
221S 10		2,603	9,550	120	92	156	107
238S 8	238	2,242	9,550	120	99	138	107
238S 10		2,803	10,150	120	99	162	107
289S 8	289	2,722	10,850	120	120	138	107
289S 10		3,404	11,500	120	120	162	107
320S 8	320	3,014	12,000	141	113	138	125
320S 10		3,769	12,700	141	113	162	125
340S 8	340	3,203	12,775	141	120	138	125
340S 10		4,005	13,525	141	120	162	125
360S 8	360	3,393	13,550	141	127	144	125
360S 10		4,241	14,350	141	127	162	125
380S 8	380	3,579	14,545	141	134	144	125
380S 10		4,476	15,250	141	134	162	125
400S 8	400	3,768	15,740	141	141	144	125
400S 10		4,712	15,945	141	141	162	125
420S 8	420	3,958	17,157	148	141	144	131
420S 10		4,948	17,600	148	141	162	131
440S 8	440	4,146	18,701	155	141	144	137
440S 10		5,183	18,944	155	141	162	137
460S 8	460	4,335	20,384	162	141	144	143
460S 10		5,418	20,650	162	141	162	143
480S 8	480	4,523	22,422	169	141	144	149
480S 10		5,654	22,715	169	141	162	149
500S 8	500	4,712	24,561	176	141	144	155
500S 10		5,890	24,760	176	141	162	155



Dimensions are nominal and are for 8 ft. and 10 ft. 4½" dia. bags. 12 ft. and 14 ft. bags are also available. Other model sizes are available using 6" dia. bags.

NORTH AMERICAN LOCATIONS Visit our web site @ www.mikropul.com for other locations worldwide.

MikroPul Headquarters
4500 Chesapeake Dr.
Charlotte, NC 28216
Tel: 704-998-2600
Fax: 704-998-2601
Customer Service:
800-892-7278
info@mikropul.com

MikroPul Pittsburgh
2591 Wexford-Bayne Road, Suite 202
Sewickley, PA 15143
Tel: 724-934-3910
Fax: 724-934-3934
pittsburgh@mikropul.com

MikroPul Canada, Inc.
245 Matheson Blvd. E., Unit # 10
Mississauga, Ontario L4Z 3C9
Canada
Tel: 905-712-0722
Fax: 905-712-0027
info@ca.mikropul.com

MikroPul, S de RL de CV
Av. Lomas Verdes No. 480-302B
Col. Lomas Verdes
CP 53120 Naucalpan
Edo. de Mexico
Tel: 52-55-5343-8224
Fax: 52-55-5344-5081
info@mx.mikropul.com

MIKROPUL

A member of Beacon Industrial Group

Golder Associates Inc.

6241 NW 23rd Street, Suite 500
Gainesville, FL 32653-1500
Telephone (352) 336-5600
Fax (352) 336-6603



TRANSMITTAL LETTER

To: Mr. Michael Halpin, P.E.
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida

Date: February 7, 2006
Project No.: 063-7514

RECEIVED

FEB 08 2006

Sent by: alane

- Mail
- Air Freight
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BUREAU OF AIR REGULATION

Per: K. Kosky

Quantity	Item	Description
4	Bound copies	Cedar Bay - Application for Minor Source Air Construction Permit

Remarks:

THE FLORIDA TIMES-UNION
Jacksonville, Fl
Affidavit of Publication

Florida Times-Union

CEDAR BAY CONGENERATION PLANT
PO BOX 26324
JACKSONVILLE FL 32236

REFERENCE: 0181153
R109857 TO ISSUE AIR PERMIT

State of Florida
County of Duval

Before the undersigned authority personally appeared Tiffany Powell who on oath says she is a Legal Advertising Representative of The Florida Times-Union, a daily newspaper published in Jacksonville in Duval County, Florida; that the attached copy of advertisement is a legal ad published in The Florida Times-Union. Affiant further says that The Florida Times-Union is a newspaper published in Jacksonville, in Duval County, Florida, and that the newspaper has heretofore been continuously published in Duval County, Florida each day, has been entered as second class mail matter at the post office in Jacksonville, in Duval County, Florida for a period of one year preceeding the first publication of the attached copy of advertisement; and affiant further says that he/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 said newspaper.

PUBLISHED ON: 03/17

FILED ON: 03/17/06

Name: Tiffany Powell Title: Legal Advertising Representative
In testimony whereof, I have hereunto set my hand and affixed my official seal, the day and year aforesaid.

NOTARY:



TWILLA SHIPP
Notary Public, State of Florida
My comm. expires May 13, 2006
Comm. No. DD 117248

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection

Draft Air Permit No. 0310337-011-AC

Cedar Bay Generating Company - Cedar Bay Cogeneration Facility
Duval County, Florida

Applicant: The applicant and mailing address for this project is: Cedar Bay Generating Company, L.P., 9640 Eastport Road, Jacksonville, Florida 32218-2260. The applicant's authorized representative is Martin Kreft, General Manager.

Facility Location: The Cedar Bay Generating Company operates the existing Cedar Bay Cogeneration facility, located at 9640 Eastport Road, Jacksonville, Duval County, Florida.

Project: The applicant proposes to construct a new absorber dryer system (ADS) train 3 to process limestone as a reactant for the existing circulating fluidized beds (CFB) boilers to control sulfur dioxide (SO₂) and other acid gases. The project is not expected to result in any significant increases of pollutants. Maximum potential emissions are 1.97 tpy (PM₁₀), 3.1 tpy (SO₂), 7.0 tpy (NO_x) 9.4 tpy (CO), and 0.09 tpy (VOC). The PSD thresholds are 25/15 tpy, 40, 40, 100, and 40 respectively. The proposed line would be the primary ADS train and the existing ADS trains 1 and 2 (Emissions Units 004 and 005 respectively) will become the backup ADS trains.

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 Florida 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 850/448-0114.

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 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 fourteen (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 Department's 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 fourteen (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 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 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 how and when the petitioner received notice of the agency action or proposed action; (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; 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.