




Memorandum

Florida Department of Environmental Protection

TO: Michael G. Cooke, Director
Division of Air Resource Management

THRU:  Trina Vielhauer, Chief 
Bureau of Air Regulation

FROM: Jeff Koerner, Air Permitting North Program 

DATE: April 24, 2006

SUBJECT: Final Air Permit No. 0170004-012-AC
Progress Energy Florida, Inc.
Crystal River Power Plant, Units 4 and 5
Powder River Basin Coal Blend Trial Burn

The Final Permit for this project is attached for your approval and signature. The permit authorizes the temporary trial burn of a blend of Power River Basin (PRB) coal with bituminous coal in existing Units 4 and 5 at the Crystal River Power Plant, which is located north of Crystal River and west of U.S. Highway 19 in Citrus County, Florida. The temporary project results in a minor source air construction permit and is not subject to PSD preconstruction review.

The Department distributed an "Intent to Issue Permit" package on April 6, 2006. The applicant published the "Public Notice of Intent to Issue" in the Citrus County Chronicle on April 10, 2006. The Department received the proof of publication on April 14, 2006. No petitions for administrative hearings or extensions of time to petition for an administrative hearing were filed. As described in the attached Final Determination, the applicant provided comments on one permit condition resulting in minor revisions.

Day #90 is June 24, 2006. I recommend your approval of the attached Final Permit for this project.

Attachments

1. Article Addressed to:

Mr. Bernie Cumbie, Plant Manager
Progress Energy Florida
Crystal River Units 1&2
100 Central Avenue CN77
St. Petersburg, Florida 33701

11-10-2 J. K. H. S. 1/3/75
D. Is delivery address different from item 1? ☒ Yes
If YES, enter delivery address below: ☐ No

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 7000 1670 0013 3110 0727
(Transfer from service label)

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)

7000 1670 0013 3110 0727

Mr. Bernie Cumbie, Plant Manager

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmaster

Send to
Mr. Bernie Cumbie, Plant Manager
100 Central Avenue CN77
St. Petersburg, Florida 33701

PS Form 3800, May 2000

See Reverse for Instructions

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF FINAL PERMIT

In the Matter of an
Application for Permit by:

Progress Energy Florida, Inc.
Crystal River Power Plant
100 Central Avenue, CN77
St. Petersburg, FL 33701

Air Permit No. 0170004-012-AC
Crystal River Power Plant
Existing Units 4 and 5
PRB Coal Blend Trial Burn
Citrus County, Florida

Authorized Representative:
Mr. Bernie Cumbie, Plant Manager

Enclosed is Final Air Permit No. 0170004-012-AC, which authorizes the temporary trial burn of a blend of Power River Basin (PRB) coal with bituminous coal in existing Units 4 and 5. These units are located at the existing Crystal River Plant, which is located north of Crystal River and west of U.S. Highway 19 in Citrus County, Florida. As noted in the attached Final Determination, only minor changes and clarifications were made. This permit is issued pursuant to Chapter 403, Florida Statutes.

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

Executed in Tallahassee, Florida.

For 
Trina Vielhauer, Chief
Bureau of Air Regulation

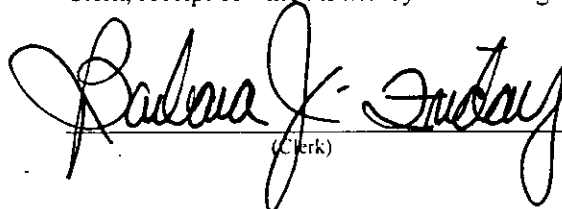
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final Permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 4/26/06 to the persons listed:

Mr. Bernie Cumbie, Progress Energy*
Mr. Dave Meyer, Progress Energy
Mr. Scott Osborne, Golder Associates Inc.
Ms. Mara Nasca, SWD Office
Mr. Jim Little, EPA Region 4 Office

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.

 4/26/06
(Clerk) (Date)

FINAL DETERMINATION

PERMITTEE

Progress Energy Florida, Inc.
Crystal River Power Plant
100 Central Avenue, CN77
St. Petersburg, FL 33701

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation, Air Permitting South Program
2600 Blair Stone Road, MS #5505
Tallahassee, Florida, 32399-2400

PROJECT

Air Permit No. 0170004-012-AC
Crystal River Power Plant

Progress Energy Florida, Inc. operates the existing Crystal River Plant, which is located north of Crystal River and west of U.S. Highway 19 in Citrus County, Florida. The Crystal River Plant is an existing coal-fired power plant (SIC No. 4922). This permit authorizes the temporary trial burn of a blend of Power River Basin (PRB) coal with bituminous coal in existing Units 4 and 5.

NOTICE AND PUBLICATION

The Department distributed an "Intent to Issue Permit" package on April 6, 2006. The applicant published the "Public Notice of Intent to Issue" in the Citrus County Chronicle on April 10, 2006. The Department received the proof of publication on April 14, 2006. No petitions for administrative hearings or extensions of time to petition for an administrative hearing were filed.

COMMENTS

No comments on the Draft Permit were received from the public, the Department's Southwest District Office, or the EPA Region 4 Office. On April 21, 2006, the applicant provided the following comments by email.

Section 3, Condition 8: The applicant indicates that only one of the boilers may be used to test the PRB blend. Therefore, the applicant requests a revision of this condition to clarify that only a boiler that will be firing the PRB blend needs to have a baseline CO emissions test. *Response:* The Department agreed and revised Condition 8 as follows:

Emissions Testing - Baseline: Each boiler that will be firing the PRB blend shall have representative baseline emission levels for carbon monoxide (CO) based on actual test data collected when firing only the bituminous coal currently in use. Such tests shall consist of at least three runs conducted at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum heat input rate allowed by the permit. Test results shall be reported in units of ppmvd @ 7% oxygen, lb/MMBtu, and lb/hour. If such representative CO emissions data does not exist at the time of the trial burn, each boiler that will be firing the PRB blend shall be tested to determine the CO emissions. Sufficient testing shall be conducted to establish baseline emissions.

CONCLUSION

The final action of the Department is to issue the permit with the minor changes described 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:

Progress Energy Florida, Inc.
Crystal River Power Plant
100 Central Avenue, CN77
St. Petersburg, FL 33701

Authorized Representative:

Mr. Bernie Cumbie, Plant Manager

Air Permit No. 0170004-012-AC
Crystal River Power Plant
Existing Units 4 and 5
PRB Coal Blend Trial Burn
Citrus County, Florida
Permit Expires: May 1, 2007

PROJECT AND LOCATION

Progress Energy Florida, Inc. operates the existing Crystal River Plant (Facility ID No. 0170004), which is located north of Crystal River and west of U.S. Highway 19 in Citrus County, Florida. The Crystal River Plant is an existing coal-fired power plant (SIC No. 4922). This permit authorizes the temporary trial burn of a blend of Power River Basin (PRB) coal with bituminous coal in existing Units 4 and 5.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to perform the proposed work 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.

CONTENTS

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

Michael G. Cooke

Michael G. Cooke, Director
Division of Air Resource Management

4-26-06

(Effective Date)

FACILITY AND PROJECT DESCRIPTION

The Crystal River Plant is an existing coal-fired power plant consisting of: four coal-fired fossil fuel steam generating units with electrostatic precipitators; two natural draft cooling towers (for Units 4 and 5); helper mechanical cooling towers (for Units 1, 2, and Nuclear Unit 3); ash-handling facilities, and re-locatable diesel-fired generators.

This permit authorizes the temporary trial burn of a blend of Power River Basin (PRB) subbituminous coal with bituminous coal in existing Units 4 and 5. Although the permit restricts the blend to no more than 30% PRB coal, a variety of other PRB coal blends will be tested. The two coals will be blended off-site and shipped to the plant as a premixed blend. The trial burn is limited to no more than 150,000 tons of PRB coal blend and must be completed within 90 days after first firing the PRB coal blend. Emissions and operational testing will be conducted during the trial burn. The project will primarily affect existing coal-fired Unit 4 (EU-004) and Unit 5 (EU-003) as well as the coal/ash handling and storage. No new equipment is necessary to conduct the trial burn.

REGULATORY CLASSIFICATION

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

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

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

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

NSPS: The existing facility operates units subject to the New Source Performance Standards of 40 CFR 60.

RELEVANT DOCUMENTS

The following relevant documents are not a part of this permit, but helped form the basis for this permitting action: the permit application and additional information received to make it complete; the draft permit package including the Department's Technical Evaluation and Preliminary Determination; publication and comments; and the Department's Final Determination. The plant currently operates under the terms and conditions of Title V air operation Permit No. 0170004-009-AV.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: All documents related to applications for permits to construct, modify, or operate emissions units 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 such documents shall be submitted to the Compliance Authority.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Air Resource Section of the Department's Southwest District Office at 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926.
3. Appendices: The following Appendices are attached as part of this permit: Appendix A (Citation Formats), Appendix B (General Conditions), and Appendix C (Common Conditions).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403 of the Florida Statutes (F.S.); Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.); and Title 40, Part 60 of the Code of Federal Regulations (CFR), adopted by reference in Rule 62-204.800, F.A.C. The terms used in this permit have specific meanings as defined in the applicable chapters of the Florida Administrative Code. 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 62-204.800, 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. Modifications: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit 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 project authorizes limited temporary use of a fuel not currently authorized to allow for the gathering of emissions and operational data. The facility shall remain in compliance with the terms and conditions of the current Title V air operation permit. As this is a temporary authorization, an application to revise the Title V air operation permit is not required. [Rules 62-4.030, 62-4.050, 62-4.070, 62-4.220, and Chapter 62-213, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Units 4 and 5

This section addresses the following emissions units as described in the Title V air operation permit.

ID No.	Brief Description
003 and 004	Fossil fuel steam generator Unit 4 (EU-004) and Unit 5 (EU-003) are identical dry bottom wall-fired boilers rated at 760 MW (6665 MMBtu/hr). Each unit is currently authorized to fire bituminous coal, a bituminous coal and bituminous coal briquette mixture, and used oil, with No. 2 fuel oil as a startup fuel, and natural gas as a startup and low-load flame stabilization fuel. Emissions from each boiler exhaust through individual stacks that are 600 feet tall. Emissions from each boiler are controlled with a high-efficiency electrostatic precipitator.

TEMPORARY AUTHORIZATION AND RESTRICTIONS

1. PRB Coal Blend: The permittee is temporarily authorized to fire a blend of Powder River Basin (PRB) coal with bituminous coal. A variety of PRB coal blends may be tested, but the blends shall not exceed 30% PRB coal by weight. PRB coal blends shall be blended off site and delivered by ship to the plant as a premixed blend. This permit does not authorize the permanent firing of PRB coal blends. [Application No. 0170004-012-AC; Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]
2. Trial Test Burn Duration: PRB coal blends shall only be fired in existing Units 4 and 5. PRB coal blends shall be fired in a similar manner to the bituminous coal currently in use at the plant. The permittee shall provide at least a one-day advance notice (by phone, fax, or email) to the Compliance Authority prior to the initial firing of PRB coal. Once any PRB coal blend is fired, the permittee shall complete the trial burn within 90 calendar days. No more than 150,000 tons of PRB coal blend shall be burned during the trial burn. In addition, the trial burn shall be completed prior to the expiration date of this permit. The permittee shall not fire PRB coal blends either before or after the authorized trial burn period. Within five calendar days of completing the trial burn, the permittee shall notify the Compliance Authority (by phone, fax, or email) that the trial burn has been completed. *{Permitting Note: The purpose of this temporary authorization is to gather operational and emissions data related to firing PRB coal blends for the evaluation of overall impacts.}* [Application No. 0170004-012-AC; Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

EMISSIONS LIMITING AND PERFORMANCE STANDARDS

3. Performance Requirements: The permittee shall provide the Compliance Authority with a preliminary schedule for conducting the trial burn and performance tests and shall update this schedule as necessary. During the trial burn, the permittee shall comply with all current terms and conditions in Title V air operation Permit No. 0170004-009-AV. If the trial burn results in operation that is not in accordance with the conditions of the Title V permit or the test protocol, the performance testing will cease as soon as possible. The permittee shall immediately notify the Compliance Authority (by phone, fax, or email) of any non-compliance issue. The trial burn shall not resume until appropriate actions have been taken to correct the problem. [Application No. 0170004-012-AC; Rule 62-4.070(3), F.A.C.]
4. Fugitive Dust: The permittee shall take reasonable precautions to prevent fugitive dust emissions from the unloading, storage, and handling of PRB coal blends. These shall be the same reasonable precautions specified in the current Title V air operation Permit No. 0170004-009-AV to prevent fugitive dust emissions from the unloading, storage, and handling of bituminous coal currently in use at the plant. [Application No. 0170004-012-AC; Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

MONITORING AND TESTING

5. Monitoring of Operations: When firing PRB coal blends, the permittee shall conduct the following monitoring.
 - a. The permittee shall record the amount and blend ratio of each PRB coal blend delivered to the plant.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Units 4 and 5

A "certificate of analysis" (including the proximate and ultimate analysis) shall be retained for each delivery of PRB coal blend.

- b. On at least three separate days, the permittee shall take samples of the PRB coal blend being fired. A proximate and ultimate analysis shall be provided for each sample taken. Samples taken on different emissions testing days may satisfy this requirement.
- c. The permittee shall maintain daily records of the boiler operations including: the PRB blend ratio fired; the fuel mass firing rate; the heat input rate; steam production, temperature and pressure; and the MW generated.
- d. The permittee shall test the ESP fly ash for resistivity. At least two samples shall be taken on separate operating days. The samples shall be taken during the tests for particulate matter and after the boiler has fired a sufficient amount of PRB coal blend to ensure that the collected sample is representative of firing PRB coal blend. Each sample shall be analyzed for resistivity. If resistivity data is not available for baseline coal firing, at least two samples shall be taken and analyzed for resistivity when firing baseline coal for purposes of comparison.
- e. The permittee shall monitor and record the electrostatic precipitator (ESP) secondary voltage and secondary current and calculate and record the total ESP secondary power input.
- f. The permittee shall continuously monitor and record opacity, nitrogen oxides (NO_x) emissions and sulfur dioxide (SO₂) emissions with existing monitoring systems.

For comparison purposes, the permittee shall identify the current corresponding baseline monitoring values (for bituminous coal firing) or collect baseline data during the trial burn period. [Rule 62-4.070(3), F.A.C.]

6. Notifications: The permittee shall provide the Compliance Authority with a written preliminary schedule for conducting any emissions tests (by letter, fax, or email). The preliminary schedule shall be updated as necessary. The permittee shall provide the Compliance Authority with at least 5 days advance notice (by phone, fax, or email) prior to conducting any emissions tests. [Rule 62-4.070(3), F.A.C.]
7. Test Methods: Any required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
1 - 4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5 or 17	Determination of Particulate Matter (PM) Emissions
6	Determination of Sulfur Dioxide (SO ₂) Emissions
7E	Determination of Nitrogen Oxide (NO _x) Emissions
9	Visual Determination of the Opacity
10	Determination of Carbon Monoxide (CO) Emissions
19	Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates (Optional F-factor method may be used to determine flow rate and gas analysis to calculate mass emissions in lieu of Methods 1-4.)

Tests shall also be conducted in accordance with the requirements specified in Appendix C of this permit. The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. [Rules 62-204.800 and 62-297.100, F.A.C.; 40 CFR 60, Appendix A]

8. Emissions Testing - Baseline: Each boiler that will be firing the PRB blend shall have representative baseline emission levels for carbon monoxide (CO) based on actual test data collected when firing only the

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. Units 4 and 5

bituminous coal currently in use. Such tests shall consist of at least three runs conducted at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum heat input rate allowed by the permit. Test results shall be reported in units of ppmvd @ 7% oxygen, lb/MMBtu, and lb/hour. If such representative CO emissions data does not exist at the time of the trial burn, each boiler that will be firing the PRB blend shall be tested to determine the CO emissions. Sufficient testing shall be conducted to establish baseline emissions. *{Permitting Note: Baseline emissions data is already available for opacity, nitrogen oxides (NOx) emissions and sulfur dioxide (SO₂) based on continuous monitoring data and for particulate matter based on annual tests.}* [Rule 62-4.070(3), F.A.C.]

9. Emissions Testing - PRB Coal Blend: Each boiler shall be tested to determine emission levels of carbon monoxide (CO) and particulate matter (PM) when firing the PRB coal blend with the highest PRB coal content fired during the trial burn. Each test shall consist of three runs conducted at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum heat input rate allowed by the permit. Particulate matter (PM) tests shall include three test runs under normal test conditions including soot blowing. Test results shall be reported in units of ppmvd @ 7% oxygen (gases), lb/MMBtu, and lb/hour. During the day of each required emissions testing, the permittee shall obtain a sample of the PRB coal blend as fired. A proximate and ultimate analysis shall be provided for each sample taken. If only one boiler fires the PRB coal blend during the trial burn, that unit shall conduct two series of tests to determine emission levels of carbon monoxide (CO) and particulate matter (PM) when firing the PRB coal blend. *{Permitting Note: Emissions levels for opacity, nitrogen oxides (NOx) emissions and sulfur dioxide (SO₂) will be determined by the continuous monitoring data collected during the trial burn.}* [Rule 62-4.070(3), F.A.C.]

RECORDS AND REPORTS

10. Emissions Tests Reports: The permittee shall prepare and submit reports for all emissions tests in accordance with the requirements specified in Appendix C of this permit. For each test run, the report shall also indicate the following: the PRB blend ratio, the fuel firing rate, the heat input rate, the average ESP secondary power input, the opacity, the NOx emission rate, and the SO₂ emission rate. [Rule 62-297.310(8), F.A.C.]
11. Trial Burn Report: Within 60 days of completing the trial burn, the permittee shall submit a final report summarizing the trial burn to the Bureau of Air Regulation and the Compliance Authority. The trial burn report shall include, but not be limited to, the following information:
- Actual schedule and overall description of the trial burn;
 - Summary of PRB blends evaluated (amounts delivered; blend ratio; and proximate/ultimate analyses);
 - Discussion of operational issues of PRB coal including: coal unloading, handling, storage and firing; fugitive dust; soot blowing; ESP performance and adjustments; and ash handling and storage;
 - Comparison of baseline operations versus operation with PRB coal blend;
 - Evaluation of current equipment compatibility with PRB coal blend;
 - Summary of continuous emissions monitoring data;
 - Summary of boiler operating data;
 - Summary of emissions test results, actual test schedule, and procedures used;
 - Comparison of baseline emissions with emissions from firing PRB coal blend (short-term and long-term); and,
 - Discussion of emissions changes as described in Appendix C of 40 CFR 60.
- Rules 62-4.070(3), 62-210.200(PTE) and 62-212.400, F.A.C.

SECTION 4. APPENDICES

CONTENTS

- Appendix A. Citation Formats
- Appendix B. General Conditions
- Appendix C. Common Conditions

SECTION 4. APPENDIX A

CITATION FORMATS

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

REFERENCES TO PREVIOUS PERMITTING ACTIONS

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

RULE CITATION FORMATS

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 B
GENERAL CONDITIONS

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

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

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

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

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

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

SECTION 4. APPENDIX B
GENERAL CONDITIONS

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

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

SECTION 4. APPENDIX C

COMMON CONDITIONS

Unless otherwise specified in the permit, the following conditions apply to all emissions units and activities at the facility.

EMISSIONS AND CONTROLS

1. Plant Operation - Problems: If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]
2. Circumvention: The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
3. General Visible Emissions: 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. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]
4. Unconfined Particulate Emissions: During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering and/or application of water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4)(c), F.A.C.]

TESTING REQUIREMENTS

5. 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.]
6. 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.]
7. 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.]
8. 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.

SECTION 4. APPENDIX C
COMMON CONDITIONS

- 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.]

9. Determination of Process Variables

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

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

10. 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.
11. Test Notification: The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. [Rule 62-297.310(7)(a)9, F.A.C.]
12. Special Compliance Tests: When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department. [Rule 62-297.310(7)(b), F.A.C.]
13. Test Reports: The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test. The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:
1. The type, location, and designation of the emissions unit tested.
 2. The facility at which the emissions unit is located.
 3. The owner or operator of the emissions unit.
 4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
 5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
 6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
 7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
 8. The date, starting time and duration of each sampling run.
 9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.

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10. The number of points sampled and configuration and location of the sampling plane.
11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
12. The type, manufacturer and configuration of the sampling equipment used.
13. Data related to the required calibration of the test equipment.
14. Data on the identification, processing and weights of all filters used.
15. Data on the types and amounts of any chemical solutions used.
16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
18. All measured and calculated data required to be determined by each applicable test procedure for each run.
19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
20. The applicable emission standard and the resulting maximum allowable emission rate for the emissions unit plus the test result in the same form and unit of measure.
21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

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

RECORDS AND REPORTS

14. 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.]