



# Florida Department of Environmental Protection

---

## Memorandum

TO: Michael G. Cooke, Division of Air Resource Management  
THRU: Trina Vielhauer, Bureau of Air Regulation   
FROM: Jeff Koerner, Air Permitting North Program   
DATE: July 29, 2005  
SUBJECT: Air Permit No. 0950203-005-AC  
Northern Star Generation Services  
Orlando Cogen Plant  
"NM" Gas Turbine Upgrade Project, Revision for Increased Heat Input

The Final Permit for this project is attached for your approval and signature, which authorizes a 4% increase in heat input rate for the recently upgraded gas turbine. The unit is in operation at the existing Orlando Cogen Plant, which is located in Orange County at 8275 Exchange Drive, Orlando, Florida. As noted in the attached Final Determination, only minor changes and clarifications were made. The project results in a minor source air construction permit and is not subject to PSD preconstruction review.

Day #90 is October 2, 2005. I recommend your approval of the attached Final Permit for this project.

Attachments

## FINAL DETERMINATION

### PERMITTEE

Northern Star Generation Services – Orlando Cogen Plant  
8275 Exchange Drive  
Orlando, FL 32809

*Authorized Representative:*

Mr. Todd Shirley, Plant Manager

### 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. 0950203-005-AC  
Orlando Cogen Limited, L.P.

This permit revises Permit No. 0950203-003-AC, which authorized the upgrade of the existing Alston 79 MW (ISO) gas turbine from a Model GT 11N1 to a Model GT 11NM and the installation of an inlet air fogging system. The revision increases the maximum heat input rate from 856.9 to 890 MMBtu/hr at ISO conditions. The equipment is installed at the existing Orlando Cogen Plant, which is located in Orange County at 8275 Exchange Drive, Orlando, Florida.

### NOTICE AND PUBLICATION

The Department distributed an "Intent to Issue Permit" package on July 8, 2005. The applicant published the "Public Notice of Intent to Issue" in the Orlando Sentinel on July 14, 2005. The Department received the proof of publication on July 20, 2005. 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 Central District Office, EPA Region 4, or the applicant. The Orange County Environmental Protection Division provided the following comment:

"On page 4 of the technical evaluation, Table 3A appears to have a typographical error in the net increase of CO emissions. The 30.25 TPY CO number should be 0.75 TPY CO."

*Response:* The Department agrees. The typographical error was corrected and will appear with the revised Technical Evaluation and Preliminary Determination when posted.

### CONCLUSION

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee <i>Greg Johnson</i>
1. Article Addressed to:  <div style="border: 1px solid black; padding: 5px;">             Mr. Todd Shirley, Plant Manager              Northern Star Generation Services -              Orlando Cogen Plant              8275 Exchange Drive              Orlando, Florida 32809           </div>	B. Received by (Printed Name)  C. Date of Delivery <i>8/5</i>  D. Is delivery address different from item 1? <input checked="" type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
2. Article Number (Transfer from service label)	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.  4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
<p style="text-align: center;">7001 0320 0001 3692 2442</p>	
<p>PS Form 3811, August 2001      Domestic Return Receipt      102595-02-M-1540</p>	

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

OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Mr. Todd Shirley, Plant Manager  
 Northern Star Generation Services -  
 Orlando Cogen Plant  
 8275 Exchange Drive  
 Orlando, Florida 32809

PS Form 3800, January 2001

See Reverse for Instructions

2442 2692 1000 0320 7001

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF FINAL PERMIT

In the Matter of an  
Application for Permit by:

Northern Star Generation Services – Orlando Cogen Plant  
8275 Exchange Drive  
Orlando, FL 32809

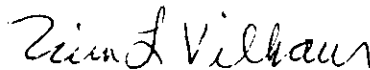
Orlando Cogen Limited, L.P.  
Air Permit No. 0950203-005-AC  
Facility ID No. 0950203  
Project: NM GT Upgrade, Revision

*Authorized Representative:*  
Mr. Todd Shirley, Plant Manager

Enclosed is Final Air Permit No. 0950203-005-AC, which revises the gas turbine Model GT 11NM upgrade project to increase the maximum heat input rate from 856.9 to 890 MMBtu/hr at ISO conditions. The equipment is installed at the existing Orlando Cogen Plant, which is located in Orange County at 8275 Exchange Drive, Orlando, 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.



Trina Vielhauer, Chief  
Bureau of Air Regulation

CERTIFICATE OF SERVICE

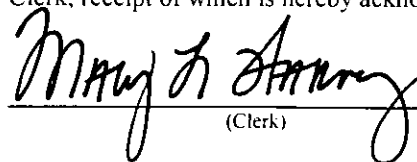
The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final permit) was sent by certified mail (\*) and copies were mailed by U.S. Mail before the close of business on 8/3/05 to the persons listed:

Mr. Todd Shirley, Orlando Cogen\*  
Mr. Scott Wesson, PBS&J  
Mr. Len Kozlov, Central District Office

Mr. John Kasper, Orange County EPD  
Mr. Gregg Worley, 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.

  
(Clerk)

8/3/05  
(Date)



# Department of Environmental Protection

Jeb Bush  
Governor

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

Colleen M. Castille  
Secretary

## PERMITTEE:

Northern Star Generation Services – Orlando Cogen Plant  
8275 Exchange Drive  
Orlando, FL 32809

*Authorized Representative:*

Mr. Todd Shirley, Plant Manager

Orlando Cogen Limited, L.P. Air Permit No. 0950203-005-AC Facility ID No. 0950203 SIC No. 4931 Permit Expires: July 1, 2008
---

## PROJECT AND LOCATION

This permit authorizes the upgrade of the existing Alston 79 MW (ISO) gas turbine from a Model GT 11N1 to a Model GT 11NM and the installation of an inlet air fogging system. This is a revision of Permit No. 0950203-003-AC to increase the maximum permitted heat input rate. The unit is in operation at the existing Orlando Cogen Plant, which is located in Orange County at 8275 Exchange Drive, Orlando, Florida. The UTM coordinates are Zone 17, 459.5 km East, and 3146.1 km North.

## 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.) and Title 40, Part 60 of the Code of Federal Regulations. 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.

## 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)

"More Protection, Less Process"

Printed on recycled paper.

## SECTION 1. GENERAL INFORMATION

### FACILITY AND PROJECT DESCRIPTION

The existing facility consists of a 129 MW combined cycle gas turbine system. This project will only affect the following existing emissions unit.

ID	Emission Unit Description
001	The existing 79 MW (ISO) Alstom Model GT 11N1 gas turbine upgraded to a Model NM unit.

### REGULATORY CLASSIFICATION

Title III: Based on the Title V permit, the facility is not a major source of hazardous air pollutants (HAP).

Title IV: The gas turbine is subject to the acid rain provisions of the Clean Air Act.

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: The gas turbine is subject to the New Source Performance Standards in Subpart GG of 40 CFR 60.

### RELEVANT DOCUMENTS

The permit application and additional information received to make it complete are not a part of this permit; however, the information is specifically related to this permitting action and is on file with the Department. This minor source air construction permit replaces Permit No. 0950203-003-AC and supplements original Permit No. PSD-FL-184. Unless otherwise specified, the gas turbine remains subject the applicable terms and conditions of original Permit No. PSD-FL-184 issued in 1992, as modified and amended.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: All documents related to applications for permits to construct, modify, or operate emissions units regulated by this permit 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.
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 Orange County Environmental Protection Division, 800 Mercy Drive, Orlando, FL 32808.
3. Appendices: The following Appendices are attached as part of this permit: Appendix CF (Citation Format); Appendix GC (General Conditions); and Appendix SC (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: The permittee shall notify the Compliance Authority upon commencement of construction. 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: The permittee shall apply for a Title V operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after completing the gas turbine upgrade to an "NM" model and commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. *{Permitting Note: The fogging project does not result in any additional permit requirements other than notification of the construction schedule. Therefore, the fogging project shall be included with the Title V revision application submitted for the gas turbine upgrade project or at the next re-opening of the Title V permit for some other cause.}* [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

**SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS**

**A. 79 MW Alstom Gas Turbine (EU-001)**

This section of the permit addresses the following emissions unit.

ID	Emission Unit Description
001	79 MW (ISO) Alstom Model GT 11NM gas turbine

**ADMINISTRATIVE REQUIREMENTS**

- Previous Permit Conditions: Unless otherwise specified, issuance of this permit does not alter any requirements established in any previously issued air construction or Title V operation permits for the existing gas turbine. Except as specified below, the conditions of this minor air construction permit supplement, and are in addition to, all current valid requirements. [Rule 62-210.300, F.A.C.]

**PROPOSED PROJECTS**

- Gas Turbine Upgrade: The permittee is authorized to upgrade the existing 79 MW (ISO) Alstom Model GT 11N1 gas turbine to a Model NM unit by the following physical changes: increasing the channel height, equalizing the turbine stage loading, using airfoils with improved aerodynamics, implementing advanced blade cooling technology, and improving the seals to reduce air leakage. The upgrade is designed to improve the thermal efficiency of the unit. [Application]
- Fogging System: The permittee is authorized to install a high-pressure fogging system consisting of nozzles, piping, pumps, control system, etc. The fogging system will be designed to provide evaporative cooling of the compressor inlet air stream to produce additional power. [Application]
- Notifications: Within one week of beginning construction on each project, the permittee shall provide notification that construction has commenced including a schedule for completing the project. The permittee shall also provide notice if a project will not be constructed. The schedule shall be updated for any major changes as necessary. *{Permitting Note: The projects are likely to be constructed in separate phases over two different outages.}* [Rule 6-4.070(3), F.A.C.]

**REVISIONS TO PERMIT NO. PSD-FL-184**

- Revised Conditions: The following revised conditions replace the original conditions in Permit No. PSD-FL-184. The original numbering is preserved for tracking purposes. Deletions are shown as ~~strikethroughs~~ and additions are shown with double underlines.
  - The permitted materials and utilization rates for the combined cycle gas turbine shall not exceed the values as follows:
    - Maximum heat input rate to the CT shall not exceed ~~856.9~~ 890 MMBtu/hr at ISO conditions.
    - Maximum heat input rate to the HRSG-DB shall not exceed 122.0 MMBtu/hr; 450,000 MMBtu/yr.
  - The maximum allowable emissions from this facility shall not exceed the emission rates listed in Table 1.

Table 1

Pollutant	Source	Allowable Emission Standard/Limitation
NOx	CT	15 ppmvd @ 15% O <sub>2</sub> (57.4 lb/hr; 251.4 TPY)
	DB	0.1 lb/MMBtu
	CT/DB	24-hr rolling average
CO	CT	10 ppmvd (22.3 lbs/hr; 92.1 TPY)
	DB	0.1 lb/MMBtu (12.2 lbs/hr; 22.5 TPY)
PM/PM <sub>10</sub>	CT	0.01 lb/MMBtu (9.0 lbs/hr; 39.4 TPY)
	DB	0.01 lb/MMBtu (1.2 lbs/hr; 2.2 TPY)



## SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

### A. 79 MW Alstom Gas Turbine (EU-001)

VOC	CT	3.0 lbs/hr; 13.0 TPY
	DB	3.7 lbs/hr; 6.8 TPY
VE	CT/DB	≤ 10% opacity

#### NOTE:

1. CT: combustion turbine  
DB: duct burner
2. Natural gas usage only in the CT and DB.
3. Hours of operation:
  - a. CT: 8760 hrs/yr
  - b. DB: 3688 hrs/yr (at a maximum rate of  $122.0 \times 10^6$  Btu/hr)
4. Maximum heat input:
  - a. CT: ~~856.9~~ 890  $\times 10^6$  Btu/hr
  - b. DB: 3688 hrs/yr (at a maximum rate of  $122.0 \times 10^6$  Btu/hr)
5. DB operation planned when ambient temperature is greater than 59° F.

The gas turbine remains subject to all other applicable conditions of Permit No. PSD-FL-184.

[Application No. 0950203-005-AC]

#### TESTING REQUIREMENTS

6. Initial Compliance Tests: The gas turbine shall be tested to demonstrate initial compliance with the existing emissions standards for carbon monoxide specified in the Title V permit. An initial test shall be conducted no later than 60 days after issuance of this permit. The tests shall consist of at least three 1-hour test runs conducted in accordance with EPA Method 10 and EPA Methods 1-4 as necessary. For each CO test run, nitrogen oxides (NO<sub>x</sub>) emissions data collected from the installed CEMS shall also be reported. Tests shall be conducted within 90% of the new maximum heat input rate given actual ambient conditions. A satisfactory compliance test conducted after the NM upgrade, but before issuance of this final permit may be used to satisfy the initial test requirement. Other notification, testing, and reporting requirements are specified in Appendix C. *{Permitting Note: No initial tests are required after the installation of the inlet fogging system.}* [Rule 62-297.310(7)(a)1, F.A.C.]

#### ANNUAL REPORTING

7. CO/NO<sub>x</sub> Emissions Reports: For a period of five years following completion of the gas turbine upgrade (including heat input increase), the permittee shall submit an annual report demonstrating that the project did not result in a significant increase in CO and NO<sub>x</sub> emissions. The first report shall be submitted for the first full calendar year after completing the gas turbine upgrade. Reports shall be submitted by March 1<sup>st</sup> of each year and may be submitted along with the required Annual Operating Report. When calculating any increase in emissions resulting from the project, the permittee shall exclude that portion of the unit's emissions following the change that could have been accommodated during the representative baseline period and is attributable to an increase in projected capacity utilization at the unit that is unrelated to the project, including any increased utilization due to the rate of electricity demand growth for the utility system as a whole. The baseline emissions for operation prior to the project are 3 tons per year of CO and 232 tons per year of NO<sub>x</sub>. *{Permitting Note: These reports are required only after completion of the gas turbine upgrade. The fogging project does not invoke any additional reporting requirements.}* [Rule 62-210.200(11)(d), F.A.C. and 40 C.F.R.52.21(b)(33)]

**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**

---

*{Permitting Note: 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. **Excess Emissions Prohibited:** Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]
4. **Excess Emissions - Notification:** In case of excess emissions resulting from malfunctions, the permittee shall notify the Department or the appropriate Local Program in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]
5. **Objectionable Odor Prohibited:** No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) and 62-210.200(203), F.A.C.]
6. **General Visible Emissions:** 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.]
7. **Unconfined Particulate Emissions:** During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering and/or application of water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4)(c), F.A.C.]

**TESTING REQUIREMENTS**

8. **Required Number of Test Runs:** For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured; provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five-day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five-day period allowed for the test, the Secretary or his or her designee may accept the results of two complete runs as proof of compliance, provided that the arithmetic mean of the two complete runs is at least 20% below the allowable emission limiting standard. [Rule 62-297.310(1), F.A.C.]
9. **Operating Rate During Testing:** Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days 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.]

## SECTION 4. APPENDIX C

### COMMON CONDITIONS

10. Calculation of Emission Rate: For each emissions performance test, the indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]
11. Test Procedures: Tests shall be conducted in accordance with all applicable requirements of Chapter 62-297, F.A.C.
- 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.
  - 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.
  - Calibration of Sampling Equipment*. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1, F.A.C.
- [Rule 62-297.310(4), F.A.C.]
12. Determination of Process Variables
- 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.
  - Accuracy of Equipment*. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.
- [Rule 62-297.310(5), F.A.C.]
13. Sampling Facilities: The permittee shall install permanent stack sampling ports and provide sampling facilities that meet the requirements of Rule 62-297.310(6), F.A.C.
14. Test Notification: The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. [Rule 62-297.310(7)(a)9, F.A.C.]
15. Special Compliance Tests: When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department. [Rule 62-297.310(7)(b), F.A.C.]
16. Test Reports: The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test. The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:
1. The type, location, and designation of the emissions unit tested.
  2. The facility at which the emissions unit is located.
  3. The owner or operator of the emissions unit.

**SECTION 4. APPENDIX C**  
**COMMON CONDITIONS**

---

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

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

**RECORDS AND REPORTS**

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