

Golder Associates Inc.
5100 West Lemon Street
Suite 114
Tampa, FL USA 33609
Telephone: (813) 287-1717
Fax: (813) 287-1716



August 11, 2008

Mr. Jonathon Holtom
FDEP/DARM
Division of Air Resource Management
2600 Blair Stone Road, MS 5500
Tallahassee, FL 32399-2400

RECEIVED

Our Ref.: 08389568

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AUG 12 2008

AUG 20 2008

BUREAU OF AIR REGULATION

DEP Central Dist.

**Re: LAKE COGENERATION FACILITY; REQUEST FOR AIR CONSTRUCTION
PERMIT AND TITLE V REVISIONS
FACILITY NO. 0694801**

Dear Mr. Holtom:

The enclosed air quality permit application package is submitted by Caithness Generation Services on behalf of Lake Cogeneration, Limited, L.P. ("Lake CoGen"), owners of a 110.5 MW (nominal) natural gas-fired cogeneration power plant in Umatilla, Florida. This facility operates under the authority of Title V Air Operation Permit Number 0694801-007-AV, which has an effective date of December 31, 2007. This Title V permit expires on December 31, 2012, and a renewal application is due by July 3, 2012. In addition, Air Construction Permit No. 0694801-008-AC was issued on June 11, 2007, for a SPRINT upgrade. This permit expires on December 31, 2008. Therefore, the purpose of this application package is to request the following:

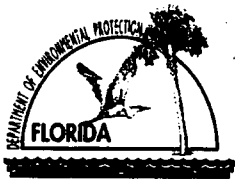
- Incorporate the current construction permit SPRINT modification (0694801-008-AC) into the revised TV permit;
- Incorporate the newly installed CAIR program NOx CEMs as the designated method of NOx compliance, thus eliminating the need for a CAM Plan;
- Request the maximum heat input rate for firing with natural gas to be increased from 435 MMBtu/hr/CT to 450 MMBtu/hr/CT, based on better firing efficiency with the SPRINT upgrade and the reasonable assurance provided by the CEMs installation; and
- Eliminate the need for annual NOx source test and source test requirement resulting from use of temporary lease components during CT repair and/or service periods. The CEMs RATA testing would be conducted in lieu of annual NOx testing.

Lake CoGen appreciates the Department's timely consideration of this concurrent processing request for a minor source air construction permit and TV revisions. If you have any questions, please contact Tom Grace of Caithness Generation Services at (917) 472-4593 or me at (813) 287-1717.

Sincerely,

Scott Osbourn, P.E.
Enclosure

cc: Tom Grace, Caithness Generation Services
James Miller, Plant Manager, Lake Cogen



Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

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AUG 12 2008

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- To establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

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

To ensure accuracy, please see form instructions.

Identification of Facility

| | |
|---|--|
| 1. Facility Owner/Company Name: Lake Cogeneration Ltd. | |
| 2. Site Name: Lake Cogeneration | |
| 3. Facility Identification Number: 0694801 | |
| 4. Facility Location... Street Address or Other Locator: 39001 Golden Gem Dr. City: Umatilla County: Lake Zip Code: 32784 | |
| 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: Thomas Grace | |
| 2. Application Contact Mailing Address... Organization/Firm: Caithness Generation Services Street Address: 565 Fifth Ave., 29th Floor City: New York State: NY Zip Code: 10017 | |
| 3. Application Contact Telephone Numbers... Telephone: (917) 472 - 4593 ext. Fax: (732) 817 - 0101 | |
| 4. Application Contact E-mail Address: tgrace@caithnessenergy.com | |

Application Processing Information (DEP Use)

| | |
|--|-----------------------------------|
| 1. Date of Receipt of Application: 8/12/08 | 3. PSD Number (if applicable): |
| 2. Project Number(s): 0694801-010-AL 0694801-011-AL | 4. Siting Number (if applicable): |

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AUG 12 2008

APPLICATION INFORMATION

Purpose of Application

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

Air Construction Permit

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

Air Operation Permit

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

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

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

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

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

Application Comment

The purpose for this permit revision is to request the following:

- **Incorporate the current construction permit SPRINT modification (0694801-008-AC) into the revised TV permit;**
- **Incorporate the newly installed CAIR program NOx CEMs as the designated method of NOx compliance;**
- **Request the maximum heat input rate for firing with natural gas to be increased from 435 MMBtu/hr/CT to 450 MMBtu/hr/CT, based on better firing efficiency with the SPRINT upgrade and the reasonable assurance provided by the CEMs installation; and**
- **Eliminate the need for annual NOx source test and source test requirement resulting from use of temporary lease components during CT repair and/or service periods. The CEMs RATA testing would be conducted in lieu of annual NOx testing.**

APPLICATION INFORMATION

Scope of Application

| Emissions Unit ID Number | Description of Emissions Unit | Air Permit Type | Air Permit Processing Fee |
|--------------------------|---|-----------------|---------------------------|
| 003 004 | Two GE LM-6000 Combustion Turbines (CTs), each with HRSG and Duct Burner (DB) | AF2C | 0 |
| 002 | Facility-wide Fugitive and Vent Emissions | | 0 |
| | | | |
| | | | |
| | See Attachment LC-A1-AC for specifics | | |
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Application Processing Fee

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

APPLICATION INFORMATION

Owner/Authorized Representative Statement

Not Applicable

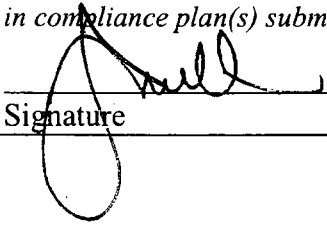
Complete if applying for an air construction permit or an initial FESOP.

| |
|--|
| 1. Owner/Authorized Representative Name : |
| 2. Owner/Authorized Representative Mailing Address... Organization/Firm: Street Address: City: State: Zip Code: |
| 3. Owner/Authorized Representative Telephone Numbers... Telephone: () - ext. Fax: () - |
| 4. Owner/Authorized Representative E-mail Address: |
| 5. Owner/Authorized Representative Statement: <i>I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.</i> _____ Signature _____ Date |

APPLICATION INFORMATION

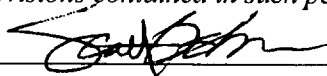
Application Responsible Official Certification

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

| |
|--|
| 1. Application Responsible Official Name: James Miller, Plant Manager |
| 2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input checked="" 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, CAIR source, or Hg Budget source. |
| 3. Application Responsible Official Mailing Address... Organization/Firm: Lake Cogeneration Ltd. Street Address: 39001 Golden Gem Dr. City: Umatilla State: Florida Zip Code: 32784 |
| 4. Application Responsible Official Telephone Numbers... Telephone: (352) 669-3288 ext. Fax: (352) 669-3188 |
| 5. Application Responsible Official E-mail Address: jmiller@caithnessenergy.com |
| 6. Application Responsible Official Certification: <i>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.</i>  Signature 8/7/08 Date |

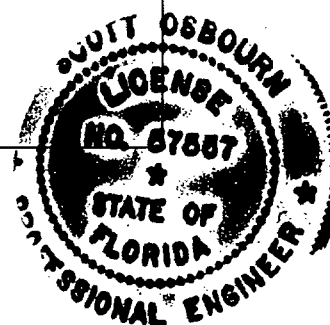
APPLICATION INFORMATION

Professional Engineer Certification

| |
|--|
| 1. Professional Engineer Name: Scott H. Osbourn Registration Number: 57557 |
| 2. Professional Engineer Mailing Address... Organization/Firm: Golder Associates Inc.** Street Address: 5100 Lemon Street, Suite 114 City: Tampa State: FL Zip Code: 33609 |
| 3. Professional Engineer Telephone Numbers... Telephone: (813) 287 - 1717 ext. Fax: (813) 287 - 1716 |
| 4. Professional Engineer E-mail Address: sosbourn@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 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 checked="" 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> <div style="display: flex; justify-content: space-between;"><div>Signature  (seal)</div><div>Date <u>8/8/23</u></div></div> |

* 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) 434.00 North (km) 3198.80 | | 2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 28° 55' 02" Longitude (DD/MM/SS) 81° 40' 37" | |
| 3. Governmental Facility Code: 0 | 4. Facility Status Code: A | 5. Facility Major Group SIC Code: 49 | 6. Facility SIC(s): 4931 |
| 7. Facility Comment : Lake Cogeneration facility consists of two GE LM-6000 combustion turbine units (CTs), each unit equipped with an inlet chiller and a supplementary fired duct burner (DB) and exhausting through Heat Recovery Steam Generator (HRSG) stacks. The CTs have dual fuel (natural gas and distillate fuel) capability. Both CTs recently underwent SPRINT upgrade for enhanced efficiency per 0694801-008-AC. | | | |

Facility Contact

| | | | |
|---|--|--|--|
| 1. Facility Contact Name: Thomas Grace, Mgr. E,H&S | | | |
| 2. Facility Contact Mailing Address... Organization/Firm: Lake Cogeneration L.P., c/o Caithness Street Address: 565 Fifth Ave., 29th Floor City: New York State: NY Zip Code: 10017 | | | |
| 3. Facility Contact Telephone Numbers: Telephone: (917) 472 - 4593 ext. Fax: (732) 817 - 0101 | | | |
| 4. Facility Contact E-mail Address: tgrace@caithnessenergy.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: James Miller, Plant Manager | | | |
| 2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Lake Cogeneration Ltd. Street Address: 39001 Golden Gem Dr. City: Umatilla State: FL Zip Code: 32784 | | | |
| 3. Facility Primary Responsible Official Telephone Numbers... Telephone: (352) 669 - 3288 ext. Fax: (352) 669 - 3188 | | | |
| 4. Facility Primary Responsible Official E-mail Address: jmiller@caithnessenergy.com | | | |

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 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: Currently, the NSPS for stationary Combustion Turbines (40 CFR 60 Subpart GG) applies, as well as Subpart Dc for each of the Duct Burners. 40 CFR 60 Subpart Kb applies to the fuel oil storage tank. However, as a result of the requested heat input increase, the CT and DB units will now be subject to NSPS Subpart KKKK. | |

FACILITY INFORMATION

List of Pollutants Emitted by Facility

| 1. Pollutant Emitted | 2. Pollutant Classification | 3. Emissions Cap [Y or N]? |
|--|-----------------------------|-------------------------------|
| NOx – Nitrogen Oxides | A | Y |
| CO – Carbon Monoxide | A | Y |
| PM – Particulate Matter - Total | B | N |
| PM₁₀ – Particulate Matter, 10 micron | B | N |
| SO₂ – Sulfur Dioxide | B | N |
| VOC – Volatile Organic Compounds | B | N |
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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's Under Cap (if not all units) | 4. Hourly Cap (lb/hr) | 5. Annual Cap (ton/yr) | 6. Basis for Emissions Cap |
|---------------------------------------|--|---|-----------------------|------------------------|----------------------------|
| NOx | | EU-003 & 004 | | 385 | ESCPD |
| CO | | EU-003 & 004 | | 336 | ESCPD |
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7. Facility-Wide or Multi-Unit Emissions Cap Comment:

EU-003 and EU-004, including the DB units.

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>11/27/06</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>11/27/06</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>11/27/06</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, Modification, or Plantwide Applicability Limit (PAL): <input checked="" type="checkbox"/> Attached, Document ID: <u>LC-FI</u> |
| 3. Rule Applicability Analysis: <input checked="" type="checkbox"/> Attached, Document ID: <u>LC-FI</u> |
| 4. List of Exempt Emissions Units: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (no exempt units at facility) |
| 5. Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable |
| 6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable |
| 7. Source Impact Analysis (Rule 62-212.400(5), 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(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable |
| 9. Additional Impact Analyses (Rules 62-212.400(8) 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

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications

- | |
|--|
| 1. List of Exempt Emissions Units: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" 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 checked="" type="checkbox"/> Attached, Document ID: LC-FI-C1 <input 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 checked="" type="checkbox"/> Attached, Document ID: LC-FI-C2 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 Onsite 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 checked="" type="checkbox"/> Attached, Document ID: LC-FI-C3 <input type="checkbox"/> Not Applicable |

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program

1. Acid Rain Program Forms:

Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):

☐ Attached, Document ID: _____ ☐ Previously Submitted, Date: _____

☒ Not Applicable (not an Acid Rain source)

Phase II NO_x Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):

☐ Attached, Document ID: _____ ☐ Previously Submitted, Date: _____

☒ Not Applicable

New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):

☐ Attached, Document ID: _____ ☐ Previously Submitted, Date: _____

☒ Not Applicable

2. CAIR Part (DEP Form No. 62-210.900(1)(b)):

☐ Attached, Document ID: _____ ☒ Previously Submitted, Date: 5/16/08

☐ Not Applicable (not a CAIR source)

3. Hg Budget Part (DEP Form No. 62-210.900(1)(c)):

☐ Attached, Document ID: _____ ☐ Previously Submitted, Date: _____

☒ Not Applicable (not a Hg Budget unit)

Additional Requirements Comment

It should be noted that the CAIR rule was recently vacated by the DC Circuit Court of Appeals. Therefore, all compliance obligations under this rule have been suspended, until further notice. However, as requested in this application for TV revisions, the applicant has chosen to use the NO_x CEMS, which were required to be installed under the CAIR program, for compliance with the allowable NO_x limits. The NO_x CEMS will determine emissions on a 30-day rolling average basis for comparison to the standard. Utilizing this method of compliance, the current TV CAM Plan is no longer required and is requested to be deleted.

EMISSIONS UNIT INFORMATION

Section [1] of [2]

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 an initial, revised or renewal 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. 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 an 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 or 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. A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit addressed in this application that is subject to air construction permitting and for each such emissions unit that is a regulated or unregulated unit for purposes of Title V permitting. (An emissions unit may be exempt from air construction permitting but still be classified as an unregulated unit for Title V purposes.) Emissions units classified as insignificant for Title V purposes 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] of [2]

2 CTs each with HRSG and DB

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:

Two SPRINT modified GE LM-6000 Combustion Turbines (CTs), each with HRSG and Duct Burner. SPRINT modifications addressed in Air Construction Permit No. 0694801-008-AC.

3. Emissions Unit Identification Number: **EU 003 and EU 004**

4. Emissions Unit
Status Code:

A

5. Commence
Construction
Date:

6. Initial Startup
Date:

1 July 1993

7. Emissions Unit
Major Group
SIC Code:

49

8. Federal Program Applicability: (Check all that apply)

- ☐ Acid Rain Unit
- ☒ CAIR Unit
- ☐ Hg Budget Unit

9. Package Unit: **GE LM-6000 CTs w/ Zurn HRSG**

Manufacturer:

Model Number:

10. Generator Nameplate Rating: **Each CT is 42 MW at 51°F (nameplate), per note below, SPRINT upgrade has increased generation to approximately 52 MW/hr/CT.**

11. Emissions Unit Comment:

Each CT's exhaust goes through a Heat Recovery Steam Generator (HRSG). The two HRSGs service a steam turbine generator rated at 26.5 MW and furnishes steam to an orange processing facility and/or water distillation unit. Supplemental heat to the system is supplied via Duct Burner firing, when needed. The SPRINT upgrade installed in 2007 per 0694801-008-AC increased power production generation output from approximately 42 MW/hr/CT to 52 MW/hr/CT. In addition, as required by the CAIR program, each unit is equipped with a certified CEMs for NOx monitoring and reporting.

EMISSIONS UNIT INFORMATION

Section [1] of [2]

2 CTs each with HRSG and DB

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:

Water injection to control NOx emissions.

2. Control Device or Method Code: 028

Emissions Unit Control Equipment/Method: Control ____ of ____

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ____ of ____

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ____ of ____

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [1] of [2]

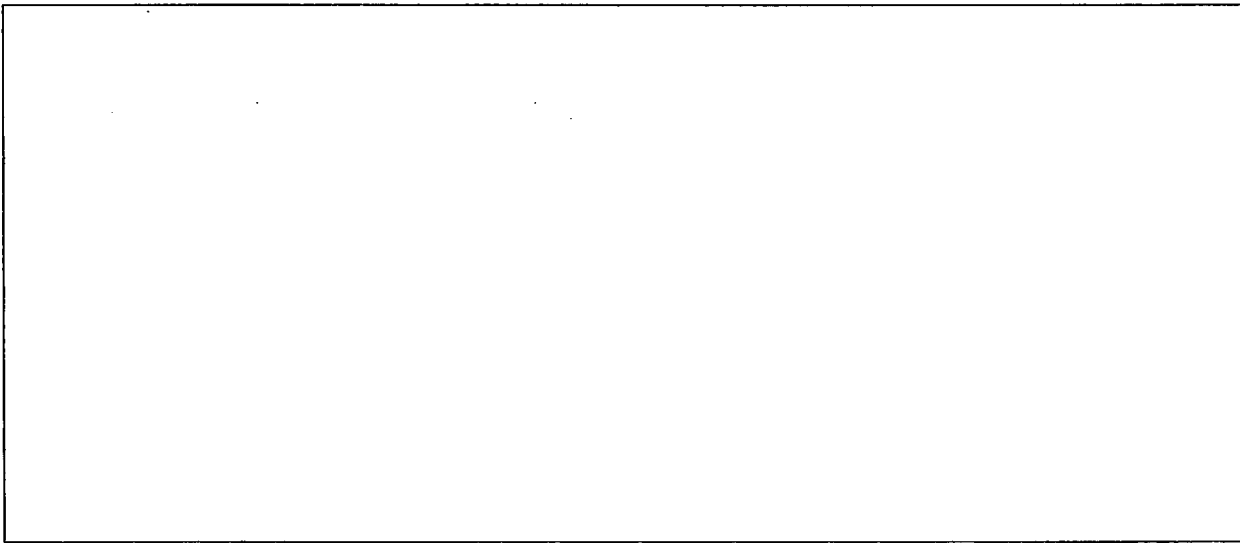
2 CTs each with HRSG and DB

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

| |
|---|
| 1. Maximum Process or Throughput Rate: |
| 2. Maximum Production Rate: |
| 3. Maximum Heat Input Rate: million Btu/hr 450 (LHV @ 51°F) per CT |
| 4. Maximum Incineration Rate: pounds/hr tons/day |
| 5. Requested Maximum Operating Schedule: <div style="display: flex; justify-content: space-between;"><div>24 hours/day 52 weeks/year</div><div>7 days/week 8,760 hours/year</div></div> |
| 6. Operating Capacity/Schedule Comment: <div style="margin-left: 40px;">1. Incorporation of Construction Permit 0694801-008-AC SPRINT upgrade includes the following: When firing natural gas, the maximum heat input was increased from 423 MMBtu/hr to 435 MMBtu/hr (LHV @ 51°F) with the SPRINT upgrade. Maximum heat input on fuel oil firing remains 424 MMBTU/hr/CT (LHV @ 51°F). The maximum heat input for the Duct Burners remains 90 MMBTU/hr/DB (HHV). The DBs only fire natural gas. 2. As part of this revision submittal (therefore, the requested concurrent processing of an air construction permit application), it is requested that the maximum heat input, when firing on natural gas in either CT, be increased from 435 MMBtu/hr to 450 MMBtu/hr (LHV @ 51°F). Maximum heat input on fuel oil firing remains 424 MMBTU/hr/CT (LHV @ 51°F). The maximum heat input for the Duct Burners remains 90 MMBTU/hr/DB (HHV). The DBs only fire natural gas.</div> The emissions assessment and regulatory applicability analysis for this request is provided in Attachment LC-FI of this application package. |



EMISSIONS UNIT INFORMATION

Section [1] of [2]

2 CTs each with HRSG and DB**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: | | 2. Emission Point Type Code: 3 | |
| 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Unit 1 stack (EU-003); Unit 2 stack (EU-004) | | | |
| 4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA | | | |
| 5. Discharge Type Code: V | 6. Stack Height: 100 feet | 7. Exit Diameter: 11 feet | |
| 8. Exit Temperature: 250 °F | 9. Actual Volumetric Flow Rate: 320,253 acfm | 10. Water Vapor: % | |
| 11. Maximum Dry Standard Flow Rate: dscfm | | 12. Nonstack Emission Point Height: Feet | |
| 13. Emission Point UTM Coordinates... Zone: East (km): North (km): | | 14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS) | |
| 15. Emission Point Comment: Data reflects each individual CT unit. Emission point calculations are based upon baseload conditions at 51°F for natural gas firing. | | | |

EMISSIONS UNIT INFORMATION

Section [1] of [2]

2 CTs each with HRSG and DB

D. SEGMENT (PROCESS/FUEL) INFORMATION**Segment Description and Rate:** Segment **1** of **2**

| | | |
|--|---|---|
| 1. Segment Description (Process/Fuel Type): Internal Combustion Engines Electric Generation Natural Gas Combustion Turbine | | |
| 2. Source Classification Code (SCC): 2-01-002-01 | | 3. SCC Units: Million cubic feet burned |
| 4. Maximum Hourly Rate: 0.433 | 5. Maximum Annual Rate: 3,793 | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: Pipeline quality or less | 8. Maximum % Ash: 0 | 9. Million Btu per SCC Unit: 1,040 |
| 10. Segment Comment: Max. Annual Rate: 3,793. Maximum rate at 51°F with heat content (MMBtu/SCC) based upon LHV. Maximum percent sulfur: 2 grain/100 scf. DB rates are 90 MMBtu/hr and 525,000 MMBtu/yr each (~5,833 hr/yr/DB of operation). | | |

Segment Description and Rate: Segment **2** of **2**

| | | |
|---|--|---|
| 1. Segment Description (Process/Fuel Type): Internal Combustion Engine, Industrial, Distillate Oil (Diesel) Combustion Turbine; Cogeneration. | | |
| 2. Source Classification Code (SCC): 2-02-001-03 | | 3. SCC Units: Thousand gallons burned |
| 4. Maximum Hourly Rate: 2.921 | 5. Maximum Annual Rate: 701.05 | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: 0.05* | 8. Maximum % Ash: 0 | 9. Million Btu per SCC Unit: 130 |
| 10. Segment Comment: Under NSPS Subpart KKKK, the maximum fuel oil sulfur content is 0.05%. Maximum hourly and annual fuel usage based upon a permit limitation of 2,921 gal/hr/CT and 701,050 gal/yr/CT. The DBs do not fire fuel oil. | | |

EMISSIONS UNIT INFORMATION

Section [1] of [2]

2 CTs each with HRSG and DB

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 |
|------------------------|--------------------------------|----------------------------------|------------------------------|
| NOx | 028 | | EL |
| CO | | | EL |
| PM | | | EL |
| PM₁₀ | | | EL |
| VOC | | | EL |
| SO₂ | | | EL |
| SAM | | | EL |
| | | | |
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*Hg, Be and Pb concentration monitoring from the combustion of fuel oil are requested to be deleted due to the restricted amount of oil permitted to be fired by this facility.

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

| | | | |
|--|--|---|--|
| 1. Pollutant Emitted: NO_x | | 2. Total Percent Efficiency of Control: 90% | |
| 3. Potential Emissions: 148.3 lb/hour 404.7 tons/year | | 4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | |
| 6. Emission Factor: 42 ppmvd @ 15%O₂ Reference: Permit Limit (BACT) | | | 7. Emissions Method Code: 0 |
| 8.a. Baseline Actual Emissions (if required): tons/year | | 8.b. Baseline 24-month Period: From: To: | |
| 9.a. Projected Actual Emissions (if required): tons/year | | 9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years | |
| 10. Calculation of Emissions: Potential emissions based on permit Table 1. Hourly potential emission based on CTs at 51°F operating conditions on fuel oil. Annual based on current facility limit. Annual limit for NO_x remains limited based upon a limit of firing < 701,050 gallons of fuel oil per unit per year. | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: Hourly potential emissions based on CTs at 51°F operating conditions on fuel oil. Annual based on facility limit. AC35-196459. PSD-FL-176. | | | |

EMISSIONS UNIT INFORMATION

Section [1] of [2]

POLLUTANT DETAIL INFORMATION

Page [2] of [19] 2 CTs w/ HRSG & DB (NO_x)

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

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 4

| | |
|---|--|
| 1. Basis for Allowable Emissions Code: Other and ESCPSD | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 85.5 lb/hr. | 4. Equivalent Allowable Emissions: 85.5 lb/hour 404.7 tons/year |
| 5. Method of Compliance: Request change from Annual Compliance Test (EPA Method 20) to use of CAIR program CEMs unit and annual RATA. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Total for both units combined with natural gas firing. CTs 1 and 2 are operated with wet injection design to produce 25 ppmvd NO_x @ 15% O₂. Allowable emissions established as BACT in AC Permit, Table 1a. | |

Allowable Emissions Allowable Emissions 2 of 4

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: Other and ESCPSD | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 148.3 lbs/hr/CT | 4. Equivalent Allowable Emissions: 148.3 lb/hour 404.7 tons/year |
| 5. Method of Compliance: Request change from Annual Compliance Test (EPA Method 20) to use of CAIR program CEMs unit and annual RATA. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Oil firing. The CTs are operated with wet injection designed to produce 42 ppmvd NO_x @ 15% O₂. Allowable emission established as BACT in AC Permit, Table 1A. | |

Allowable Emissions Allowable Emissions 3 of 4

| | |
|---|--|
| 1. Basis for Allowable Emissions Code: Other and PSD | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 18 lb/hr | 4. Equivalent Allowable Emissions: 18 lb/hour 404.7 tons/year |
| 5. Method of Compliance: None | |
| 6. Allowable Emissions Comment (Description of Operating Method): Emission limits for 2 Duct Burners as established as BACT. Annual Emissions for facility. Natural Gas fired only. Basis for limit is 0.1 lb/MMBtu | |

EMISSIONS UNIT INFORMATION

Section [1] of [2]

POLLUTANT DETAIL INFORMATION

Page[3]of [19] 2 CTs w/ HRSG & DB (NOx)

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS****Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.****Allowable Emissions** Allowable Emissions **4** of **4**

| | |
|---|---|
| 1. Basis for Allowable Emissions Code: Other and ESCPSD | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 103.5 lbs/hr | 4. Equivalent Allowable Emissions: 103.5 lb/hour 404.7 tons/year |
| 5. Method of Compliance: Request change from Annual Compliance Test (EPA Method 20) to use of CAIR program CEMs unit and annual RATA. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Combined emissions limits for CTs and DBs as established as BACT. Annual emissions for facility. Natural gas firing only. Established by BACT as 25 ppm for CTs and 0.1 lb/MMBtu for DBs. | |

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

Section [1] of [2]

POLLUTANT DETAIL INFORMATION

Page [4] of [19] 2 CTs w/ HRSG & DB (CO)

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

| | | | |
|--|--|---|--|
| 1. Pollutant Emitted: CO | | 2. Total Percent Efficiency of Control: | |
| 3. Potential Emissions: 92 lb/hour 350.3 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: 28 ppmvd for CT and 0.2 lb/MMBtu for DB Reference: Permit Limit (BACT) | | 7. Emissions Method Code: 0 | |
| 8.a. Baseline Actual Emissions (if required): tons/year | | 8.b. Baseline 24-month Period: From: To: | |
| 9.a. Projected Actual Emissions (if required): tons/year | | 9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years | |
| 10. Calculation of Emissions: Firing CTs and DBs on natural gas. Hourly potential emission based on CTs at 51°F operating conditions on natural gas. | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: Hourly potential emissions based on CTs/ DBs at 51°F operating conditions on natural gas. | | | |

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

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 4

| | |
|---|--|
| 1. Basis for Allowable Emissions Code: Other and ESCPSD | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 56 lb/hr | 4. Equivalent Allowable Emissions: 56 lb/hour 350.3 tons/year |
| 5. Method of Compliance: Five Year Renewal Compliance Test; EPA Method 10. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Natural Gas Firing; CT Units 1 & 2; established as BACT in AC51-196460, Table 1A; Basis of limit is 28 ppmvd. | |

Allowable Emissions Allowable Emissions 2 of 4

| | |
|--|--|
| 1. Basis for Allowable Emissions Code: Other and ESCPSD | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 34.5 lb/hr | 4. Equivalent Allowable Emissions: 34.5 lb/hour 350.3 tons/year |
| 5. Method of Compliance: Five Year Renewal Compliance Test; EPA Method 10, if operated greater than 400 hr/year on fuel oil. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Oil firing; CTs 1 and 2; established as BACT; basis of limit is 18 ppmvd. Annual limit based upon a limit of firing <701,050 gallons of fuel oil per unit per year. | |

Allowable Emissions Allowable Emissions 3 of 4

| | |
|--|--|
| 1. Basis for Allowable Emissions Code: Other and ESCPSD | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 36 lb/hr | 4. Equivalent Allowable Emissions: 36 lb/hour 350.3 tons/year |
| 5. Method of Compliance: None | |
| 6. Allowable Emissions Comment (Description of Operating Method): Natural gas firing for Duct Burners in Units 1 and 2; established as BACT; basis for limit is 0.2 lb/MMBtu heat input. Each DB is limited to 525,000 MMBtu/yr. | |

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

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions **4** of **4**

| | |
|---|--|
| 1. Basis for Allowable Emissions Code: Other and ESCPSD | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 92 lb/hr | 4. Equivalent Allowable Emissions: 92 lb/hour 350.3 tons/year |
| 5. Method of Compliance: Five Year Renewal Compliance Test; EPA Method 10. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Natural gas firing for CTs and DBs; represents BACT of 28 ppm for gas firing on CTs of 56.0 lb/hr, and 0.2 lb/MMBtu on DBs which reflects 36 lb/hr. | |

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 INFORMATIONSection [1] of [2]
Total)**POLLUTANT-DETAIL INFORMATION**

Page [7] of [19] 2 CTs w/ HRSG & DB (PM-

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

| | | | |
|--|--|---|--|
| 1. Pollutant Emitted: PM-Total | | 2. Total Percent Efficiency of Control: | |
| 3. Potential Emissions: 20 lb/hour 27 tons/year | | 4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | |
| 6. Emission Factor: 0.026 lb/MMBtu Reference: Permit Limit (BACT) | | 7. Emissions Method Code: 0 | |
| 8.a. Baseline Actual Emissions (if required): tons/year | | 8.b. Baseline 24-month Period: From: To: | |
| 9.a. Projected Actual Emissions (if required): tons/year | | 9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years | |
| 10. Calculation of Emissions: Potential emissions based on permit limit for CTs and only when firing on fuel oil. | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: Hourly potential emissions based on CTs at 51°F operating conditions on fuel oil. Annual based on permit limit. | | | |

EMISSIONS UNIT INFORMATION

Section [1] of [2]

POLLUTANT DETAIL INFORMATION

Page[8] of [19] 2 CTs w/ HRSG & DB (PM – Total)

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS****Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.****Allowable Emissions Allowable Emissions 1 of 4**

| | |
|--|--|
| 1. Basis for Allowable Emissions Code: Other | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 5 lb/hr | 4. Equivalent Allowable Emissions: 5 lb/hour 27 tons/year |
| 5. Method of Compliance: Annual VE test; 10% or less. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Natural gas firing; CTs 1 & 2, established as BACT in Permit; Table 1A; basis of limit is 0.0065 lb/MMBtu. | |

Allowable Emissions Allowable Emissions 2 of 4

| | |
|--|---|
| 1. Basis for Allowable Emissions Code: Other | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 20 lb/hr | 4. Equivalent Allowable Emissions: 20 lb/hour 27 tons/year |
| 5. Method of Compliance: Annual VE test; 10% or less; only required if operated >400 hr/yr operation on fuel oil. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Oil firing; CTs 1 & 2; established as BACT in AC Permit, Table 1A; basis of limit is 0.026 lb/MMBtu. | |

Allowable Emissions Allowable Emissions 3 of 4

| | |
|--|--|
| 1. Basis for Allowable Emissions Code: Other | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 2.6 lb/hr | 4. Equivalent Allowable Emissions: 2.6 lb/hour 27 tons/year |
| 5. Method of Compliance: None. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Natural gas firing for Duct burners in Units 1 & 2; established as BACT; basis of limit 0.006 lb/ MMBtu. | |

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

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions **4** of **4**

| | |
|--|--|
| 1. Basis for Allowable Emissions Code: Other | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 7.6 lb/hr | 4. Equivalent Allowable Emissions: 7.6 lb/hour 27 tons/year |
| 5. Method of Compliance: Annual VE test; 10% or less. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Natural gas firing for CTs and DBs. Established as BACT. | |

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, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

| | | | |
|--|--|---|--|
| 1. Pollutant Emitted: PM-10 | | 2. Total Percent Efficiency of Control: | |
| 3. Potential Emissions: 20 lb/hour 27 tons/year | | 4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | |
| 6. Emission Factor: 0.026 lb/MMBtu Reference: Permit limit (BACT) ; assumed equal to PM Total | | 7. Emissions Method Code: 0 | |
| 8.a. Baseline Actual Emissions (if required): tons/year | | 8.b. Baseline 24-month Period: From: To: | |
| 9.a. Projected Actual Emissions (if required): tons/year | | 9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years | |
| 10. Calculation of Emissions: Potential emissions based upon permit limit. NOTE, as done in previous permit applications, PM-10 is assumed equal to PM-Total. Testing based upon non-condensable portion fraction of test only. If the FDEP requires both condensable and non-condensable fractions, then the factor for PM-10 should be doubled to 0.052 and the potential emissions doubled to 40 lbs/hr and 54 tons/yr, respectively. For the purpose of this application it has not been and it remains the same as in the original construction permit and Title V application. | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: Hourly potential emissions based on CTs at 51°F operating conditions on fuel oil. Annual based upon permit limit. | | | |

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

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 4

| | |
|---|--|
| 1. Basis for Allowable Emissions Code: Other | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 5 lb | 4. Equivalent Allowable Emissions: 5 lb/hour 27 tons/year |
| 5. Method of Compliance: Annual VE test; 10% or less | |
| 6. Allowable Emissions Comment (Description of Operating Method): Natural gas firing; CTs 1 & 2, established as BACT in AC Permit; Table1A; basis of limit 0.0065 lb/MMBtu. | |

Allowable Emissions Allowable Emissions 2 of 4

| | |
|--|---|
| 1. Basis for Allowable Emissions Code: Other | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 20 lb/ hr | 4. Equivalent Allowable Emissions: 20 lb/hour 27 tons/year |
| 5. Method of Compliance: Annual VE test; 10% or less; only if operated on fuel oil >400 hours per year. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Oil firing; CTs 1 & 2; established as BACT; basis of limit is 0.026 lb/ MMBtu. | |

Allowable Emissions Allowable Emissions 3 of 4

| | |
|---|--|
| 1. Basis for Allowable Emissions Code: Other | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 2.6 lb/hr | 4. Equivalent Allowable Emissions: 2.6 lb/hour 27 tons/year |
| 5. Method of Compliance: None. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Natural gas firing for DBs 1 & 2; established as BACT; basis of limit is 0.006 lb/ MMBtu. | |

EMISSIONS UNIT INFORMATION

Section [1] of [2]

POLLUTANT DETAIL INFORMATION

Page [12] of [19] 2 CTs w/ HRSG & DB (PM10)

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

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions **4** of **4**

| | |
|--|--|
| 1. Basis for Allowable Emissions Code: Other | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 7.6 lb/hr | 4. Equivalent Allowable Emissions: 7.6 lb/hour 27 tons/year |
| 5. Method of Compliance: Annual VE test; 10% or less. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Natural gas firing for CTs and DBs. Established as BACT. | |

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

Section [1] of [2]

POLLUTANT DETAIL INFORMATION

Page[13] of [19] 2 CTs w/ HRSG & DB (VOC)

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

| | | | |
|--|--|---|--|
| 1. Pollutant Emitted: VOC | | 2. Total Percent Efficiency of Control: | |
| 3. Potential Emissions: 8.8 lb/hour 30.8 tons/year | | 4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | |
| 6. Emission Factor: Reference: Permit limit | | 7. Emissions Method Code: 0 | |
| 8.a. Baseline Actual Emissions (if required): tons/year | | 8.b. Baseline 24-month Period: From: To: | |
| 9.a. Projected Actual Emissions (if required): tons/year | | 9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years | |
| 10. Calculation of Emissions: Potential emissions based upon permit limit for VOC emissions from both CTs and DBs combined. | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: Hourly potential emissions based on CTs/ DBs at 51°F operating conditions while operating on natural gas. Annual based upon permit limit. | | | |

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

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions **1** of **4**

| | |
|--|--|
| 1. Basis for Allowable Emissions Code: Other | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 3.4 lb/ hr | 4. Equivalent Allowable Emissions: 3.4 lb/hour 30.8 tons/year |
| 5. Method of Compliance: Compliance with CO limit. (See permit condition). | |
| 6. Allowable Emissions Comment (Description of Operating Method): Natural gas firing; CTs 1 and 2; established as permit limit in AC permit. | |

Allowable Emissions Allowable Emissions **2** of **4**

| | |
|--|--|
| 1. Basis for Allowable Emissions Code: Other | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 8.7 lb/hr | 4. Equivalent Allowable Emissions: 8.7 lb/hour 30.8 tons/year |
| 5. Method of Compliance: Compliance with CO limit. (See permit condition) | |
| 6. Allowable Emissions Comment (Description of Operating Method): Oil firing; CTs 1 & 2. | |

Allowable Emissions Allowable Emissions **3** of **4**

| | |
|---|--|
| 1. Basis for Allowable Emissions Code: Other | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 5.4 lb/hr | 4. Equivalent Allowable Emissions: 5.4 lb/hour 30.8 tons/year |
| 5. Method of Compliance: None | |
| 6. Allowable Emissions Comment (Description of Operating Method): Natural gas firing of DBs 1 & 2. Testing is required only if CO standard is exceeded. | |

EMISSIONS UNIT INFORMATION

Section [1] of [2]

POLLUTANT DETAIL INFORMATION

Page [15] of [19] 2 CTs w/ HRSG & DB (VOC)

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

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions **4** of **4**

| | |
|---|--|
| 1. Basis for Allowable Emissions Code: Other | 2. Future Effective Date of Allowable Emissions: |
| 3. Allowable Emissions and Units: 8.8 lb/hr | 4. Equivalent Allowable Emissions: 8.8 lb/hour 30.8 tons/year |
| 5. Method of Compliance: Annual Operating Report. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Natural gas firing for CTs and DBs. | |

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

Section [1] of [2]

POLLUTANT DETAIL INFORMATION

Page [16] of [19] 2 CTs w/ HRSG & DB (SO2)

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

(Optional for unregulated emissions units.)

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

| | | | |
|--|--|---|--|
| 1. Pollutant Emitted: SO2 | | 2. Total Percent Efficiency of Control: | |
| 3. Potential Emissions: 43.8 lb/hour 10.5 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: 0.05% sulfur in fuel oil. Reference: NSPS Subpart KKKK | | 7. Emissions Method Code: 0 | |
| 8.a. Baseline Actual Emissions (if required): tons/year | | 8.b. Baseline 24-month Period: From: To: | |
| 9.a. Projected Actual Emissions (if required): tons/year | | 9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years | |
| 10. Calculation of Emissions: Potential emissions based on NSPS Subpart KKKK and the permitted limit on hours of firing (only when firing on fuel oil). | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: Hourly potential emissions based upon CTs at 51°F operating conditions on fuel oil. Annual based on permit limit. | | | |

EMISSIONS UNIT INFORMATION

Section [1] of [2]

POLLUTANT DETAIL INFORMATION

Page [17] of [19] 2 CTs w/ HRSG & DB (SO2)

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

Complete Subsection F2 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: 43.8 lb/ hr | 4. Equivalent Allowable Emissions: 43.8 lb/hour 10.5 tons/year |
| 5. Method of Compliance: Fuel analysis; oil firing. | |
| 6. Allowable Emissions Comment (Description of Operating Method): Potential emissions based on NSPS Subpart KKKK and the permitted limit on hours of firing (only when firing on fuel oil). | |

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

Section [1] of [2]

POLLUTANT DETAIL INFORMATION

Page[18]of [19] 2 CTs w/ HRSG & DB (SAM)

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS****(Optional for unregulated emissions units.)**

Complete a Subsection F1 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 operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

| | | | |
|---|--|---|--|
| 1. Pollutant Emitted: SAM | | 2. Total Percent Efficiency of Control: | |
| 3. Potential Emissions: lb/hour 0.4 tons/year | | 4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 5. Range of Estimated Fugitive Emissions (as applicable): to tons/year | | | |
| 6. Emission Factor: 0.05% sulfur in fuel oil Reference: NSPS Subpart KKKK and permit limit | | 7. Emissions Method Code: 0 | |
| 8.a. Baseline Actual Emissions (if required): tons/year | | 8.b. Baseline 24-month Period: From: To: | |
| 9.a. Projected Actual Emissions (if required): tons/year | | 9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years | |
| 10. Calculation of Emissions: Potential emissions based upon NSPS Subpart KKKK and permit limit when firing distillate fuel oil. Both CTs combined. | | | |
| 11. Potential, Fugitive, and Actual Emissions Comment: Annual based upon permit limit for both units combined. | | | |

EMISSIONS UNIT INFORMATION

Section [1] of [2]

POLLUTANT DETAIL INFORMATION

Page [19] of [19] 2 CTs w/ HRSG & DB (SAM)

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

Complete Subsection F2 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: 0.4 tpy | 4. Equivalent Allowable Emissions: lb/hour 0.4 tons/year |
| 5. Method of Compliance: Fuel analysis; oil firing | |
| 6. Allowable Emissions Comment (Description of Operating Method): Allowable emissions established as limit in AC Permit, Table 1A for distillate oil firing. Annual limit established for facility. | |

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

Section [1] of [2]

G. VISIBLE EMISSIONS INFORMATION

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

| | |
|---|--|
| 1. Visible Emissions Subtype: VE10 | 2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other |
| 3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour | |
| 4. Method of Compliance: EPA Method 9 | |
| 5. Visible Emissions Comment: VE limit established in AC Permit. | |

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

| | |
|--|--|
| 1. Visible Emissions Subtype: VE99 | 2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other |
| 3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: min/hour | |
| 4. Method of Compliance: Best Operating Practice | |
| 5. Visible Emissions Comment: Excess VE allowed for startup and shutdown of each CT pursuant to FDEP Rule 62-210.700(1); Two hours per 24 period per CT. | |

EMISSIONS UNIT INFORMATION

Section [1] of [2]

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor 1 of 2

| | |
|---|---|
| 1. Parameter Code: | 2. Pollutant(s): |
| 3. CMS Requirement: | <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other |
| 4. Monitor Information... CISCO Systems Manufacturer: Model Number: 10008160 Serial Number: | |
| 5. Installation Date: 01 July 1993 (original); Upgraded system 01 November 2007 | 6. Performance Specification Test Date: December 18, 2007 |
| 7. Continuous Monitor Comment: In 2007 per CAIR requirements a NOx CEMS was installed, tested and certified. This replaces the water to fuel ratio monitoring system for compliance purposes in the permit. | |

Continuous Monitoring System: Continuous Monitor 2 of 2

| | |
|--|---|
| 1. Parameter Code: | 2. Pollutant(s): |
| 3. CMS Requirement: | <input checked="" 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] of [2]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)**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] of [2]

I. EMISSIONS UNIT ADDITIONAL INFORMATION**Additional Requirements for All Applications, Except as Otherwise Stated**

| |
|--|
| 1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>11/27/06</u> |
| 2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>11/27/06</u> |
| 3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>11/27/06</u> |
| 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 checked="" type="checkbox"/> Previously Submitted, Date <u>11/27/06</u> <input 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 checked="" type="checkbox"/> Attached, Document ID: <u>LC-EU1-11</u> Test Date(s)/Pollutant(s) Tested: <u>12/18-19/07 for NOx and CO; 2/15/08 for CO</u> <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 type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application. |
| 7. Other Information Required by Rule or Statute: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable |

Section [1] of [2]

Additional Requirements for Air Construction Permit Applications

- ### **Additional Requirements for Title V Air Operation Permit Applications**

- ### **Additional Requirements Comment**

| |
|--|
| |
|--|

EMISSIONS UNIT INFORMATION**Section [2] of [2]****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:

Facility wide fugitive and vent emissions

3. Emissions Unit Identification Number:

| | | | |
|--|--------------------------------|--|---|
| 4. Emissions Unit Status Code: A | 5. Commence Construction Date: | 6. Initial Startup Date: 1 July 1993 | 7. Emissions Unit Major Group SIC Code: 49 |
|--|--------------------------------|--|---|

8. Federal Program Applicability: (Check all that apply)

- ☐ Acid Rain Unit
- ☐ CAIR Unit
- ☐ Hg Budget Unit

9. Package Unit:

Manufacturer:

Model Number:

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

This emissions unit consists of a fuel storage tank, facility-wide fugitive and vent emissions from various locations throughout the facility. The cumulative emissions from these units are less than the reporting thresholds. List of exemptions: 62-210.300(3)(a)5, 7, 9, 10, 11, 12, 15, 16, 20, 21, 22, 23, 24; 62-296.310(2) and (3). Trivial sources included for completeness.

EMISSIONS UNIT INFORMATION

Section [2] of [2]

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [2] of [2]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

| | | |
|--|---------------------------|-------------------------|
| 1. Maximum Process or Throughput Rate: | 701,050 gal/ yr/CT | |
| 2. Maximum Production Rate: | | |
| 3. Maximum Heat Input Rate: | 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: | | |
| This is the maximum process rate per CT to reflect fuel oil throughput from the oil storage tank. | | |

EMISSIONS UNIT INFORMATION

Section [2] of [2]

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: Facility wide | | 2. Emission Point Type Code: | |
| 3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: | | | |
| 4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: | | | |
| 5. Discharge Type Code: F | 6. Stack Height: feet | 7. Exit Diameter: feet | |
| 8. Exit Temperature: °F ambient | 9. Actual Volumetric Flow Rate: acfm | 10. Water Vapor: % | |
| 11. Maximum Dry Standard Flow Rate: dscfm | | 12. Nonstack Emission Point Height: 0 feet | |
| 13. Emission Point UTM Coordinates... Zone: East (km): North (km): | | 14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS) | |
| 15. Emission Point Comment: Emission points are fugitive and are located throughout the facility. | | | |

EMISSIONS UNIT INFORMATION

Section [2] of [2]

D. SEGMENT (PROCESS/FUEL) INFORMATION**Segment Description and Rate:** Segment 1 of 1

| | | |
|---|---------------------------------------|---|
| 1. Segment Description (Process/Fuel Type): Petroleum Liquid Storage: fixed roof tank, distillate no. 2 fuel oil; working loss. | | |
| 2. Source Classification Code (SCC): 4-03-010-20 | | 3. SCC Units: Thousand gallons stored |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: 170 | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: 0.05 | 8. Maximum % Ash: 0 | 9. Million Btu per SCC Unit: 130 |
| 10. Segment Comment: Maximum Annual Rate: Reflects storage capacity of tank. Fuel sulfur limit is per NSPS Subpart KKKK. | | |

Segment Description and Rate: Segment of

| | | |
|---|-------------------------|--------------------------------------|
| 1. Segment Description (Process/Fuel Type): | | |
| 2. Source Classification Code (SCC): | | 3. SCC Units: |
| 4. Maximum Hourly Rate: | 5. Maximum Annual Rate: | 6. Estimated Annual Activity Factor: |
| 7. Maximum % Sulfur: | 8. Maximum % Ash: | 9. Million Btu per SCC Unit: |
| 10. Segment Comment: | | |

EMISSIONS UNIT INFORMATION

Section [2] of [2]

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 |
|----------------------|--------------------------------|----------------------------------|------------------------------|
| VOCs | | | NS |
| | | | |
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EMISSIONS UNIT INFORMATION

Section [2] of [2]

G. VISIBLE EMISSIONS INFORMATION

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

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: None | |
| 5. Visible Emissions Comment: | |

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 [2] of [2]

H. CONTINUOUS MONITOR INFORMATION Not Applicable**Complete Subsection H 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 [2] of [2]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

| |
|---|
| 1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>11/27/06</u> |
| 2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>11/27/06</u> |
| 3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>11/27/06</u> |
| 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 checked="" type="checkbox"/> Previously Submitted, Date <u>11/27/06</u> <input 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 Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application. |

7. Other Information Required by Rule or Statute:

☐ Attached, Document ID: _____ ☒ Not Applicable

Section [2] of [2]

Additional Requirements for Air Construction Permit Applications

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)):
☐ Attached, Document ID: _____ ☒ Not Applicable
-
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.):
☐ Attached, Document ID: _____ ☒ Not Applicable
-
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only)
☐ Attached, Document ID: _____ ☒ Not Applicable

| | |
|--|--|
| 1. Identification of Applicable Requirements: | <input checked="" type="checkbox"/> Attached, Document ID: LC-EU1-I2 |
| 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 |

| |
|--|
| |
|--|

ATTACHMENT LC-AI-AC
APPLICATION COMMENT

ATTACHMENT LC-AI-AC
APPLICATION COMMENT

This air permit application is for Lake Cogeneration Facility in Lake County, Umatilla Florida.

The application structure is as follows:

Emission Units

| | |
|----------------------|--|
| General: | 2 combustion turbines (CTs)* 2 heat recovery steam generators (HRSGs) 2 duct burners (DBs) |
| Emission Points (2): | 2 stacks for CT/HRSG Units 1 & 2 |
| Fuel Segments: | Natural gas and distillate oil only |

Pollutants

| | |
|---------|--|
| CT/HRSG | NO _x , CO, PM/PM ₁₀ , VOC, and SO ₂ |
|---------|--|

VE Emissions

| | |
|---------|----------------------|
| CT/HRSG | VE limits applicable |
|---------|----------------------|

CEM

| | |
|---------|---|
| CT/HRSG | NO _x , O ₂ , fuel consumption |
|---------|---|

PSD

| | |
|---------|----------------------|
| CT/HRSG | NO _x , CO |
|---------|----------------------|

*currently LM-6000 units to be upgraded to LM-6000 Sprint PC units.

ATTACHMENT LC-FI

EMISSIONS ASSESSMENT FOR HEAT INPUT INCREASE

ATTACHMENT LC-FI

Regulatory Applicability Analysis for Heat Input Increase

This attachment addresses the following items associated with this project:

- Project Description
- Emission Estimates
- Regulatory Review
- Requested Permit Conditions

PROJECT DESCRIPTION

The Lake Cogeneration facility consists of two GE LM-6000 combustion turbine units (CTs), each unit equipped with an inlet chiller and a supplementary fired duct burner (DB) and exhausting through Heat Recovery Steam Generator (HRSG) stacks. The CTs have dual fuel (natural gas and distillate fuel) capability. Both CTs recently underwent a SPRay INtercooling (SPRINT) upgrade for enhanced efficiency per Air Permit No. 0694801-008-AC. Compliance testing was conducted which demonstrated compliance with the limits associated with this construction permit.

Subsequently, it was discovered that the SPRINT turbine upgrade could allow additional firing of the unit beyond the level requested. Therefore, this application also serves to request an additional heat input increase of 3.5 percent [i.e., from the current allowable heat input of 435 MMBtu/hr (LHV) to 450 MMBtu/hr (LHV)]. The vendor of the compressor upgrade has provided guarantees to Lake Cogen that the plant will continue to meet the NO_x and CO permit emission limitations of 25 ppm_{dv}@15% O₂ and 28 ppm_{dv}, respectively.

EMISSION ESTIMATES

Previous criteria pollutant emissions from the Lake CoGen facility for the years 2003 through 2007 are summarized in Tables 1A through 1E of this Attachment). These data were obtained from the Annual Operating Reports (AORs) submitted to the Florida Department of Environmental Protection (FDEP).

As stated previously, the improved compressor blade design is expected to increase the firing capability of the combustion turbine by up to an additional 3.5 percent. Table 1F presents the highest 2-year average baseline and Table 1G provides the projected annual emissions which are achievable after the completion of the upgrade project (i.e., an additional 3.5 percent increase in the allowable heat input).

REGULATORY REVIEW

The first aspect of the regulatory review involves the classification of the change from a programmatic perspective. The facility is considered an existing major source for the Prevention of Significant Determination (PSD) regulations as the permitted potential emissions for the site exceed the 100 ton per year threshold for both oxides of nitrogen (NO_x) and carbon monoxide (CO). Hence, the projected emissions increases (past actual to future projected actual) are compared to the PSD Significant Emission Rates (SERs). The emission increases are presented in Table 1G. The projected criteria pollutant emission increases are considerably less than the corresponding PSD SERs. Hence, PSD review is not required for this construction permit application.

Table 1F summarizes the greatest past actual 2-year average annual emission per pollutant (TPY) for the facility. Recent revisions to the State of Florida's new source review program (62-210.200) now allow

for "actual emissions" to be determined over "consecutive 24-month periods"; however, for purposes of this analysis, the highest 2 calendar year periods in the previous 5 years were considered.

Note that the emission netting information was developed using the simplifying assumption that the compressor upgrade would produce the maximum heat input increase of 3.5 percent compared to baseline operations. This assumption greatly overestimates the likely emission change, as the additional heat input capability would only be exercised during those periods in which the plant is operating the turbine at base load in order to sell power into the grid during conditions of extremely high demand. The impact of the compressor upgrade on fuel firing and emissions during the typical plant dispatch conditions will likely be to reduce fuel firing and emissions as compared to the existing condition. This reduction is because the improved capabilities of the combustion turbine after the compressor upgrade will allow the plant to operate at a more efficient heat rate. Even with the use of conservative simplifying assumptions, Table 1G demonstrates that emissions increases after the compressor upgrade will not exceed the SERs that would trigger PSD review for affected pollutants.

This request will trigger applicability of the recently promulgated New Source Performance Standard (NSPS), Subpart KKKK, *Standards of Performance for Stationary Combustion Turbines*. This applicability is due to the fact that this request constitutes a change in the method of operation accompanied by an increase in the actual hourly emission rate of a regulated pollutant, commencing after February 18, 2005. The facility, as currently permitted, will meet the allowable emissions requirements in this newly promulgated NSPS. This NSPS regulates the pollutants SO₂ and NO_x. The SO₂ emission limit involves a choice of two limits, one that is expressed based on mass per power output, and one that is based on fuel sulfur content. These two limits are contained in 40 CFR §60.4330, and are summarized following:

1. 0.90 pounds SO₂ per megawatt-hour gross output; or,
2. 0.060 pounds SO₂ per MMBtu heat input.

The facility uses pipeline quality natural gas, which because of its low sulfur content, enables the combustion turbine to meet either of these two limits with a large margin of compliance.

The NO_x emission limit for this combustion turbine (based on maximum heat input rating being greater than 50 MMBtu/hr and less than 850 MMBtu/hr) is similarly stated as a choice of two limits. One limit is based on concentration in the effluent gas, and the other limit is based on mass per power output. These two limits are contained in Table 1 of the NSPS, and are summarized following:

1. 42 ppm at 15 percent O₂; or,
2. 2.0 pounds per megawatt-hour gross output.

The NSPS allowable limit is higher than the current BACT permit limit. Hence, no changes to the emission limit are required for the NO_x limit to incorporate the NSPS. Table 1 of the current TV permit addresses sulfur dioxide, and will need to be changed to include the NSPS limits.

TABLE 1-A

2003 FACILITY EMISSIONS SUMMARY
Lake Cogeneration Facility - ID No. 0694801

| Air Pollutant | Emission Unit 003 (aka Unit 1) | | Emission Unit 004 (aka Unit 2) | | Total 2003 Emissions (TPY) |
|------------------|--------------------------------|-----------------|--------------------------------|-----------------|----------------------------|
| | Nat. Gas (TPY) | Dist. Oil (TPY) | Nat. Gas (TPY) | Dist. Oil (TPY) | |
| CO | 62.1 | 0.0 | 63.5 | 0.0 | 125.6 |
| NO _x | 95.0 | 0.0 | 97.1 | 0.0 | 192.1 |
| PM | 6.1 | 0.0 | 6.2 | 0.0 | 12.3 |
| PM ₁₀ | 6.1 | 0.0 | 6.2 | 0.0 | 12.3 |
| SO ₂ | 2.8 | 0.0 | 2.9 | 0.0 | 5.7 |
| VOC | 3.8 | 0.0 | 3.8 | 0.0 | 7.6 |

TABLE 1-B

2004 FACILITY EMISSIONS SUMMARY
Lake Cogeneration Facility - ID No. 0694801

| Air Pollutant | Emission Unit 003 (aka Unit 1) | | Emission Unit 004 (aka Unit 2) | | Total 2004 Emissions (TPY) |
|------------------|--------------------------------|-----------------|--------------------------------|-----------------|-------------------------------|
| | Nat. Gas (TPY) | Dist. Oil (TPY) | Nat. Gas (TPY) | Dist. Oil (TPY) | |
| CO | 60.4 | 0.0 | 59.4 | 0.0 | 119.8 |
| NO _x | 92.5 | 0.0 | 91.0 | 0.0 | 183.5 |
| PM | 6.0 | 0.0 | 5.9 | 0.0 | 11.9 |
| PM ₁₀ | 6.0 | 0.0 | 5.9 | 0.0 | 11.9 |
| SO ₂ | 2.7 | 0.0 | 2.7 | 0.0 | 5.4 |
| VOC | 3.7 | 0.0 | 3.6 | 0.0 | 7.3 |

TABLE 1-C

2005 FACILITY EMISSIONS SUMMARY
Lake Cogeneration Facility - ID No. 0694801

| Air Pollutant | Emission Unit 003 (aka Unit 1) | | Emission Unit 004 (aka Unit 2) | | Total 2005 Emissions (TPY) |
|----------------------|---------------------------------------|------------------------|---------------------------------------|------------------------|-----------------------------------|
| | Nat. Gas (TPY) | Dist. Oil (TPY) | Nat. Gas (TPY) | Dist. Oil (TPY) | |
| CO | 61.0 | 0.0 | 60.9 | 0.0 | 121.9 |
| NO _x | 93.4 | 0.0 | 93.2 | 0.0 | 186.6 |
| PM | 6.0 | 0.0 | 6.0 | 0.0 | 12.0 |
| PM ₁₀ | 6.0 | 0.0 | 6.0 | 0.0 | 12.0 |
| SO ₂ | 2.8 | 0.0 | 2.8 | 0.0 | 5.6 |
| VOC | 3.7 | 0.0 | 3.7 | 0.0 | 7.4 |

TABLE 1-D

2006 FACILITY EMISSIONS SUMMARY
Lake Cogeneration Facility - ID No. 0694801

| Air Pollutant | Emission Unit 003 (aka Unit 1) | | Emission Unit 004 (aka Unit 2) | | Total 2006 Emissions (TPY) |
|------------------|--------------------------------|-----------------|--------------------------------|-----------------|-------------------------------|
| | Nat. Gas (TPY) | Dist. Oil (TPY) | Nat. Gas (TPY) | Dist. Oil (TPY) | |
| CO | 60.8 | 0.0 | 61.6 | 0.0 | 122.4 |
| NO _x | 93.0 | 0.0 | 94.2 | 0.0 | 187.2 |
| PM | 6.0 | 0.0 | 6.1 | 0.0 | 12.1 |
| PM ₁₀ | 6.0 | 0.0 | 6.1 | 0.0 | 12.1 |
| SO ₂ | 2.8 | 0.0 | 2.8 | 0.0 | 5.6 |
| VOC | 3.7 | 0.00 | 3.7 | 0.0 | 7.4 |

TABLE 1-E

2007 FACILITY EMISSIONS SUMMARY
Lake Cogeneration Facility - ID No. 0694801

| Air Pollutant | Emission Unit 003 (aka Unit 1) | | Emission Unit 004 (aka Unit 2) | | Total 2007 Emissions (TPY) |
|------------------|--------------------------------|-----------------|--------------------------------|-----------------|----------------------------|
| | Nat. Gas (TPY) | Dist. Oil (TPY) | Nat. Gas (TPY) | Dist. Oil (TPY) | |
| CO | 58.7 | 0.0 | 60.3 | 0.0 | 119.0 |
| NO _x | 89.8 | 0.0 | 92.3 | 0.0 | 182.1 |
| PM | 5.8 | 0.0 | 5.9 | 0.0 | 11.7 |
| PM ₁₀ | 5.8 | 0.0 | 5.9 | 0.0 | 11.7 |
| SO ₂ | 2.7 | 0.0 | 2.7 | 0.0 | 5.4 |
| VOC | 3.6 | 0.0 | 3.7 | 0.0 | 7.3 |

TABLE 1-F

EMISSION ANALYSIS
Lake Cogeneration Facility - ID No. 0694801

| Air Pollutant | Total 2003 Emissions (Tons/Year) | Total 2004 Emissions (Tons/Year) | Total 2005 Emissions (Tons/Year) | Total 2006 Emissions (Tons/Year) | Total 2007 Emissions (Tons/Year) | Highest 2-yr Average | CY |
|----------------------|---|---|---|---|---|---------------------------------|-----------|
| CO | 125.6 | 119.8 | 121.9 | 122.4 | 119.0 | 122.7 | 2003-2004 |
| NO _x | 192.1 | 183.5 | 186.6 | 187.2 | 182.1 | 187.8 | 2003-2004 |
| PM | 12.3 | 11.9 | 12.0 | 12.1 | 11.7 | 12.1 | 2003-2004 |
| PM ₁₀ | 12.3 | 11.9 | 12.0 | 12.1 | 11.7 | 12.1 | 2003-2004 |
| SO ₂ | 5.7 | 5.4 | 5.6 | 5.6 | 5.4 | 5.6 | 2005-2006 |
| VOC | 7.6 | 7.3 | 7.4 | 7.4 | 7.3 | 7.5 | 2003-2004 |

TABLE 1-G

EMISSION ANALYSIS
Lake Cogeneration Facility - ID No. 0694801

| Air Pollutant | Highest 2-yr Average (TPY) | 3.5% HI Increase (TPY)* | PSD Netting Analysis | | |
|------------------|-------------------------------|----------------------------|----------------------|---------|-------|
| | | | Increase (TPY) | PSD SER | PSD ? |
| CO | 122.7 | 127.0 | 4.3 | 100 | NO |
| NO _x | 187.8 | 194.4 | 6.6 | 40 | NO |
| PM | 12.1 | 12.5 | 0.4 | 25 | NO |
| PM ₁₀ | 12.1 | 12.5 | 0.4 | 15 | NO |
| SO ₂ | 5.6 | 5.8 | 0.2 | 40 | NO |
| VOC | 7.5 | 7.7 | 0.3 | 40 | NO |

ATTACHMENT LC-FI-C1
IDENTIFICATION OF APPLICABLE REQUIREMENTS

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06)

[Note: This attachment includes "canned conditions" developed from the "Title V Core List."]

{Permitting note: APPENDIX TV-6, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided one copy when requested or otherwise appropriate.}

Chapter 62-4, F.A.C.

1. **Not federally enforceable. General Prohibition.** Any stationary installation which will reasonably be expected to be a source of pollution shall not be operated, maintained, constructed, expanded, or modified without the appropriate and valid permits issued by the Department, unless the source is exempted by Department rule. The Department may issue a permit only after it receives reasonable assurance that the installation will not cause pollution in violation of any of the provisions of Chapter 403, F.S., or the rules promulgated thereunder. A permitted installation may only be operated, maintained, constructed, expanded or modified in a manner that is consistent with the terms of the permit.

[Rule 62-4.030, Florida Administrative Code (F.A.C.); and, Section 403.087, Florida Statute (F.S.)]

2. **Not federally enforceable. Procedures to Obtain Permits and Other Authorizations; Applications.**

(1) Any person desiring to obtain a permit from the Department shall apply on forms prescribed by the Department and shall submit such additional information as the Department by law may require.

(2) All applications and supporting documents shall be filed in quadruplicate with the Department.

(3) To ensure protection of public health, safety, and welfare, any construction, modification, or operation of an installation which may be a source of pollution, shall be in accordance with sound professional engineering practices pursuant to Chapter 471, F.S. All applications for a Department permit shall be certified by a professional engineer registered in the State of Florida except, when the application is for renewal of an air pollution operation permit at a non-Title V source as defined in Rule 62-210.200, F.A.C., or where professional engineering is not required by Chapter 471, F.S. Where required by Chapter 471 or 492, F.S., applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.

(4) Processing fees for air construction permits shall be in accordance with Rule 62-4.050(4), F.A.C.

(5)(a) To be considered by the Department, each application must be accompanied by the proper processing fee. The fee shall be paid by check, payable to the Department of Environmental Protection. The fee is non-refundable except as provided in Section 120.60, F.S., and in this section.

(b) When an application is received without the required fee, the Department shall acknowledge receipt of the application and shall immediately notify the applicant by certified mail that the required fee was not received and advise the applicant of the correct fee. The Department shall take no further action until the correct fee is received. If a fee was received by the Department which is less than the amount required, the Department shall return the fee along with the written notification.

(c) Upon receipt of the proper application fee, the permit processing time requirements of Sections 120.60(2) and 403.0876, F.S., shall begin.

(d) If the applicant does not submit the required fee within ten days of receipt of written notification, the Department shall either return the unprocessed application or arrange with the applicant for the pick up of the application.

(e) If an applicant submits an application fee in excess of the required fee, the permit processing time requirements of Sections 120.60(2) and 403.0876, F.S., shall begin upon receipt, and the Department shall refund to the applicant the amount received in excess of the required fee.

(6) Any substantial modification to a complete application shall require an additional processing fee determined pursuant to the schedule set forth in Rule 62-4.050, F.A.C., and shall restart the time requirements of Sections 120.60 and 403.0876, F.S. For purposes of this subsection, the term "substantial modification" shall mean a modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review.

(7) Modifications to existing permits proposed by the permittee which require substantial changes in the existing permit or require substantial evaluation by the Department of potential impacts of the proposed modifications shall require the same fee as a new application for the same time duration except for modification under Chapter 62-45, F.A.C.

[Rule 62-4.050, F.A.C.]

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

3. Standards for Issuing or Denying Permits. Except as provided at Rule 62-213.460, F.A.C., the issuance of a permit does not relieve any person from complying with the requirements of Chapter 403, F.S., or Department rules.
[Rule 62-4.070(7), F.A.C.]

4. Modification of Permit Conditions.

(1) For good cause 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. For the purpose of this section, good cause shall include, but not be limited to, any of the following: (also, see Condition No. 38.)

- (a) A showing that an improvement in effluent or emission quality or quantity can be accomplished because of technological advances without unreasonable hardship.
- (b) A showing that a higher degree of treatment is necessary to effect the intent and purpose of Chapter 403, F.S.
- (c) A showing of any change in the environment or surrounding conditions that requires a modification to conform to applicable air or water quality standards.
- (e) Adoption or revision of Florida Statutes, rules, or standards which require the modification of a permit condition for compliance.

(2) A permittee may request a modification of a permit by applying to the Department.

(3) A permittee may request that a permit be extended as a modification of the permit. Such a request must be submitted to the Department in writing before the expiration of the permit. Upon timely submittal of a request for extension, unless the permit automatically expires by statute or rule, the permit will remain in effect until final agency action is taken on the request. For construction permits, an extension shall be granted if the applicant can demonstrate reasonable assurances that, upon completion, the extended permit will comply with the standards and conditions required by applicable regulation. For all other permits, an extension shall be granted if the applicant can demonstrate reasonable assurances that the extended permit will comply with the standards and conditions applicable to the original permit. A permit for which the permit application fee was prorated in accordance with Rule 62-4.050(4)(v), F.A.C., shall not be extended. In no event shall a permit be extended or remain in effect longer than the time limits established by statute or rule.

[Rule 62-4.080, F.A.C.]

5. Renewals. Prior to 180 days before the expiration of a permit issued pursuant to Chapter 62-213, F.A.C., the permittee shall apply for a renewal of a permit using forms incorporated by reference in the specific rule chapter for that kind of permit. A renewal application shall be timely and sufficient. If the application is submitted prior to 180 days before expiration of the permit, it will be considered timely and sufficient. If the renewal application is submitted at a later date, it will not be considered timely and sufficient unless it is submitted and made complete prior to the expiration of the operation permit. When the application for renewal is timely and sufficient, the existing permit shall remain in effect until the renewal application has been finally acted upon by the Department or, if there is court review of the Department's final agency action, until a later date is required by Section 120.60, F.S., provided that, for renewal of a permit issued pursuant to Chapter 62-213, F.A.C., the applicant complies with the requirements of Rules 62-213.420(1)(b)3. and 4., F.A.C.

[Rule 62-4.090, F.A.C.]

6. Suspension and Revocation.

(1) Permits shall be effective until suspended, revoked, surrendered, or expired and shall be subject to the provisions of Chapter 403, F.S., and rules of the Department.

(2) Failure to comply with pollution control laws and rules shall be grounds for suspension or revocation.

(3) A permit issued pursuant to Chapter 62-4, F.A.C., shall not become a vested property right in the permittee. The Department may revoke any permit issued by it if it finds that the permit holder or his agent:

- (a) Submitted false or inaccurate information in his application or operational reports.
- (b) Has violated law, Department orders, rules or permit conditions.
- (c) Has failed to submit operational reports or other information required by Department rules.
- (d) Has refused lawful inspection under Section 403.091, F.S.

(4) No revocation shall become effective except after notice is served by personal services, certified mail, or newspaper notice pursuant to Section 120.60(7), F.S., upon the person or persons named therein and a hearing held if requested within the time specified in the notice. The notice shall specify the provision of the law, or rule alleged to be violated, or the permit condition or Department order alleged to be violated, and the facts alleged to constitute a violation thereof.

[Rule 62-4.100, F.A.C.]

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

7. **Not federally enforceable. Financial Responsibility.** The Department may require an applicant to submit proof of financial responsibility and may require the applicant to post an appropriate bond to guarantee compliance with the law and Department rules. [Rule 62-4.110, F.A.C.]

8. **Transfer of Permits.**

(1) Within 30 days after the sale or legal transfer of a permitted facility, an "Application for Transfer of Permit" (DEP Form 62-1.201(1)) must be submitted to the Department. This form must be completed with the notarized signatures of both the permittee and the proposed new permittee. For air permits, an "Application for Transfer of Air Permit" (DEP Form 62-210.900(7)) shall be submitted.

(2) The Department shall approve the transfer of a permit unless it determines that the proposed new permittee cannot provide reasonable assurances that conditions of the permit will be met. The determination shall be limited solely to the ability of the new permittee to comply with the conditions of the existing permit, and it shall not concern the adequacy of these permit conditions. If the Department proposes to deny the transfer, it shall provide both the permittee and the proposed new permittee a written objection to such transfer together with notice of a right to request a Chapter 120, F.S., proceeding on such determination.

(3) Within 30 days of receiving a properly completed Application for Transfer of Permit form, the Department shall issue a final determination. The Department may toll the time for making a determination on the transfer by notifying both the permittee and the proposed new permittee that additional information is required to adequately review the transfer request. Such notification shall be served within 30 days of receipt of an Application for Transfer of Permit form, completed pursuant to Rule 62-4.120(1), F.A.C. If the Department fails to take action to approve or deny the transfer within 30 days of receipt of the completed Application for Transfer of Permit form, or within 30 days of receipt of the last item of timely requested additional information, the transfer shall be deemed approved.

(4) The permittee is encouraged to apply for a permit transfer prior to the sale or legal transfer of a permitted facility. However, the transfer shall not be effective prior to the sale or legal transfer.

(5) Until this transfer is approved by the Department, the permittee and any other person constructing, operating, or maintaining the permitted facility shall be liable for compliance with the terms of the permit. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations occurring prior to the sale or legal transfer of the facility.

[Rule 62-4.120, F.A.C.]

9. **Plant Operation-Problems.** If the permittee is temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the permittee shall immediately notify the Department. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its 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 Department rules. (also, see Condition No. 10.)

[Rule 62-4.130, F.A.C.]

10. For purposes of notification to the Department pursuant to Condition No. 9., Condition No. 12.(8), and Rule 62-4.130, F.A.C., Plant Operation-Problems, "immediately" shall mean the same day, if during a workday (i.e., 8:00 a.m. - 5:00 p.m.), or the first business day after the incident, excluding weekends and holidays; and, for purposes of 40 CFR 70.6(a)(3)(iii)(B), "prompt" shall have the same meaning as "immediately". [also, see Conditions Nos. 9. and 12.(8).]

[40 CFR 70.6(a)(3)(iii)(B)]

11. **Not federally enforceable. Review.** Failure to request a hearing within 14 days of receipt of notice of proposed or final agency action on a permit application or as otherwise required in Chapter 62-103, F.A.C., shall be deemed a waiver of the right to an administrative hearing.

[Rule 62-4.150, F.A.C.]

12. **Permit Conditions.** All permits issued by the Department shall include the following general conditions:

(1) The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. 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.

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

- (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 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any 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 of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this 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 F.S. 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 and 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 reasonable times, access to the premises where the permitted activity is located or conducted to:
- (a) Have access to and copy any records that must be kept under 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: **(also, see Condition No. 10.)**
- (a) A description of and cause of noncompliance; and
 - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. 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 403.111 and 403.73, F.S. 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 Rule 62-4.120, 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.
- (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 for this permit. These materials shall be retained at least five (5) 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;

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

5. The analytical techniques or methods used;

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 the 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.

[Rules 62-4.160 and 62-213.440(1)(b), F.A.C.]

13. Construction Permits.

(1) No person shall construct any installation or facility which will reasonably be expected to be a source of air pollution without first applying for and receiving a construction permit from the Department unless exempted by statute or Department rule. In addition to the requirements of Chapter 62-4, F.A.C., applicants for a Department Construction Permit shall submit the following as applicable:

(a) A completed application on forms furnished by the Department.

(b) An engineering report covering:

1. Plant description and operations,
2. Types and quantities of all waste material to be generated whether liquid, gaseous or solid,
3. Proposed waste control facilities,
4. The treatment objectives,
5. The design criteria on which the control facilities are based, and
6. Other information deemed relevant.

Design criteria submitted pursuant to Rule 62-4.210(1)(b)5., F.A.C., shall be based on the results of laboratory and pilot-plant scale studies whenever such studies are warranted. The design efficiencies of the proposed waste treatment facilities and the quantities and types of pollutants in the treated effluents or emissions shall be indicated. Work of this nature shall be subject to the requirements of Chapter 471, F.S. Where confidential records are involved, certain information may be kept confidential pursuant to Section 403.111, F.S.

(c) The owners' written guarantee to meet the design criteria as accepted by the Department and to abide by Chapter 403, F.S., and the rules of the Department as to the quantities and types of materials to be discharged from the installation. The owner may be required to post an appropriate bond or other equivalent evidence of financial responsibility to guarantee compliance with such conditions in instances where the owner's financial resources are inadequate or proposed control facilities are experimental in nature.

(2) The construction permit may contain conditions and an expiration date as determined by the Secretary or the Secretary's designee.

(3) When the Department issues a permit to construct, the permittee shall be allowed a period of time, specified in the permit, to construct, and to operate and test to determine compliance with Chapter 403, F.S., and the rules of the Department and, where applicable, to apply for and receive an operation permit. The Department may require tests and evaluations of the treatment facilities by the permittee at his/her expense.

[Rule 62-4.210, F.A.C.]

14. **Not federally enforceable.** Operation Permit for New Sources. To properly apply for an operation permit for new sources the applicant shall submit the appropriate fee and certification that construction was completed, noting any deviations from the conditions in the construction permit and test results where appropriate.

[Rule 62-4.220, F.A.C.]

Chapters 28-106 and 62-110, F.A.C.

15. Public Notice, Public Participation, and Proposed Agency Action. The permittee shall comply with all of the requirements for public notice, public participation, and proposed agency action pursuant to Rules 62-110.106 and 62-210.350, F.A.C.

[Rules 62-110.106, 62-210.350 and 62-213.430(1)(b), F.A.C.]

16. Administrative Hearing. The permittee shall comply with all of the requirements for a petition for administrative hearing or waiver of right to administrative proceeding pursuant to Rules 28-106.201, 28-106.301 and 62-110.106, F.A.C.

[Rules 28-106.201, 28-106.301 and 62-110.106, F.A.C.]

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

Chapter 62-204, F.A.C.

17. **Asbestos.** This permit does not authorize any demolition or renovation of the facility or its parts or components which involves asbestos removal. This permit does not constitute a waiver of any of the requirements of Chapter 62-257, F.A.C., and 40 CFR 61, Subpart M, National Emission Standard for Asbestos, adopted and incorporated by reference in Rule 62-204.800, F.A.C.

Compliance with Chapter 62-257, F.A.C., and 40 CFR 61, Subpart M, Section 61.145, is required for any asbestos demolition or renovation at the source.

[40 CFR 61; Rule 62-204.800, F.A.C.; and, Chapter 62-257, F.A.C.]

Chapter 62-210, F.A.C.

18. **Permits Required.** Unless exempted from permitting pursuant to Rule 62-210.300(3)(a) or (b), F.A.C., or Rule 62-4.040, F.A.C., or unless specifically authorized by provision of Rule 62-210.300(4), F.A.C., or Rule 62-213.300, F.A.C., the owner or operator of any facility or emissions unit which emits or can reasonably be expected to emit any air pollutant shall obtain an appropriate permit from the Department prior to beginning construction, reconstruction pursuant to 40 CFR 60.15 or 63.2, modification, or the addition of pollution control equipment; or to authorize initial or continued operation of the emissions unit; or to establish a PAL or Air Emissions Bubble. All emissions limitations, controls, and other requirements imposed by such permits shall be at least as stringent as any applicable limitations and requirements contained in or enforceable under the State Implementation Plan (SIP) or that are otherwise federally enforceable. Except as provided at Rule 62-213.460, F.A.C., issuance of a permit does not relieve the owner or operator of a facility or an emissions unit from complying with any applicable requirements, any emission limiting standards or other requirements of the air pollution rules of the Department or any other such requirements under federal, state, or local law.

(1) Air Construction Permits.

(a) Unless exempt from permitting pursuant to Rule 62-210.300(3)(a) or (b), F.A.C., or Rule 62-4.040, F.A.C., an air construction permit shall be obtained by the owner or operator of any proposed new, reconstructed, or modified facility or emissions unit, or any new pollution control equipment prior to the beginning of construction, reconstruction pursuant to 40 CFR 60.15 or 63.2, or modification of the facility or emissions unit or addition of the pollution control equipment; or to establish a PAL; in accordance with all applicable provisions of Chapter 62-210, F.A.C., Chapter 62-212, F.A.C., and Chapter 62-4, F.A.C. Except as provided under Rule 62-213.415, F.A.C., the owner or operator of any facility seeking to create or change an air emissions bubble shall obtain an air construction permit in accordance with all the applicable provisions of Chapter 62-210, F.A.C., Chapters 62-212 and 62-4, F.A.C. The construction permit shall be issued for a period of time sufficient to allow construction, reconstruction or modification of the facility or emissions unit or addition of the air pollution control equipment; and operation while the owner or operator of the new, reconstructed or modified facility or emissions unit or the new pollution control equipment is conducting tests or otherwise demonstrating initial compliance with the conditions of the construction permit.

(b) Notwithstanding the expiration of an air construction permit, all limitations and requirements of such permit that are applicable to the design and operation of the permitted facility or emissions unit shall remain in effect until the facility or emissions unit is permanently shut down, except for any such limitation or requirement that is obsolete by its nature (such as a requirement for initial compliance testing) or any such limitation or requirement that is changed in accordance with the provisions of Rule 62-210.300(1)(b)1., F.A.C. Either the applicant or the Department can propose that certain conditions be considered obsolete. Any conditions or language in an air construction permit that are included for informational purposes only, if they are transferred to the air operation permit, shall be transferred for informational purposes only and shall not become enforceable conditions unless voluntarily agreed to by the permittee or otherwise required under Department rules.

1. Except for those limitations or requirements that are obsolete, all limitations and requirements of an air construction permit shall be included and identified in any air operation permit for the facility or emissions unit. The limitations and requirements included in the air operation permit can be changed, and thereby superseded, through the issuance of an air construction permit, federally enforceable state air operation permit, federally enforceable air general permit, or Title V air operation permit; provided, however, that:

a. Any change that would constitute an administrative correction may be made pursuant to Rule 62-210.360, F.A.C.;

b. Any change that would constitute a modification, as defined at Rule 62-210.200, F.A.C., shall be accomplished only through the issuance of an air construction permit; and

c. Any change in a permit limitation or requirement that originates from a permit issued pursuant to 40 CFR 52.21, Rule 62-204.800(1)(d)2., F.A.C., Rule 62-212.400, F.A.C., Rule 62-212.500, F.A.C., or any former codification of Rule 62-212.400 or Rule 62-212.500, F.A.C., shall be accomplished only through the issuance of a new or revised air construction permit under Rule 62-204.800(1)(d)2., Rule 62-212.400 or Rule 62-212.500, F.A.C., as appropriate.

2. The force and effect of any change in a permit limitation or requirement made in accordance with the provisions of Rule 62-210.300(1)(b)1., F.A.C., shall be the same as if such change were made to the original air construction permit.

3. Nothing in Rule 62-210.300(1)(b), F.A.C., shall be construed as to allow operation of a facility or emissions unit without a valid air operation permit.

(2) Air Operation Permits. Upon expiration of the air operation permit for any existing facility or emissions unit, subsequent to construction or modification, or subsequent to the creation of or change to a bubble, and demonstration of compliance with the conditions of the construction permit for any new or modified facility or emissions unit, any air emissions bubble, or as otherwise provided in Chapter 62-210, F.A.C., or Chapter 62-213, F.A.C., the owner or operator of such facility or emissions unit shall obtain a renewal air operation permit, an initial air operation permit or air general permit, or an administrative correction or revision of an existing air operation permit, whichever is appropriate, in accordance with all applicable provisions of Chapter 62-210, F.A.C., Chapter 62-213, F.A.C., and Chapter 62-4, F.A.C.

(a) Minimum Requirements for All Air Operation Permits. At a minimum, a permit issued pursuant to this subsection shall:

1. Specify the manner, nature, volume and frequency of the emissions permitted, and the applicable emission limiting standards or performance standards, if any;
2. Require proper operation and maintenance of any pollution control equipment by qualified personnel, where applicable in accordance with the provisions of any operation and maintenance plan required by the air pollution rules of the Department.
3. Contain an effective date stated in the permit which shall not be earlier than the date final action is taken on the application and be issued for a period, beginning on the effective date, as provided below.

a. The operation permit for an emissions unit which is in compliance with all applicable rules and in operational condition, and which the owner or operator intends to continue operating, shall be issued or renewed for a five-year period, except that, for Title V sources subject to Rule 62-213.420(1)(a)1., F.A.C., operation permits shall be extended until 60 days after the due date for submittal of the facility's Title V permit application as specified in Rule 62-213.420(1)(a)1., F.A.C.

b. Except as provided in Rule 62-210.300(2)(a)3.d., F.A.C., the operation permit for an emissions unit which has been shut down for six months or more prior to the expiration date of the current operation permit, shall be renewed for a period not to exceed five years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided:

- (i) the owner or operator of the emissions unit demonstrates to the Department that the emissions unit may need to be reactivated and used, or that it is the owner's or operator's intent to apply to the Department for a permit to construct a new emissions unit at the facility before the end of the extension period; and
- (ii) the owner or operator of the emissions unit agrees to and is legally prohibited from providing the allowable emission permitted by the renewed permit as an emissions offset to any other person under Rule 62-212.500, F.A.C.; and
- (iii) the emissions unit was operating in compliance with all applicable rules as of the time the source was shut down.

c. Except as provided in Rule 62-210.300(2)(a)3.d., F.A.C., the operation permit for an emissions unit which has been shut down for five years or more prior to the expiration date of the current operation permit shall be renewed for a maximum period not to exceed ten years from the date of shutdown, even if the emissions unit is not maintained in operational condition, provided the conditions given in Rule 62-210.300(2)(a)3.b., F.A.C., are met and the owner or operator demonstrates to the Department that failure to renew the permit would constitute a hardship, which may include economic hardship.

d. The operation permit for an electric utility generating unit on cold standby or long-term reserve shutdown shall be renewed for a five-year period, and additional five-year periods, even if the unit is not maintained in operational condition, provided the conditions given in Rules 62-210.300(2)(a)3.b.(i) through (iii), F.A.C., are met.

4. In the case of an emissions unit permitted pursuant to Rules 62-210.300(2)(a)3.b., c., and d., F.A.C., include reasonable notification and compliance testing requirements for reactivation of such emissions unit and provide that the owner or operator demonstrate to the Department prior to reactivation that such reactivation would not constitute reconstruction pursuant to Rule 62-204.800(8), F.A.C.

[Rules 62-210.300(1) & (2), F.A.C.]

19. **Not federally enforceable.** Notification of Startup. The owners or operator of any emissions unit or facility which has a valid air operation permit which has been shut down more than one year, shall notify the Department in writing of the intent to start up such emissions unit or facility, a minimum of 60 days prior to the intended startup date.

- (a) The notification shall include information as to the startup date, anticipated emission rates or pollutants released, changes to processes or control devices which will result in changes to emission rates, and any other conditions which may differ from the valid outstanding operation permit.

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

(b) If, due to an emergency, a startup date is not known 60 days prior thereto, the owner shall notify the Department as soon as possible after the date of such startup is ascertained.

[Rule 62-210.300(5), F.A.C.]

20. Emissions Unit Reclassification.

(a) Any emissions unit whose operation permit has been revoked as provided for in Chapter 62-4, F.A.C., shall be deemed permanently shut down for purposes of Rule 62-212.500, F.A.C. Any emissions unit whose permit to operate has expired without timely renewal or transfer may be deemed permanently shut down, provided, however, that no such emissions unit shall be deemed permanently shut down if, within 20 days after receipt of written notice from the Department, the emissions unit owner or operator demonstrates that the permit expiration resulted from inadvertent failure to comply with the requirements of Rule 62-4.090, F.A.C., and that the owner or operator intends to continue the emissions unit in operation, and either submits an application for an air operation permit or complies with permit transfer requirements, if applicable.

(b) If the owner or operator of an emissions unit which is so permanently shut down, applies to the Department for a permit to reactivate or operate such emissions unit, the emissions unit will be reviewed and permitted as a new emissions unit.

[Rule 62-210.300(6), F.A.C.]

21. Transfer of Air Permits.

(a) An air permit is transferable only after submission of an Application for Transfer of Air Permit (DEP Form 62-210.900(7)) and Department approval in accordance with Rule 62-4.120, F.A.C. For Title V permit transfers only, a complete application for transfer of air permit shall include the requirements of 40 CFR 70.7(d)(1)(iv), adopted and incorporated by reference at Rule 62-204.800, F.A.C. Within 30 days after approval of the transfer of permit, the Department shall update the permit by an administrative permit correction pursuant to Rule 62-210.360, F.A.C.

(b) For an air general permit, the provision of Rules 62-210.300(7)(a) and 62-4.120, F.A.C., do not apply. Thirty (30) days before using an air general permit, the new owner must submit an air general permit notification to the Department in accordance with Rule 62-210.300(4), F.A.C., or Rule 62-213.300(2)(b), F.A.C.

[Rule 62-210.300(7), F.A.C.]

22. Public Notice and Comment.

(1) Public Notice of Proposed Agency Action.

(a) A notice of proposed agency action on permit application, where the proposed agency action is to issue the permit, shall be published by any applicant for:

1. An air construction permit;
2. An air operation permit, permit renewal or permit revision subject to Rule 62-210.300(2)(b), F.A.C., (i.e., a FESOP), except as provided in Rule 62-210.300(2)(b)1.b., F.A.C.; or
3. An air operation permit, permit renewal, or permit revision subject to Chapter 62-213, F.A.C., except Title V air general permits or those permit revisions meeting the requirements of Rule 62-213.412(1), F.A.C.

(b) The notice required by Rule 62-210.350(1)(a), F.A.C., shall be published in accordance with all otherwise applicable provisions of Rule 62-110.106, F.A.C. A public notice under Rule 62-210.350(1)(a)1., F.A.C., for an air construction permit may be combined with any required public notice under Rule 62-210.350(1)(a)2. or 3., F.A.C., for air operation permits. If such notices are combined, the public notice must comply with the requirements for both notices.

(c) Except as otherwise provided at Rules 62-210.350(2), (5), and (6), F.A.C., each notice of intent to issue an air construction permit shall provide a 14-day period for submittal of public comments.

(2) Additional Public Notice Requirements for Emissions Units Subject to Prevention of Significant Deterioration or Nonattainment - Area Preconstruction Review.

(a) Before taking final agency action on a construction permit application for any proposed new or modified facility or emissions unit subject to the preconstruction review requirements of Rule 62-212.400 or 62-212.500, F.A.C., the Department shall comply with all applicable provisions of Rule 62-110.106, F.A.C., and provide an opportunity for public comment which shall include as a minimum the following:

1. A complete file available for public inspection in at least one location in the district affected which includes the information submitted by the owner or operator, exclusive of confidential records under Section 403.111, F.S., and the Department's analysis of the effect of the proposed construction or modification on ambient air quality, including the Department's preliminary determination of whether the permit should be approved or disapproved;
2. A 30-day period for submittal of public comments; and

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

3. A notice, by advertisement in a newspaper of general circulation in the county affected, specifying the nature and location of the proposed facility or emissions unit, whether BACT or LAER has been determined, the degree of PSD increment consumption expected, if applicable, and the location of the information specified in paragraph 1. above; and notifying the public of the opportunity for submitting comments and requesting a public hearing.
- (b) The notice provided for in Rule 62-210.350(2)(a)3., F.A.C., shall be prepared by the Department and published by the applicant in accordance with all applicable provisions of Rule 62-110.106, F.A.C., except that the applicant shall cause the notice to be published no later than thirty (30) days prior to final agency action.
 - (c) A copy of the notice provided for in Rule 62-210.350(2)(a)3., F.A.C., shall also be sent by the Department to the Regional Office of the U. S. Environmental Protection Agency and to all other state and local officials or agencies having cognizance over the location of such new or modified facility or emissions unit, including local air pollution control agencies, chief executives of city or county government, regional land use planning agencies, and any other state, Federal Land Manager, or Indian Governing Body whose lands may be affected by emissions from the new or modified facility or emissions unit.
 - (d) A copy of the notice provided for in Rule 62-210.350(2)(a)3., F.A.C., shall be displayed in the appropriate district, branch and local program offices.
 - (e) An opportunity for public hearing shall be provided in accordance with Chapter 120, F.S., and Rule 62-110.106, F.A.C.
 - (f) Any public comments received shall be made available for public inspection in the location where the information specified in Rule 62-210.350(2)(a)1., F.A.C., is available and shall be considered by the Department in making a final determination to approve or deny the permit.
 - (g) The final determination shall be made available for public inspection at the same location where the information specified in Rule 62-210.350(2)(a)1., F.A.C., was made available.
 - (h) For a proposed new or modified emissions unit which would be located within 100 kilometers of any Federal Class I area or whose emissions may affect any Federal Class I area, and which would be subject to the preconstruction review requirements of Rule 62-212.400 or 62-212.500, F.A.C.:
 - 1. The Department shall mail or transmit to the Administrator a copy of the initial application for an air construction permit and notice of every action related to the consideration of the permit application.
 - 2. The Department shall mail or transmit to the Federal Land Manager of each affected Class I area a copy of any written notice of intent to apply for an air construction permit; the initial application for an air construction permit, including all required analyses and demonstrations; any subsequently submitted information related to the application; the preliminary determination and notice of proposed agency action on the permit application; and any petition for an administrative hearing regarding the application or the Department's proposed action. Each such document shall be mailed or transmitted to the Federal Land Manager within fourteen (14) days after its receipt by the Department.
- (3) Additional Public Notice Requirements for Facilities Subject to Operation Permits for Title V Sources.
- (a) Before taking final agency action to issue a new, renewed, or revised air operation permit subject to Chapter 62-213, F.A.C., the Department shall comply with all applicable provisions of Rule 62-110.106, F.A.C., and provide an opportunity for public comment which shall include as a minimum the following:
 - 1. A complete file available for public inspection in at least one location in the district affected which includes the information submitted by the owner or operator, exclusive of confidential records under Section 403.111, F.S.; and
 - 2. A 30-day period for submittal of public comments.
 - (b) The notice provided for in Rule 62-210.350(3)(a), F.A.C., shall be prepared by the Department and published by the applicant in accordance with all applicable provisions of Rule 62-110.106, F.A.C., except that the applicant shall cause the notice to be published no later than thirty (30) days prior to final agency action. If written comments received during the 30-day comment period on a draft permit result in the Department's issuance of a revised draft permit in accordance with Rule 62-213.430(1), F.A.C., the Department shall require the applicant to publish another public notice in accordance with Rule 62-210.350(1)(a), F.A.C.
 - (c) The notice shall identify:
 - 1. The facility;
 - 2. The name and address of the office at which processing of the permit occurs;
 - 3. The activity or activities involved in the permit action;
 - 4. The emissions change involved in any permit revision;
 - 5. The name, address, and telephone number of a Department representative from whom interested persons may obtain additional information, including copies of the permit draft, the application, and all relevant supporting materials, including any permit application, compliance plan, permit, monitoring report, and compliance statement required pursuant to Chapter 62-213, F.A.C. (except for information entitled to confidential treatment pursuant to Section 403.111, F.S.), and all other materials available to the Department that are relevant to the permit decision;

6. A brief description of the comment procedures required by Rule 62-210.350(3), F.A.C.;
7. The time and place of any hearing that may be held, including a statement of procedure to request a hearing (unless a hearing has already been scheduled); and
8. The procedures by which persons may petition the Administrator to object to the issuance of the proposed permit after expiration of the Administrator's 45-day review period.

[Rules 62-210.350(1) thru (3), F.A.C.]

23. Administrative Permit Corrections.

(1) A facility owner shall notify the Department by letter of minor corrections to information contained in a permit. Such notifications shall include:

- (a) Typographical errors noted in the permit;
- (b) Name, address or phone number change from that in the permit;
- (c) A change requiring more frequent monitoring or reporting by the permittee;
- (d) A change in ownership or operational control of a facility, subject to the following provisions:
 1. The Department determines that no other change in the permit is necessary;
 2. The permittee and proposed new permittee have submitted an Application for Transfer of Air Permit, and the Department has approved the transfer pursuant to Rule 62-210.300(7), F.A.C.; and
 3. The new permittee has notified the Department of the effective date of sale or legal transfer.
- (e) Changes listed at 40 CFR 72.83(a)(1), (2), (6), (9) and (10), adopted and incorporated by reference at Rule 62-204.800, F.A.C., and changes made pursuant to Rules 62-214.340(1) and (2), F.A.C., to Title V sources subject to emissions limitations or reductions pursuant to 42 USC ss. 7651-7651o;
- (f) Changes listed at 40 CFR 72.83(a)(11) and (12), adopted and incorporated by reference at Rule 62-204.800, F.A.C., to Title V sources subject to emissions limitations or reductions pursuant to 42 USC ss. 7651-7651o, provided the notification is accompanied by a copy of any EPA determination concerning the similarity of the change to those listed at Rule 62-210.360(1)(e), F.A.C.; and
- (g) Any other similar minor administrative change at the source.

(2) Upon receipt of any such notification, the Department shall within 60 days correct the permit and provide a corrected copy to the owner.

(3) After first notifying the owner, the Department shall correct any permit in which it discovers errors of the types listed at Rules 62-210.360(1)(a) and (b), F.A.C., and provide a corrected copy to the owner.

(4) For Title V source permits, other than general permits, a copy of the corrected permit shall be provided to EPA and any approved local air program in the county where the facility or any part of the facility is located.

[Rule 62-210.360, F.A.C.]

24. Emissions Computation and Reporting.

(1) Applicability. This rule sets forth required methodologies to be used by the owner or operator of a facility for computing actual emissions, baseline actual emissions, and net emissions increase, as defined at Rule 62-210.200, F.A.C., and for computing emissions for purposes of the reporting requirements of subsection 62-210.370(3) and paragraph 62-212.300(1)(e), F.A.C., or of any permit condition that requires emissions be computed in accordance with this rule. This rule is not intended to establish methodologies for determining compliance with the emission limitations of any air permit.

(2) Computation of Emissions. For any of the purposes set forth in subsection 62-210.370(1), F.A.C., the owner or operator of a facility shall compute emissions in accordance with the requirements set forth in this subsection.

(a) Basic Approach. The owner or operator shall employ, on a pollutant-specific basis, the most accurate of the approaches set forth below to compute the emissions of a pollutant from an emissions unit; provided, however, that nothing in this rule shall be construed to require installation and operation of any continuous emissions monitoring system (CEMS), continuous parameter monitoring system (CPMS), or predictive emissions monitoring system (PEMS) not otherwise required by rule or permit, nor shall anything in this rule be construed to require performance of any stack testing not otherwise required by rule or permit.

1. If the emissions unit is equipped with a CEMS meeting the requirements of paragraph 62-210.370(2)(b), F.A.C., the owner or operator shall use such CEMS to compute the emissions of the pollutant, unless the owner or operator demonstrates to the department that an alternative approach is more accurate because the CEMS represents still-emerging technology.

2. If a CEMS is not available or does not meet the requirements of paragraph 62-210.370(2)(b), F.A.C., but emissions of the pollutant can be computed pursuant to the mass balance methodology of paragraph 62-210.370(2)(c), F.A.C., the owner or operator shall use such methodology, unless the owner or operator demonstrates to the department that an alternative approach is more accurate.

3. If a CEMS is not available or does not meet the requirements of paragraph 62-210.370(2)(b), F.A.C., and emissions cannot be computed pursuant to the mass balance methodology, the owner or operator shall use an emission factor meeting the requirements of paragraph 62-210.370(2)(d), F.A.C., unless the owner or operator demonstrates to the department that an alternative approach is more accurate.

(b) Continuous Emissions Monitoring System (CEMS).

1. An owner or operator may use a CEMS to compute emissions of a pollutant for purposes of this rule provided:

- a. The CEMS complies with the applicable certification and quality assurance requirements of 40 CFR Part 60, Appendices B and F, or, for an acid rain unit, the certification and quality assurance requirements of 40 CFR Part 75, all adopted by reference at Rule 62-204.800, F.A.C.; or

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

- b. The owner or operator demonstrates that the CEMS otherwise represents the most accurate means of computing emissions for purposes of this rule.
 2. Stack gas volumetric flow rates used with the CEMS to compute emissions shall be obtained by the most accurate of the following methods as demonstrated by the owner or operator:
 - a. A calibrated flowmeter that records data on a continuous basis, if available; or
 - b. The average flow rate of all valid stack tests conducted during a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
 3. The owner or operator may use CEMS data in combination with an appropriate f-factor, heat input data, and any other necessary parameters to compute emissions if such method is demonstrated by the owner or operator to be more accurate than using a stack gas volumetric flow rate as set forth at subparagraph 62-210.370(2)(b)2., F.A.C., above.
 - (c) Mass Balance Calculations.
 1. An owner or operator may use mass balance calculations to compute emissions of a pollutant for purposes of this rule provided the owner or operator:
 - a. Demonstrates a means of validating the content of the pollutant that is contained in or created by all materials or fuels used in or at the emissions unit; and
 - b. Assumes that the emissions unit emits all of the pollutant that is contained in or created by any material or fuel used in or at the emissions unit if it cannot otherwise be accounted for in the process or in the capture and destruction of the pollutant by the unit's air pollution control equipment.
 2. Where the vendor of a raw material or fuel which is used in or at the emissions unit publishes a range of pollutant content from such material or fuel, the owner or operator shall use the highest value of the range to compute the emissions, unless the owner or operator demonstrates using site-specific data that another content within the range is more accurate.
 3. In the case of an emissions unit using coatings or solvents, the owner or operator shall document, through purchase receipts, records and sales receipts, the beginning and ending VOC inventories, the amount of VOC purchased during the computational period, and the amount of VOC disposed of in the liquid phase during such period.
 - (d) Emission Factors.
 1. An owner or operator may use an emission factor to compute emissions of a pollutant for purposes of this rule provided the emission factor is based on site-specific data such as stack test data, where available, unless the owner or operator demonstrates to the department that an alternative emission factor is more accurate. An owner or operator using site-specific data to derive an emission factor, or set of factors, shall meet the following requirements.
 - a. If stack test data are used, the emission factor shall be based on the average emissions per unit of input, output, or gas volume, whichever is appropriate, of all valid stack tests conducted during at least a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
 - b. Multiple emission factors shall be used as necessary to account for variations in emission rate associated with variations in the emissions unit's operating rate or operating conditions during the period over which emissions are computed.
 - c. The owner or operator shall compute emissions by multiplying the appropriate emission factor by the appropriate input, output or gas volume value for the period over which the emissions are computed. The owner or operator shall not compute emissions by converting an emission factor to pounds per hour and then multiplying by hours of operation, unless the owner or operator demonstrates that such computation is the most accurate method available.
 2. If site-specific data are not available to derive an emission factor, the owner or operator may use a published emission factor directly applicable to the process for which emissions are computed. If no directly-applicable emission factor is available, the owner or operator may use a factor based on a similar, but different, process.
 - (e) Accounting for Emissions During Periods of Missing Data from CEMS, PEMS, or CPMS. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of missing data from CEMS, PEMS, or CPMS using other site-specific data to generate a reasonable estimate of such emissions.
 - (f) Accounting for Emissions During Periods of Startup and Shutdown. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of startup and shutdown of the emissions unit.
 - (g) Fugitive Emissions. In computing the emissions of a pollutant from a facility or emissions unit, the owner or operator shall account for the fugitive emissions of the pollutant, to the extent quantifiable, associated with such facility or emissions unit.
 - (h) Recordkeeping. The owner or operator shall retain a copy of all records used to compute emissions pursuant to this rule for a period of five years from the date on which such emissions information is submitted to the department for any regulatory purpose.
- (3) Annual Operating Report for Air Pollutant Emitting Facility.
 - (a) The Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be completed each year.
 - (c) The annual operating report shall be submitted to the appropriate Department of Environmental Protection (DEP) division, district or DEP-approved local air pollution control program office by March 1 of the following year.
 - (d) Beginning with 2007 annual emissions, emissions shall be computed in accordance with the provisions of Rule 62-210.370(2), F.A.C., for purposes of the annual operating report.
- [Rules 62-210.370(1), (2) and (3)(a), (c) & (d), F.A.C.]

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

25. Circumvention. No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.

[Rule 62-210.650, F.A.C.]

26. Forms and Instructions. The forms used by the Department in the stationary source control program are adopted and incorporated by reference in this section. The forms are listed by rule number, which is also the form number, with the subject, title and effective date. Copies of forms may be obtained by writing to the Department of Environmental Protection, Division of Air Resource Management, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, or by accessing the Division's website at www.dep.state.fl.us/air. The requirement of Rule 62-4.050(2), F.A.C., to file application forms in quadruplicate is waived if an air permit application is submitted using the Department's electronic application form.

(1) Application for Air Permit - Long Form, Form and Instructions (Effective 02-02-2006).

(a) Acid Rain Part, Form and Instructions (Effective 06-16-2003).

1. Repowering Extension Plan, Form and Instructions (Effective 07/01/1995).

2. New Unit Exemption, Form and Instructions (Effective 04/16/2001).

3. Retired Unit Exemption, Form and Instructions (Effective 04/16/2001).

4. Phase II NOx Compliance Plan, Form and Instructions (Effective 01/06/1998).

5. Phase II NOx Averaging Plan, Form (Effective 01/06/1998).

(b) Reserved.

(5) Annual Operating Report for Air Pollutant Emitting Facility, Form and Instructions (Effective 02/11/1999).

(7) Application for Transfer of Air Permit - Title V Source, (Effective 04/16/2001).

[Rule 62-210.900, F.A.C.]

Chapter 62-213, F.A.C.

27. Responsible Official.

(1) Each Title V source must identify a responsible official on each application for Title V permit, permit revision, and permit renewal. For sources with only one responsible official, this is how the Title V source designates the responsible official.

(2) Each Title V source may designate more than one responsible official, provided a primary responsible official is designated as responsible for the certifications of all other designated responsible officials. Any action taken by the primary responsible official shall take precedence over any action taken by any other designated responsible official.

(3) Any facility initially designating more than one responsible official or changing the list of responsible officials must submit a Responsible Official Notification Form (DEP Form No. 62-213.900(8)) designating all responsible officials for a Title V source, stating which responsible official is the primary responsible official, and providing an effective date for any changes to the list of responsible officials. Each individual listed on the Responsible Official Notification Form must meet the definition of responsible official given at Rule 62-210.200, F.A.C.

(4) A Title V source with only one responsible official shall submit DEP Form No. 62-213.900(8) for a change in responsible official.

(5) No person shall take any action as a responsible official at a Title V source unless designated a responsible official as required by this rule, except that the existing responsible official of any Title V source which has a change in responsible official during the term of the permit and before the effective date of this rule may continue to act as a responsible official until the first submittal of DEP Form No. 62-213.900(8) or the next application for Title V permit, permit revision or permit renewal, whichever comes first.

[Rules 62-213.202(1) thru (5), F.A.C.]

28. Annual Emissions Fee. Each Title V source permitted to operate in Florida must pay between January 15 and March 1 of each year, upon written notice from the Department, an annual emissions fee in an amount determined as set forth in Rule 62-213.205(1), F.A.C.

(1)(g) If the Department has not received the fee by February 15 of the year following the calendar year for which the fee is calculated, the Department will send the primary responsible official of the Title V source a written warning of the consequences for failing to pay the fee by March 1. If the fee is not postmarked by March 1 of the year due, the Department shall impose, in addition to the fee, a penalty of 50 percent of the amount of the fee unpaid plus interest on such amount computed in accordance with Section 220.807, F.S. If the Department determines that a submitted fee was inaccurately calculated, the Department shall either refund to the permittee any amount overpaid or notify the permittee of any amount underpaid. The Department shall not impose a penalty or interest on any amount underpaid, provided that the permittee has timely remitted payment of at least 90 percent of the amount determined to be due and remits full payment within 60 days after receipt of notice of the amount underpaid. The Department shall waive the collection of underpayment and shall not refund overpayment of the fee, if the amount is less than 1 percent of the fee due, up to \$50.00. The Department shall make every effort to provide a timely assessment of the adequacy of the submitted fee. Failure to

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

pay timely any required annual emissions fee, penalty, or interest constitutes grounds for permit revocation pursuant to Rule 62-4.100, F.A.C.

(1)(i) Any documentation of actual hours of operation, actual material or heat input, actual production amount, or actual emissions used to calculate the annual emissions fee shall be retained by the owner for a minimum of five (5) years and shall be made available to the Department upon request.

(1)(j) A completed DEP Form 62-213.900(1), "Major Air Pollution Source Annual Emissions Fee Form", must be submitted by a responsible official with the annual emissions fee.

[Rules 62-213.205, (1)(g), (1)(i) & (1)(j), F.A.C.]

29. Reserved.

30. Reserved.

31. Air Operation Permit Fees. No permit application processing fee, renewal fee, modification fee or amendment fee is required for an operation permit for a Title V source.

[Rule 62-213.205(4), F.A.C.]

32. Permits and Permit Revisions Required. All Title V sources are subject to the permit requirements of Chapter 62-213, F.A.C., except those Title V sources permittable pursuant to Rule 62-213.300, F.A.C., Title V Air General Permits.

(1) No Title V source may operate except in compliance with Chapter 62-213, F.A.C.

(2) Except as provided in Rule 62-213.410, F.A.C., no source with a permit issued under the provisions of Chapter 62-213, F.A.C., shall make any changes in its operation without first applying for and receiving a permit revision if the change meets any of the following:

- (a) Constitutes a modification;
- (b) Violates any applicable requirement;
- (c) Exceeds the allowable emissions of any air pollutant from any unit within the source;
- (d) Contravenes any permit term or condition for monitoring, testing, recordkeeping, reporting or of a compliance certification requirement;
- (e) Requires a case-by-case determination of an emission limitation or other standard or a source specific determination of ambient impacts, or a visibility or increment analysis under the provisions of Chapter 62-212 or 62-296, F.A.C.;
- (f) Violates a permit term or condition which the source has assumed for which there is no corresponding underlying applicable requirement to which the source would otherwise be subject;
- (g) Results in the trading of emissions among units within a source except as specifically authorized pursuant to Rule 62-213.415, F.A.C.;
- (h) Results in the change of location of any relocatable facility identified as a Title V source pursuant to paragraph (a)-(e), (g) or (h) of the definition of "major source of air pollution" at Rule 62-210.200, F.A.C.;
- (i) Constitutes a change at an Acid Rain Source under the provisions of 40 CFR 72.81(a)(1), (2), or (3), (b)(1) or (b)(3), hereby incorporated by reference;
- (j) Constitutes a change in a repowering plan, nitrogen oxides averaging plan, or nitrogen oxides compliance deadline extension at an Acid Rain Source;

[Rules 62-213.400(1) & (2), F.A.C.]

33. Changes Without Permit Revision. Title V sources having a valid permit issued pursuant to Chapter 62-213, F.A.C., may make the following changes without permit revision, provided that sources shall maintain source logs or records to verify periods of operation:

- (1) Permitted sources may change among those alternative methods of operation;
- (2) A permitted source may implement operating changes, as defined in Rule 62-210.200, F.A.C., after the source submits any forms required by any applicable requirement and provides the Department and EPA with at least 7 days written notice prior to implementation. The source and the Department shall attach each notice to the relevant permit.
 - (a) The written notice shall include the date on which the change will occur, and a description of the change within the permitted source, the pollutants emitted and any change in emissions, and any term or condition becoming applicable or no longer applicable as a result of the change;
 - (b) The permit shield described in Rule 62-213.460, F.A.C., shall not apply to such changes;
- (3) Permitted sources may implement changes involving modes of operation only in accordance with Rule 62-213.415, F.A.C.

[Rule 62-213.410, F.A.C.]

34. Immediate Implementation Pending Revision Process.

(1) Those permitted Title V sources making any change that constitutes a modification pursuant to the definition of modification at Rule 62-210.200, F.A.C., but which would not constitute a modification pursuant to 42 USC 7412(a) or to 40 CFR 52.01, 60.2, or 61.15, adopted and incorporated by reference at Rule 62-204.800, F.A.C., may implement such change prior to final issuance of a permit revision, provided the change:

- (a) Does not violate any applicable requirement;
- (b) Does not contravene any permit term or condition for monitoring, testing, recordkeeping or reporting, or any compliance certification requirement;
- (c) Does not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination of ambient impacts, or a visibility or increment analysis under the provisions of Chapter 62-212 or 62-296, F.A.C.;
- (d) Does not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and which the source has assumed to avoid an applicable requirement to which the source would otherwise be subject including any federally enforceable emissions cap or federally enforceable alternative emissions limit.

(2) A Title V source may immediately implement such changes after they have been incorporated into the terms and conditions of a new or revised construction permit issued pursuant to Chapter 62-212, F.A.C., and after the source provides to EPA, the Department, each affected state and any approved local air program having geographic jurisdiction over the source, a copy of the source's application for operation permit revision. The Title V source may conform its application for construction permit to include all information required by Rule 62-213.420, F.A.C., in lieu of submitting separate application forms.

(3) The Department shall process the application for operation permit revision in accordance with the provisions of Chapter 62-213, F.A.C., except that the Department shall issue a draft permit revision or a determination to deny the revision within 60 days of receipt of a complete application for operation permit revision or, if the Title V source has submitted a construction permit application conforming to the requirements of Rule 62-213.420, F.A.C., the Department shall issue a draft permit or a determination to deny the revision at the same time the Department issues its determination on issuance or denial of the construction permit application. The Department shall not take final action on the operation permit revision application until all the requirements of Rules 62-213.430(1)(a), (c), (d), and (e), F.A.C., have been complied with.

(4) Pending final action on the operation permit revision application, the source shall implement the changes in accordance with the terms and conditions of the source's new or revised construction permit. If any terms and conditions of the new or revised construction permit have not been complied with prior to the issuance of the draft operation permit revision, the operation permit shall include a compliance plan in accordance with the provisions of Rule 62-213.440(2), F.A.C.

(5) The permit shield described in Rule 62-213.460, F.A.C., shall not apply to such changes until after the Department takes final action to issue the operation permit revision.

(6) If the Department denies the source's application for operation permit revision, the source shall cease implementation of the proposed changes.

[Rule 62-213.412, F.A.C.]

35. Permit Applications.

(1) **Duty to Apply.** For each Title V source, the owner or operator shall submit a timely and complete permit application in compliance with the requirements of Rules 62-213.420, F.A.C., and Rules 62-4.050(1) through (3), F.A.C.

(a) Timely Application.

3. For purposes of permit renewal, a timely application is one that is submitted in accordance with Rule 62-4.090, F.A.C.

(b) Complete Application.

1. Any applicant for a Title V permit, permit revision or permit renewal must submit an application on DEP Form No. 62-210.900(1), which must include all the information specified by Rule 62-213.420(3), F.A.C., except that an application for permit revision must contain only that information related to the proposed change(s) from the currently effective Title V permit and any other requirements that become applicable at the time of application. The applicant shall include information concerning fugitive emissions and stack emissions in the application. Each application for permit, permit revision or permit renewal shall be certified by a responsible official in accordance with Rule 62-213.420(4), F.A.C.

2. For those applicants submitting initial permit applications pursuant to Rule 62-213.420(1)(a)1., F.A.C., a complete application shall be an application that substantially addresses all the information required by the application form number 62-210.900(1), and such applications shall be deemed complete within sixty days of receipt of a signed and certified application unless the Department notifies the applicant of incompleteness within that time. For all other applicants, the applications shall be deemed complete sixty days after receipt, unless the Department, within sixty days after receipt of a signed application for permit, permit revision or permit renewal, requests additional documentation or information needed

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

to process the application. An applicant making timely and complete application for permit, or timely application for permit renewal as described by Rule 62-4.090(1), F.A.C., shall continue to operate the source under the authority and provisions of any existing valid permit or Florida Electrical Power Plant Siting Certification, and in accordance with applicable requirements of the Acid Rain Program, until the conclusion of proceedings associated with its permit application or until the new permit becomes effective, whichever is later, provided the applicant complies with all the provisions of Rules 62-213.420(1)(b)3. and 4., F.A.C. Failure of the Department to request additional information within sixty days of receipt of a properly signed application shall not impair the Department's ability to request additional information pursuant to Rules 62-213.420(1)(b)3. and 4., F.A.C.

3. For those permit applications submitted pursuant to the provisions of Rule 62-213.420(1)(a)1., F.A.C., the Department shall notify the applicant if the Department becomes aware at any time during processing of the application that the application contains incorrect or incomplete information. The applicant shall submit the corrected or supplementary information to the Department within ninety days unless the applicant has requested and been granted additional time to submit the information. Failure of an applicant to submit corrected or supplementary information requested by the Department within ninety days or such additional time as requested and granted shall render the application incomplete.

4. For all applications other than those addressed at Rule 62-213.420(1)(b)3., F.A.C., should the Department become aware, during processing of any application that the application contains incorrect information, or should the Department become aware, as a result of comment from an affected State, an approved local air program, EPA, or the public that additional information is needed to evaluate the application, the Department shall notify the applicant within 30 days. When an applicant becomes aware that an application contains incorrect or incomplete information, the applicant shall submit the corrected or supplementary information to the Department. If the Department notifies an applicant that corrected or supplementary information is necessary to process the permit, and requests a response, the applicant shall provide the information to the Department within ninety days of the Department request unless the applicant has requested and been granted additional time to submit the information or, the applicant shall, within ninety days, submit a written request that the Department process the application without the information. Failure of an applicant to submit corrected or supplementary information requested by the Department within ninety days, or such additional time as requested and granted, or to demand in writing within ninety days that the application be processed without the information shall render the application incomplete. Nothing in this section shall limit any other remedies available to the Department.

[Rules 62-213.420(1)(a)3. and 62-213.420(1)(b)1., 2., 3. & 4., F.A.C.]

36. Confidential Information. Whenever an applicant submits information under a claim of confidentiality pursuant to Section 403.111, F.S., the applicant shall also submit a copy of all such information and claim directly to EPA. (also, see Condition No. 50.) [Rule 62-213.420(2), F.A.C.]

37. Standard Application Form and Required Information. Applications shall be submitted under Chapter 62-213, F.A.C., on forms provided by the Department and adopted by reference in Rule 62-210.900(1), F.A.C. The information as described in Rule 62-210.900(1), F.A.C., shall be included for the Title V source and each emissions unit. An application must include information sufficient to determine all applicable requirements for the Title V source and each emissions unit and to evaluate a fee amount pursuant to Rule 62-213.205, F.A.C.

[Rule 62-213.420(3), F.A.C.]

38. a. Permit Renewal and Expiration. Permits being renewed are subject to the same requirements that apply to permit issuance at the time of application for renewal. Permit renewal applications shall contain that information identified in Rules 62-210.900(1) and 62-213.420(3), F.A.C. Unless a Title V source submits a timely application for permit renewal in accordance with the requirements of Rule 62-4.090(1), F.A.C., the existing permit shall expire and the source's right to operate shall terminate. No Title V permit will be issued for a new term except through the renewal process.

b. Permit Revision Procedures. Permit revisions shall meet all requirements of Chapter 62-213, F.A.C., including those for content of applications, public participation, review by approved local programs and affected states, and review by EPA, as they apply to permit issuance and permit renewal, except that permit revisions for those activities implemented pursuant to Rule 62-213.412, F.A.C., need not meet the requirements of Rule 62-213.430(1)(b), F.A.C. The Department shall require permit revision in accordance with the provisions of Rule 62-4.080, F.A.C., and 40 CFR 70.7(f), whenever any source becomes subject to any condition listed at 40

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

CFR 70.7(f)(1), hereby adopted and incorporated by reference. The below requirements from 40 CFR 70.7(f) are adopted and incorporated by reference in Rule 62-213.430(4), F.A.C.:

o 40 CFR 70.7(f): Reopening for Cause. (also, see Condition No. 4.)

(1) This section contains provisions from 40 CFR 70.7(f) that specify the conditions under which a Title V permit shall be reopened prior to the expiration of the permit. A Title V permit shall be reopened and revised under any of the following circumstances:

- (i) Additional applicable requirements under the Act become applicable to a major Part 70 source with a remaining permit term of 3 or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii).
 - (ii) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approved by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - (iii) The permitting authority or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 - (iv) The Administrator or the permitting authority determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- (2) Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.
- (3) Reopenings under 40 CFR 70.7(f)(1) shall not be initiated before a notice of such intent is provided to the Part 70 source by the permitting authority at least 30 days in advance of the date that the permit is to be reopened, except that the permitting authority may provide a shorter time period in the case of an emergency.

[Rules 62-213.430(3) & (4), F.A.C.; and, 40 CFR 70.7(f)]

39. Insignificant Emissions Units or Pollutant-Emitting Activities.

(a) All requests for determination of insignificant emissions units or activities made pursuant to Rule 62-213.420(3)(n), F.A.C., shall be processed in conjunction with the permit, permit renewal or permit revision application submitted pursuant to Chapter 62-213, F.A.C. Insignificant emissions units or activities shall be approved by the Department consistent with the provisions of Rule 62-4.040(1)(b), F.A.C. Emissions units or activities which are added to a Title V source after issuance of a permit under Chapter 62-213, F.A.C., shall be incorporated into the permit at its next renewal, provided such emissions units or activities have been exempted from the requirement to obtain an air construction permit and also qualify as insignificant pursuant to Rule 62-213.430(6), F.A.C.

(b) An emissions unit or activity shall be considered insignificant if all of the following criteria are met:

- 1. Such unit or activity would be subject to no unit-specific applicable requirement;
- 2. Such unit or activity, in combination with other units or activities proposed as insignificant, would not cause the facility to exceed any major source threshold(s) as defined in Rule 62-213.420(3)(c)1., F.A.C., unless it is acknowledged in the permit application that such units or activities would cause the facility to exceed such threshold(s);
- 3. Such unit or activity would not emit or have the potential to emit:
 - a. 500 pounds per year or more of lead and lead compounds expressed as lead;
 - b. 1,000 pounds per year or more of any hazardous air pollutant;
 - c. 2,500 pounds per year or more of total hazardous air pollutants; or
 - d. 5.0 tons per year or more of any other regulated pollutant.

[Rule 62-213.430(6), F.A.C.]

40. Permit Duration. Permits for sources subject to the Federal Acid Rain Program shall be issued for terms of five years, provided that the initial Acid Rain Part may be issued for a term less than five years where necessary to coordinate the term of such part with the term of a Title V permit to be issued to the source. Operation permits for Title V sources may not be extended as provided in Rule 62-4.080(3), F.A.C., if such extension will result in a permit term greater than five years.

[Rule 62-213.440(1)(a), F.A.C.]

41. Monitoring Information. All records of monitoring information shall specify the date, place, and time of sampling or measurement and the operating conditions at the time of sampling or measurement, the date(s) analyses were performed, the company or entity that performed the analyses, the analytical techniques or methods used, and the results of such analyses.

[Rule 62-213.440(1)(b)2 a., F.A.C.]

42. Retention of Records. Retention of records of all monitoring data and support information shall be for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

[Rule 62-213.440(1)(b)2.b., F.A.C.]

43. Monitoring Reports. The permittee shall submit reports of any required monitoring at least every six (6) months. All instances of deviations from permit requirements must be clearly identified in such reports.

[Rule 62-213.440(1)(b)3.a., F.A.C.]

44. Deviation from Permit Requirements Reports. The permittee shall report in accordance with the requirements of Rules 62-210.700(6) and 62-4.130, F.A.C., deviations from permit requirements, including those attributable to upset conditions as defined in the permit. Reports shall include the probable cause of such deviations, and any corrective actions or preventive measures taken.

[Rule 62-213.440(1)(b)3.b., F.A.C.]

45. Reports. All reports shall be accompanied by a certification by a responsible official, pursuant to Rule 62-213.420(4), F.A.C.

[Rule 62-213.440(1)(b)3.c., F.A.C.]

46. If any portion of the final permit is invalidated, the remainder of the permit shall remain in effect.

[Rule 62-213.440(1)(d)1., F.A.C.]

47. It shall not be a defense for a permittee in an enforcement action that maintaining compliance with any permit condition would necessitate halting of or reduction of the source activity.

[Rule 62-213.440(1)(d)3., F.A.C.]

48. Any Title V source shall comply with all the terms and conditions of the existing permit until the Department has taken final action on any permit renewal or any requested permit revision, except as provided at Rule 62-213.412(2), F.A.C.

[Rule 62-213.440(1)(d)4., F.A.C.]

49. A situation arising from sudden and unforeseeable events beyond the control of the source which causes an exceedance of a technology-based emissions limitation because of unavoidable increases in emissions attributable to the situation and which requires immediate corrective action to restore normal operation, shall be an affirmative defense to an enforcement action in accordance with the provisions and requirements of 40 CFR 70.6(g)(2) and (3), hereby adopted and incorporated by reference.

[Rule 62-213.440(1)(d)5., F.A.C.]

50. Confidentiality Claims. Any permittee may claim confidentiality of any data or other information by complying with Rule 62-213.420(2), F.A.C. (also, see Condition No. 36.)

[Rule 62-213.440(1)(d)6., F.A.C.]

51. Statement of Compliance. (a)2. The permittee shall submit a Statement of Compliance with all terms and conditions of the permit that includes all the provisions of 40 CFR 70.6(c)(5)(iii), incorporated by reference at Rule 62-204.800, F.A.C., using DEP Form No. 62-213.900(7). Such statement shall be accompanied by a certification in accordance with Rule 62-213.420(4), F.A.C., for Title V requirements and with Rule 62-214.350, F.A.C., for Acid Rain requirements. Such statements shall be submitted (postmarked) to the Department and EPA:

- a. Annually, within 60 days after the end of each calendar year during which the Title V permit was effective, or more frequently if specified by Rule 62-213.440(2), F.A.C., or by any other applicable requirement; and
- b. Within 60 days after submittal of a written agreement for transfer of responsibility as required pursuant to 40 CFR 70.7(d)(1)(iv), adopted and incorporated by reference at Rule 62-204.800, F.A.C., or within 60 days after permanent shutdown of a facility permitted under Chapter 62-213, F.A.C.; provided that, in either such case, the reporting period shall be the portion of the calendar year the permit was effective up to the date of transfer of responsibility or permanent facility shutdown, as applicable.

3. In lieu of individually identifying all applicable requirements and specifying times of compliance with, non-compliance with, and deviation from each, the responsible official may use DEP Form No. 62-213.900(7) as such statement of compliance so long as the responsible official identifies all reportable deviations from and all instances of non-compliance with any applicable requirements and includes all information required by the federal regulation relating to each reportable deviation and instance of non-compliance.

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

(b) The responsible official may treat compliance with all other applicable requirements as a surrogate for compliance with Rule 62-296.320(2), Objectionable Odor Prohibited.

[Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

52. **Permit Shield.** Except as provided in Chapter 62-213, F.A.C., compliance with the terms and conditions of a permit issued pursuant to Chapter 62-213, F.A.C., shall, as of the effective date of the permit, be deemed compliance with any applicable requirements in effect, provided that the source included such applicable requirements in the permit application. Nothing in Rule 62-213.460, F.A.C., or in any permit shall alter or affect the ability of EPA or the Department to deal with an emergency, the liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance, or the requirements of the Federal Acid Rain Program.

[Rule 62-213.460, F.A.C.]

53. **Forms and Instructions.** The forms used by the Department in the Title V source operation program are adopted and incorporated by reference in Rule 62-213.900, F.A.C. The form is listed by rule number, which is also the form number, and with the subject, title, and effective date. Copies of forms may be obtained by writing to the Department of Environmental Protection, Division of Air Resource Management, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, or by contacting the appropriate permitting authority.

(1) Major Air Pollution Source Annual Emissions Fee Form. (Effective 01/03/2001)

(7) Statement of Compliance Form. (Effective 06/02/2002)

(8) Responsible Official Notification Form. (Effective 06/02/2002)

[Rule 62-213.900, F.A.C.: Forms (1), (7) and (8)]

Chapter 62-256, F.A.C.

54. **Not federally enforceable. Open Burning.** This permit does not authorize any open burning nor does it constitute any waiver of the requirements of Chapter 62-256, F.A.C. Source shall comply with Chapter 62-256, F.A.C., for any open burning at the source.

[Chapter 62-256, F.A.C.]

Chapter 62-281, F.A.C.

55. **Refrigerant Requirements.** Any facility having refrigeration equipment, including air conditioning equipment, which uses a Class I or II substance (listed at 40 CFR 82, Subpart A, Appendices A and B), and any facility which maintains, services, or repairs motor vehicles using a Class I or Class II substance as refrigerant must comply with all requirements of 40 CFR 82, Subparts B and F, and with Rule 62-281.100, F.A.C. Those requirements include the following restrictions:

(1) Any facility having any refrigeration equipment normally containing 50 (fifty) pounds of refrigerant, or more, must keep servicing records documenting the date and type of all service and the quantity of any refrigerant added pursuant to 40 CFR 82.166;

(2) No person repairing or servicing a motor vehicle may perform any service on a motor vehicle air conditioner (MVAC) involving the refrigerant for such air conditioner unless the person has been properly trained and certified as provided at 40 CFR 82.34 and 40 CFR 82.40, and properly uses equipment approved pursuant to 40 CFR 82.36 and 40 CFR 82.38, and complies with 40 CFR 82.42;

(3) No person may sell or distribute, or offer for sale or distribution, any substance listed as a Class I or Class II substance at 40 CFR 82, Subpart A, Appendices A and B, except in compliance with Rule 62-281.100, F.A.C., and 40 CFR 82.34(b), 40 CFR 82.42, and/or 40 CFR 82.166;

(4) No person maintaining, servicing, repairing, or disposing of appliances may knowingly vent or otherwise release into the atmosphere any Class I or Class II substance used as a refrigerant in such equipment and no other person may open appliances (except MVACs as defined at 40 CFR 82.152) for service, maintenance or repair unless the person has been properly trained and certified pursuant to 40 CFR 82.161 and unless the person uses equipment certified for that type of appliance pursuant to 40 CFR 82.158 and unless the person observes the practices set forth at 40 CFR 82.156 and 40 CFR 82.166;

(5) No person may dispose of appliances (except small appliances, as defined at 40 CFR 82.152) without using equipment certified for that type of appliance pursuant to 40 CFR 82.158 and without observing the practices set forth at 40 CFR 82.156 and 40 CFR 82.166;

(6) No person may recover refrigerant from small appliances, MVACs and MVAC-like appliances (as defined at 40 CFR 82.152), except in compliance with the requirements of 40 CFR 82, Subpart F.

[40 CFR 82; and, Chapter 62-281, F.A.C. (Chapter 62-281, F.A.C., is not federally enforceable)]

APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06) (continued)

Chapter 62-296, F.A.C.

56. Industrial, Commercial, and Municipal Open Burning Prohibited. Open burning in connection with industrial, commercial, or municipal operations is prohibited, except when:

- (a) Open burning is determined by the Department to be the only feasible method of operation and is authorized by an air permit issued pursuant to Chapter 62-210 or 62-213, F.A.C.; or
- (b) An emergency exists which requires immediate action to protect human health and safety; or
- (c) A county or municipality would use a portable air curtain incinerator to burn yard trash generated by a hurricane, tornado, fire or other disaster and the air curtain incinerator would otherwise be operated in accordance with the permitting exemption criteria of Rule 62-210.300(3), F.A.C.

[Rule 62-296.320(3), F.A.C.]

57. Unconfined Emissions of Particulate Matter.

(4)(c)1. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions.

3. Reasonable precautions include the following:

- a. Paving and maintenance of roads, parking areas and yards.
- b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
- c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
- d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
- e. Landscaping or planting of vegetation.
- f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
- g. Confining abrasive blasting where possible.
- h. Enclosure or covering of conveyor systems.

4. In determining what constitutes reasonable precautions for a particular facility, the Department shall consider the cost of the control technique or work practice, the environmental impacts of the technique or practice, and the degree of reduction of emissions expected from a particular technique or practice.

[Rules 62-296.320(4)(c)1., 3., & 4. F.A.C.]

[electronic file name: tv-6.doc]

ATTACHMENT LC-FI-C2
COMPLIANCE REPORT AND PLAN

LAKE COGEN, LTD.

NCP LAKE POWER LLC, GENERAL PARTNER

39001 Golden Gem Dr. • Umatilla, FL 32784
Tel (352) 669-3288 • Fax (352) 669-3188

January 28, 2008

Mr. Garry Kuberski
Florida Department of Environmental Protection
Central District
3319 Maguire Blvd., Suite 232
Orlando, FL 32803

RE: Lake Cogen Ltd., Facility ID No. 0694801,
Year 2007 Annual Title V Permit Certification Submittal

Dear Mr. Kuberski

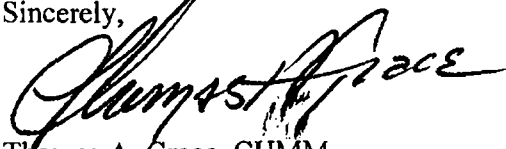
Attached for your review and use is the Year 2007 Title V annual Compliance Statement for the Lake Cogen facility. A copy of this report is also being submitted to USEPA Region IV as previously requested by the Department.

All known reporting issues and operational discrepancies were brought to the Department's attention in the four quarterly facility summary and excess emission reports submitted for calendar year 2007.

The four quarterly summary and excess emission reports were submitted to the Department in April 2007, July 2007, October 2007 and January, 2008. There were a number of minor emission limit exceedances. All of the minor exceedances described in these reports were attributed to either startup/ shutdown situations or equipment malfunction, and were allowable and acceptable under operating conditions stipulated in the Operating Permit. All exceedances were within the recovery time allowed under the site permit.

Based upon reasonable inquiry and review of the Lake Cogen facility's performance, we believe we have provided you with a reasonable report that reflects the facility's compliance status during the year 2007. If you have any questions or require additional information with regard to this submittal please feel free to contact me. My new telephone number is (775) 850-2248.

For Lake Cogeneration LP
Sincerely,



Thomas A. Grace, CHMM
Manager, Environmental Resources

W/attachment

Cc: USEPA Region IV
Atlanta Federal Center
Attn: Air and EPCRA Enforcement Branch
61 Forsyth Street SW
Atlanta, GA 30303-3104
(404) 562-9099

Cc: J. Delgado
J. Miller @ Lake



Department of Environmental Protection

Division of Air Resource Management

STATEMENT OF COMPLIANCE - TITLE V SOURCE

REASON FOR SUBMISSION (Check one to indicate why this statement of compliance is being submitted)

☒ Annual Requirement ☐ Transfer of Permit ☐ Permanent Facility Shutdown

| REPORTING PERIOD* | REPORT DEADLINE** |
|------------------------------------|-------------------|
| 01/01 through 12/31 of 2007 (year) | 03/01/08 |

*The statement of compliance must cover all conditions that were in effect during the indicated reporting period, including any conditions that were added, deleted, or changed through permit revision.

**See Rule 62-213.440(3)(a)2., F.A.C.

Facility Owner/Company Name: Lake Cogen Ltd.

Site Name: Lake Cogen Facility ID No. 0694801 County: Lake

COMPLIANCE STATEMENT (Check only one of the following three options)

- _____ A. This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part, and there were no reportable incidents of deviations from applicable requirements associated with any malfunction or breakdown of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above.
- ☒ B. This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part; however, there were one or more reportable incidents of deviations from applicable requirements associated with malfunctions or breakdowns of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above, which were reported to the Department. For each incident of deviation, the following information is included:

1. Date of report previously submitted identifying the incident of deviation.
2. Description of the incident.

- _____ C. This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part, EXCEPT those identified in the pages attached to this report and any reportable incidents of deviations from applicable requirements associated with malfunctions or breakdowns of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above, which were reported to the Department. For each item of noncompliance, the following information is included:

1. Emissions unit identification number.
2. Specific permit condition number (note whether the permit condition has been added, deleted, or changed during certification period).
3. Description of the requirement of the permit condition.
4. Basis for the determination of noncompliance (for monitored parameters, indicate whether monitoring was continuous, i.e., recorded at least every 15 minutes, or intermittent).
5. Beginning and ending dates of periods of noncompliance.
6. Identification of the probable cause of noncompliance and description of corrective action or preventative measures implemented.
7. Dates of any reports previously submitted identifying this incident of noncompliance.

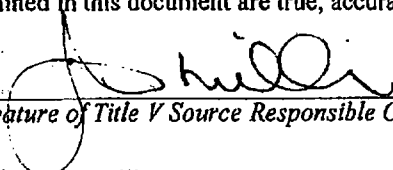
For each incident of deviation, as described in paragraph B. above, the following information is included:

1. Date of report previously submitted identifying the incident of deviation.
2. Description of the incident.

STATEMENT OF COMPLIANCE - TITLE V SOURCE

RESPONSIBLE OFFICIAL CERTIFICATION

I, the undersigned, am a responsible official (Title V air permit application or responsible official notification form on file with the Department) of the Title V source for which this document is being submitted. With respect to all matters other than Acid Rain program requirements, I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements made and data contained in this document are true, accurate, and complete.


(Signature of Title V Source Responsible Official)

1/25/08
(Date)

Name: James Miller

Title: Plant Manager

DESIGNATED REPRESENTATIVE CERTIFICATION (only applicable to Acid Rain source)

I, the undersigned, am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

NA

(Signature of Acid Rain Source Designated Representative)

(Date)

Name: _____

Title: _____

{Note: Attachments, if required, are created by a responsible official or designated representative, as appropriate, and should consist of the information specified and any supporting records. Additional information may also be attached by a responsible official or designated representative when elaboration is required for clarity. This report is to be submitted to both the compliance authority (DEP district or local air program) and the U.S. Environmental Protection Agency(EPA) (U.S. EPA Region 4, Air and EPCRA Enforcement Branch, 61 Forsyth Street, Atlanta GA 30303).}

ATTACHMENT LC-FI-C3

REQUESTED CHANGES TO CURRENT TITLE V AIR OPERATION PERMIT

Table 1
A.6. Allowable Emission Limits

| Pollutant | Source ^a | Fuel ^b | Basis of Limit | Allowable Emission Limits | | | |
|---------------------|---------------------|-------------------|--------------------------------------|---------------------------|--------|--|------------------|
| | | | | at 59°F | | Maximum Allowable at 51°F ^f | |
| | | | | lbs/hr | TPY | lbs/hr ^d | TPY ^e |
| NOx ^c | CT | NG | BACT: 25 ppmvd at 15% O ₂ | 82.7 | 393.6 | 85.5 | 404.7 |
| | CT | DFO | BACT: 42 ppmvd at 15% O ₂ | 143.9 | | | |
| | DB | NG | BACT: 0.1 lb/MMBtu | 18.0 | | | |
| | CT&DB | NG | | 100.7 | | | |
| CO | CT | NG | BACT: 28 ppmvd | 54.6 | 350.3 | 56.0 | 350.3 |
| | CT | DFO | BACT: 18 ppmvd | 33.0 | | 34.5 | |
| | DB | NG | BACT: 0.2 lb/MMBtu | 36.0 | | 36.0 | |
| | CT&DB | NG | | 90.6 | | 92.0 | |
| PM/PM ₁₀ | CT | NG | BACT: 0.0065 lb/ MMBtu | 5.0 | 27.0 | 5.0 | 27.0 |
| | CT | DFO | BACT: 0.026 lb/MMBtu | 20.0 | | 20.0 | |
| | DB | NG | BACT: 0.006 lb/MMBtu | 2.6 | | 2.6 | |
| | CT&DB | NG | | 7.6 | | 7.6 | |
| SO ₂ | CT | NG | Estab. By Applicant 0.1% S | 80.0 | 21.0 | 87.6 | 21.0 |
| VOC | CT | NG | Established by Applicant | 3.3 | 30.8 | 3.4 | 30.8 |
| | CT | DFO | Established by Applicant | 8.3 | | 8.7 | |
| | DB | NG | Established by Applicant | 5.4 | | 5.4 | |
| | CT&DB | NG | | 8.7 | | 8.8 | |
| Mercury (Hg) | CT | DFO | Established by Applicant | -- | 0.0003 | -- | 0.0003 |
| Lead (Pb) | CT | DFO | Established by Applicant | -- | 0.0008 | -- | 0.0008 |
| Beryllium (Be) | CT | DFO | Established by Applicant | -- | 0.0002 | -- | 0.0002 |
| Sulfuric Acid Mist | CT | DFO | Established by Applicant | -- | 0.80 | -- | 0.80 |

a CT = 2 combustion turbines. DB = 2 duct burners

b NG = natural gas. DFO = distillate fuel oil

c No, limits for 59°F are at 60% relative humidity (ISO conditions)

d Compliance with the Maximum Allowable Emission Limits shall be demonstrated for CT limits and CT&DB limits.

e The Maximum Allowable TPY of emissions, based on a worst case scenario, are the sum of the CT emissions while firing NG for 355 days, the CT emissions while firing DFO for 10 days, and DB emissions at the maximum heat input for the previous combinations of CT firing. The DB will only fire NG and only while the CT is firing NG.

f These are the Maximum Allowable Emission Limits shall never be exceeded at any temperature and/or operating configuration.

Note: All temperatures cited in this table refer to turbine inlet temperatures.

{Note: The NOx limit is more stringent than the NSPS nitrogen oxides limitation and thus ensure compliance with 40 CFR 60.332 and 60.334.}

[BACT dated November 20, 1991 and construction permit AC35-196459.]

and operate a continuous monitoring system (CMS) to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine.

2. As an alternative to operating the CMS program described in 1 above, the owner or operator may install, certify, maintain, operate and quality assure a continuous emissions monitoring system (CEMS) consisting of NO_x and oxygen (O₂) monitors. Using this method of compliance, NO_x emissions will be determined on a 30 day rolling average basis for comparison to required standards. Required NO_x RATA tests will be conducted in lieu of required annual NO_x testing.

[40 CFR 60.334(a) and (b)]

A12. The owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60, Subpart GG shall monitor sulfur content and nitrogen content of the fuel being fired in the turbine. The frequency of determination of these values shall be as follows:

1) If the turbine is supplied its fuel from a bulk storage tank, the values shall be determined on each occasion that fuel is transferred to the storage tank from any other source.

2) If the turbine is supplied its fuel without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom schedules for determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Administrator before they can be used to comply with 40 CFR 60.334(h).

3) The owner or operator may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel has been demonstrated to meet the definition of natural gas in 40 CFR 60.331(u), regardless of whether an existing custom schedule approved by the Administrator requires such monitoring.

[40 CFR 60.334(h)(1), (2) and (3)]

A13. The permittee shall monitor sulfur content and nitrogen content of natural gas fired in the turbine as follows:

Custom Fuel Monitoring Schedule for Natural Gas

1.

a) Monitoring of fuel nitrogen content shall not be required when firing natural gas.

b) Sulfur Monitoring:

i. Provided there is no change in fuel supply, the facility has demonstrated to the satisfaction of the Department that it does fire natural gas which meets the definition set forth in 40 CFR 60.331(u) and is therefore not required to continue with the previously approved customized fuel monitoring schedule.

c) If there is a change in fuel supply, the owner or operator must notify the Department of such change for re-examination of this custom schedule. A substantial change requires reexamination of this custom schedule. A substantial change in fuel quality shall be considered as a change in fuel supply. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.

- d) Records of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of three years, and be available for inspection by personnel of federal, state, and local air pollution control agencies.

[40 CFR 60.334(h)(2) and (3), and AC35-196459]

A14. 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.]

Compliance Assurance Monitoring (CAM) Requirements

~~A.14.1. These emissions unit(s) are subject to the CAM requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), F.A.C.~~

~~[40 CFR 64; and Rules 62-204.800 and 62-213.440(1)(b)1.a., F.A.C.]~~

Test Methods and Procedures

A15. Visible Emissions (VE). The test method for VE shall be EPA Method 9, incorporated by reference in Chapter 62-297, F.A.C.

[Rules 62-213.440, 62-297.310, and 62-297.401, F.A.C.; and construction permit AC35-196459]

A16. Particulate matter (PM). The test methods for PM emissions shall be EPA Method 5 or 17, incorporated by reference in Chapter 62-297, F.A.C. A visible emission test using EPA Method 9 will be acceptable and stack testing for PM is waived if the opacity is less than 10%.

[Rules 62-213.440, 62-297.310, and 62-297.401, F.A.C.; and construction permit AC35-196459]

A17. To compute the nitrogen oxides emissions, the owner or operator shall use analytical methods and procedures that are accurate to within 5 percent and are approved by the Department.

[40 CFR 60.335(b)]

~~**A18.** For purposes of demonstrating compliance with NSPS - 40 CFR 60, Subpart GG, the monitoring device of 40 CFR 60.334(a) shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with the permitted NOx standard. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer.~~

~~See Specific Condition A.11(2).~~

ATTACHMENT LC-EU1-I1

COMPLIANCE DEMONSTRATION REPORTS/RECORDS

EXECUTIVE SUMMARY

The annual compliance test results for Units 1 and 2 Combustion Turbine meet all mass emission requirements listed in the Florida Department of Environmental Protection (FDEP) Permit Number 0694801-008-AC. All tests were conducted on natural gas firing only. The units are limited to 50.2 MW generation with the SPRINT system in operation by General Electric.

| Pollutant | Source | Actual Emissions | Total Plant Allowable Emissions* |
|-----------------|---------|--|--|
| UNIT 1 | | | |
| NO _x | CT | 41.97 lbs/hr, 24.4 ppm _v d @ 15% O ₂ | 85.5 lbs/hr, 25ppm _v d @ 15% O ₂ |
| | DB | 1.36 lbs/hr, 0.031 lbs/MMBTU | 18.0 lbs/hr, 0.1 lbs/MMBTU |
| | CT & DB | 43.35 lbs/hr | 103.5 lbs/hr |
| CO | CT | 26.5 lbs/hr, 27.6 ppm _v d | 56.0 lbs/hr, 28 ppm _v d |
| | DB | 2.90 lbs/hr, 0.066 lbs/MMBTU | 36.0 lbs/hr, 0.2 lbs/MMBTU |
| | CT & DB | 29.3 lbs/hr | 92.0 lbs/hr |
| UNIT 2 | | | |
| NO _x | CT | 40.52 lbs/hr, 23.3 ppm _v d @ 15% O ₂ | 85.5 lbs/hr, 25ppm _v d @ 15% O ₂ |
| | DB | NA | 18.0 lbs/hr, 0.1 lbs/MMBTU |
| | CT & DB | NA | 103.5 lbs/hr |
| CO | CT | 26.21 lbs/hr, 27.3 ppm _v d | 56.0 lbs/hr, 28 ppm _v d |
| | DB | NA | 36.0 lbs/hr, 0.2 lbs/MMBTU |
| | CT & DB | NA | 92.0 lbs/hr |

* at 51°F

Emission results are provided in Tables 1 and 2.

SO₂ emissions based on fuel analysis was 0.00376 lb/hr at 49 MW for CT-1 and 0.00378 lb/hr for CT-2.

1.0 INTRODUCTION

On December 18 and 19, 2007 Air Consulting and Engineering, Inc. performed testing according to conditions stated in Construction Permit #0694801-008 AC for Carbon Monoxide (CO), Oxides of Nitrogen (NO_x) and Oxygen content (O₂) on the two Combustion Turbines, (CT-1 and CT-2) at Lake Cogen Limited in Umatilla, Florida. The spray intercooling (SPRINT) system was also in operation during these test series.

The United States Environmental Protection Agency (EPA) Methods 7E (NO_x), 3A (O₂) and 10 (CO) were used to conduct the tests.

CT-1 was tested with and without Duct Burners (DB) operating at base load, while CT-2 was tested with the turbine only in operation.

Mr. Jim Miller of Lake Cogen coordinated the tests. Mr. Garry Kuberski of the FDEP Orlando and Mr. Russell A. Wilder of the FDEP Tallahassee were present for a portion of the testing.

2.0 SUMMARY AND DISCUSSION OF RESULTS

Results of the emission tests are summarized in Tables 1 (CT-1) and 2 (CT-2), showing base load conditions with and without duct burners. The Units were fired on natural gas.

The contribution of NO_x and CO emissions of the gas fired duct burners was determined by performing a test series with and without duct burner firing. The difference in emission rates was attributed to the duct burners.

Duct burner NO_x contributions averaged 0.031 pounds per Million BTUs (lbs/MMBTU) for Unit 1. CO duct burner contributions averaged 0.066 lbs/MMBTU for Unit 1. Unit 2 could not be tested with the duct burner in operation.

Duct burner emissions were calculated using the following formula:

$$\text{lbs/MMBTU DB} = \frac{(\text{lbs/hr CT+DB}) - (\text{lbs/hr CT})}{\text{DB Heat input MMBTUH (HHV)}}$$

Units 1 and 2 without duct burners averaged 24.4 and 23.3 parts per million (ppm) NO_x at 15% O₂, respectively, which is within the permitted standard of 25 ppm at 15% O₂. CO emissions were at 27.6 and 27.3 ppm for CT-1 and CT-2, respectively.

The maximum power output of the both combustion turbines was 49 megawatts (MW) during the test series.

Mass emissions of NO_x and CO were determined by multiplying the fuel factor (8710) derived lbs/MMBTU value by the heat input in terms of higher heating value.

Gaseous emission data with data logger results and strip chart copies are provided in Appendices B and C, respectively.

Table 1. Emission Summary
Unit 1 Combustion Turbine - Gas Fired
Lake Cogeneration, Ltd.
Umatilla, Florida
December 19, 2007

| Run Number | Time | Oxygen % | NOx Emissions | | | | CO Emissions | | | CT Gas Flow | CT Heat Input | | DB | | CT + DB | DB | DB |
|-------------------------------|-----------|----------|---------------|------------|--------|-----------|--------------|--------|-----------|-------------|---------------|------------|------------------|-----------------------|-----------------------|----------------------|---------------------|
| | | | ppm | ppm 15% O2 | lbs/hr | lbs/MMBTU | ppm | lbs/hr | lbs/MMBTU | hscf/hr | MMBTUH HHV | MMBTUH LHV | Gas Flow hscf/hr | Heat Input MMBTUH HHV | Heat Input MMBTUH HHV | NOx Contr. lbs MMBTU | CO Contr. lbs MMBTU |
| Full Load CT only | | | | | | | | | | | | | | | | | |
| 1 | 0746-0904 | 14.46 | 26.51 | 24.26 | 41.68 | 0.0894 | 28.19 | 26.98 | 0.0579 | 4542 | 466.5 | 421.8 | NA | NA | NA | NA | NA |
| 2 | 0916-1030 | 14.46 | 26.54 | 24.28 | 41.79 | 0.0895 | 27.59 | 26.44 | 0.0566 | 4549 | 467.2 | 422.5 | NA | NA | NA | NA | NA |
| 3 | 1042-1155 | 14.45 | 26.94 | 24.63 | 42.44 | 0.0908 | 27.06 | 25.92 | 0.0555 | 4551 | 467.4 | 422.7 | NA | NA | NA | NA | NA |
| Average | --- | 14.46 | 26.66 | 24.39 | 41.97 | 0.0899 | 27.61 | 26.45 | 0.0566 | 4547 | 467.0 | 422.3 | NA | NA | NA | NA | NA |
| Full Load CT with Duct Burner | | | | | | | | | | | | | | | | | |
| 1 | 1352-1505 | 13.79 | 27.70 | 22.96 | 43.29 | 0.0846 | 30.96 | 29.45 | 0.0576 | 4558 | 468.1 | 423.3 | 425.0 | 43.6 | 511.8 | 0.037 | 0.057 |
| 2 | 1518-1629 | 13.80 | 27.62 | 22.94 | 43.29 | 0.0845 | 31.16 | 29.71 | 0.0580 | 4556 | 467.9 | 423.1 | 432.0 | 44.4 | 512.3 | 0.034 | 0.074 |
| 3 | 1642-1755 | 13.82 | 27.77 | 23.13 | 43.46 | 0.0852 | 30.30 | 28.86 | 0.0566 | 4546 | 466.9 | 422.2 | 424.0 | 43.5 | 510.4 | 0.024 | 0.068 |
| Average | --- | 13.80 | 27.70 | 23.01 | 43.35 | 0.0848 | 30.80 | 29.34 | 0.0574 | 4553 | 467.6 | 422.9 | 427.0 | 43.9 | 511.5 | 0.031 | 0.066 |

Natural Gas Fd-Factor = 8710 MMBTU/dscf MW NOx = 46 lbs/lb-mole MW CO = 28 lbs/lb-mole

Heat Input HHV = (gas flow)(1027 dry Btu/cf)(60 min/hr)/10E6

lbs/hr = ppm(2.595 x 10⁻⁹)MW (20.9/20.9-%O₂)(Fd)(Heat Input HHV)

Allowable Emissions

NOx = 25 ppmvd @ 15%O₂

CO = 28 ppmvd

DB NOx = 0.1 lbs/MMBTU

DB CO = 0.2 lbs/MMBTU

SO₂ Emissions (Subpart GG NSPS) = 3.76E-03 lbs/hr CT

Duct Burner Contribution = $\frac{(\text{lbs/hr CT+DB}) - \text{lbs/hr CT}}{\text{DB Heat Input (HHV)}}$

Table 2. Emission Summary
Unit 2 Combustion Turbine - Gas Fired
Lake Cogeneration, Ltd.
Umatilla, Florida
December 18, 2007

| Run Number | Time | Oxygen % | NOx Emissions | | | | CO Emissions | | | CT | CT Heat Input | |
|-------------------|-----------|-------------|---------------|---------------|--------|-----------|--------------|--------|-----------|----------|---------------|--------|
| | | | ppm | ppm 15% O2 | lbs/hr | lbs/MMBTU | ppm | lbs/hr | lbs/MMBTU | Gas Flow | MMBTUH | MMBTUH |
| | | | | | | | | | | hscf/hr | HHV | LHV |
| Full Load CT only | | | | | | | | | | | | |
| 1 | 0745-0907 | 14.42 | 26.17 | 23.83 | 41.52 | 0.0878 | 26.97 | 26.06 | 0.0551 | 4600 | 472.9 | 427.7 |
| 2 | 0922-1036 | 14.41 | 25.68 | 23.35 | 40.48 | 0.0860 | 27.24 | 26.13 | 0.0555 | 4579 | 470.7 | 425.7 |
| 3 | 1051-1208 | 14.40 | 25.17 | 22.82 | 39.55 | 0.0841 | 27.68 | 26.45 | 0.0563 | 4575 | 470.3 | 425.4 |
| Average | --- | 14.41 | 25.67 | 23.33 | 40.52 | 0.0860 | 27.30 | 26.21 | 0.0556 | 4585 | 284.4 | 426.3 |

Natural Gas Fd-Factor = 8710 MMBTU/dscf MW NOx = 46 lbs/lb-mole MW CO = 28 lbs/lb-mole
Heat Input HHV = (gas flow)(1028 dry Btu/cf)(60 min/hr)/10E6
lbs/hr = ppm(2.595 x 10⁻⁹)MW (20.9/20.9-%O2)(Fd)(Heat Input HHV)

Allowable Emissions

NOx = 25 ppmvd @ 15%O2
CO = 28 ppmvd
DB NOx = 0.1 lbs/MMBTU
DB CO = 0.2 lbs/MMBTU

SO2 Emissions (Subpart GG NSPS) = 3.78E-03 lbs/hr CT

3.0 PROCESS DESCRIPTION AND OPERATION

The Lake Cogeneration Limited facility consists of two GE LM6000 PC combustion gas turbine generating sets with a nominal generating capacity of 47 MW each. The maximum heat input based on the Lower Heating Value (LHV) without the SRINT system shall not exceed 423 MMBTU/hr CT at 51°F, which produces about 47 MW. With the SPRINT system in operation, the heat input based on the LHV is 435 MMBTUH with a power output of about 50.0 MW. Each turbine is exhausted through a Heat Recovery Steam Generator (HRSG) with supplemental duct burner firing. The steam produced by the HRSG is exhausted through a common steam turbine generator originally rated for 26.5 MW. The duct burners are permitted for up to 90 MMBTU heat input each but actually operate at less than half that value. The gas turbines can be fired on either natural gas or oil. The duct burners are fired only with natural gas. The gas turbines have a chiller system, which maintains inlet combustion air at about 51°F to 58°F and 100% relative humidity year round. Water is also injected at the turbine combustor to reduce NO_x emissions.

During the compliance tests, both turbines were operated at a nominal rate of 49 MW (see Appendix E for plant production data).

EXECUTIVE SUMMARY

The compliance test results for Unit 2 Combustion Turbine with the Duct Burner in operation meets all mass emission requirements listed in the Florida Department of Environmental Protection (FDEP) Permit Number 0694801-008-AC. All tests were conducted on natural gas firing only. The units produced approximately 50 MW with the SPRINT system in operation.

| Pollutant | Source | Actual Emissions | Total Plant Allowable Emissions* |
|-----------------|---------|---|--|
| UNIT 2 | | | |
| NO _x | CT | 40.5 lbs/hr, 23.3 ppm _v d @ 15% O ₂ | 85.5 lbs/hr, 25ppm _v d @ 15% O ₂ |
| | DB | 3.04 lbs/hr, 0.075 lbs/MMBTU | 18.0 lbs/hr, 0.1 lbs/MMBTU |
| | CT & DB | 43.56 lbs/hr | 103.5 lbs/hr |
| CO | CT | 26.2 lbs/hr, 27.3 ppm _v d | 56.0 lbs/hr, 28 ppm _v d |
| | DB | 5.95 lbs/hr, 0.146 lbs/MMBTU | 36.0 lbs/hr, 0.2 lbs/MMBTU |
| | CT & DB | 32.2 lbs/hr | 92.0 lbs/hr |

* at 51°F

Emission results are provided in Table 1. Emission data for the turbine only were used from the December 18, 2007 test for both NO_x and CO. NO_x data with the turbine and duct burner operating on February 15 was taken from the plant CEM data. Only Carbon Monoxide emissions were measured.

The SO₂ emission based on fuel analysis was 0.00108 lb/hr at 49.6 MW.

1.0 INTRODUCTION

On February 15, 2008 Air Consulting and Engineering, Inc. performed testing according to conditions stated in Construction Permit Number 0694801-008-AC for Carbon Monoxide (CO) and Oxygen content (O₂) on the Combustion Turbine CT-2 at Lake Cogen Limited in Umatilla, Florida. The spray intercooling (SPRINT) system was also in operation during these test series. CT-2 was tested with and without Duct Burners (DB) operating at base load.

The United States Environmental Protection Agency (EPA) Methods 3A (O₂) and 10 (CO) were used to conduct the tests.

Mr. Jim Miller of Lake Cogen coordinated the tests. Mr. Garry Kuberski of the FDEP Orlando was present for a portion of the testing.

2.0 SUMMARY AND DISCUSSION OF RESULTS

Results of the emission test are summarized in Table 1, showing base load conditions with and without duct burners. The Unit was fired on natural gas.

The contribution CO emissions of the gas fired duct burners was determined by performing a test series with duct burner firing. The turbine without duct burner data was used from the emissions test on December 18, 2007. The difference in emission rates was attributed to the duct burners. NO_x duct burner contribution was determined using the plant's CEMS data, as well as the December 18, 2007 baseline test results.

Duct burner NO_x contributions averaged 0.075 pounds per Million BTUs (lbs/MMBTU). CO duct burner contributions averaged 0.146 lbs/MMBTU.

Duct burner emissions were calculated using the following formula:

$$\text{lbs/MMBTU DB} = \frac{(\text{lbs/hr CT+DB}) - (\text{lbs/hr CT})}{\text{DB Heat input MMBTUH (HHV)}}$$

The maximum power output of the combustion turbine was 49.6 megawatts (MW) during the test series.

Mass emissions of NO_x and CO were determined by multiplying the fuel factor (8710) derived lbs/MMBTU value by the heat input in terms of higher heating value.

Gaseous emission data and data logger results copies are provided in Appendices B and C, respectively.

Table 1. Emission Summary
Unit 2 Combustion Turbine - Gas Fired
Lake Cogeneration, Ltd.
Umatilla, Florida
February 15, 2008

| Run Number | Time | Oxygen % | NOx Emissions | | | | CO Emissions | | | CT Gas Flow | | CT Heat Input | | DB Gas Flow | | DB Heat Input | | CT + DB Heat Input | DB NOx | DB CO |
|------------|------|----------|---------------|--------|--------|-----------|--------------|--------|-----------|-------------|--------|---------------|--------|-------------|--------|---------------|--------|--------------------|------------------|------------------|
| | | | ppm | ppm | lbs/hr | lbs/MMBTU | ppm | lbs/hr | lbs/MMBTU | scfm | MMBTUH | MMBTUH | MMBTUH | scfm | MMBTUH | MMBTUH | MMBTUH | MMBTUH | Contr. lbs/MMBTU | Contr. lbs/MMBTU |
| | | | | 15% O2 | | | | | | | HHV | LHV | | HHV | | HHV | | | | |

Full Load CT only tested December 18, 2007

| | | | | | | | | | | | | | | | | | | | | |
|---------|-----------|-------|-------|-------|-------|--------|-------|-------|--------|------|-------|-------|----|----|----|----|----|----|----|----|
| 1 | 0745-0907 | 14.42 | 26.17 | 23.83 | 41.52 | 0.0878 | 26.97 | 26.06 | 0.0551 | 7667 | 472.9 | 427.7 | NA | NA | NA | NA | NA | NA | NA | NA |
| 2 | 0922-1036 | 14.41 | 25.68 | 23.35 | 40.48 | 0.0860 | 27.24 | 26.13 | 0.0555 | 7632 | 470.7 | 425.7 | NA | NA | NA | NA | NA | NA | NA | NA |
| 3 | 1051-1208 | 14.40 | 25.17 | 22.82 | 39.55 | 0.0841 | 27.68 | 26.45 | 0.0563 | 7625 | 470.3 | 425.4 | NA | NA | NA | NA | NA | NA | NA | NA |
| Average | — | 14.41 | 25.67 | 23.33 | 40.52 | 0.0860 | 27.30 | 26.21 | 0.0556 | 7641 | 474.1 | 426.3 | NA | NA | NA | NA | NA | NA | NA | NA |

Full Load CT with Duct Burner

| | | | from Plant CEM Data | | | | | | | | | | | | | | | | | |
|---------|-----------|-------|---------------------|-------|--------|-----------|-------|-------|--------|------|-------|-------|-------|------|-------|-------|-------|--|--|--|
| | | | ppm | ppm | lbs/hr | lbs/MMBTU | | | | | | | | | | | | | | |
| 1 | 1050-1154 | 13.54 | 29.41 | 23.50 | 44.59 | 0.0864 | 33.32 | 30.87 | 0.0599 | 7725 | 475.6 | 430.1 | 653.0 | 40.2 | 515.7 | 0.076 | 0.120 | | | |
| 2 | 1250-1353 | 13.52 | 28.70 | 22.79 | 43.23 | 0.0838 | 35.44 | 32.75 | 0.0635 | 7716 | 475.0 | 429.6 | 660.2 | 40.6 | 515.6 | 0.068 | 0.163 | | | |
| 3 | 1409-1512 | 13.50 | 28.67 | 22.66 | 42.86 | 0.0831 | 35.65 | 32.85 | 0.0637 | 7709 | 474.6 | 429.2 | 664.7 | 40.9 | 515.5 | 0.081 | 0.156 | | | |
| Average | — | 13.52 | 28.92 | 22.98 | 43.56 | 0.0844 | 34.80 | 32.16 | 0.0624 | 7717 | 475.0 | 429.6 | 659.3 | 40.6 | 515.6 | 0.075 | 0.146 | | | |

Natural Gas Fd-Factor = 8710 MMBTU/dscf MW NOx = 46 lbs/lb-mole MW CO = 28 lbs/lb-mole

Heat Input HHV = (gas flow)(1026 dry Btu/cf)(60 min/hr)/10E6

lbs/hr = ppm(2.595 x 10^E-9)MW (20.9/20.9-%O2)(Fd)(Heat Input HHV)

Allowable Emissions

NOx = 25 ppmvd @ 15%O2

CO = 28 ppmvd

DB NOx = 0.1 lbs/MMBTU

DB CO = 0.2 lbs/MMBTU

SO2 Emissions (Subpart GG NSPS) = 1.08E-02 lbs/hr

Note: NOx ductburner contribution was calculated using the plant's CEMS NOx values during this test (CT and duct burner) and CT values only from the December 18, 2007 test.

CO ductburner contribution was calculated using the measured CO values during this test (CT and duct burner) and the CT values only from the December 18, 2007 test.

**Duct Burner Contribution = (lbs/hr CT = lbs/hr CT+DB)
DB Heat Input (HHV)**

3.0 PROCESS DESCRIPTION AND OPERATION

The Lake Cogeneration Limited facility consists of two GE LM6000 PC combustion gas turbine generating sets with a nominal generating capacity of 47 MW each. The maximum heat input based on the Lower Heating Value (LHV) without the SPRINT system shall not exceed 423 MMBTU/hr CT at 51°F, which produces about 47 MW. With the SPRINT system in operation, the heat input based on the LHV is 435 MMBTUH with a power output of about 50.0 MW. Each turbine is exhausted through a Heat Recovery Steam Generator (HRSG) with supplemental duct burner firing. The steam produced by the HRSG is exhausted through a common steam turbine generator originally rated for 26.5 MW. The duct burners are permitted for up to 90 MMBTU heat input each but actually operate at less than half that value. The gas turbines can be fired on either natural gas or oil. The duct burners are fired only with natural gas. The gas turbines have a chiller system, which maintains inlet combustion air at about 51°F to 58°F and 100% relative humidity year round. Water is also injected at the turbine combustor to reduce NO_x emissions.

During the compliance tests, CT-2 was operated at a nominal rate of 49.6 MW (see Appendix E for plant production data).

ATTACHMENT LC-EU1-I2
EMISSION UNIT APPLICABLE REQUIREMENTS



Florida Department of Environmental Protection

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

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

PERMITTEE

Lake Cogeneration L.P.
39001 Golden Gem Drive
Umatilla, Florida 32784

Authorized Representative:
Mr. James Miller, Plant Manager

Air Permit No. 0694801-008-AC
Facility ID No. 0694801
SIC No. 4931
SPRINT Project

Permit Expires: December 31, 2008

PROJECT AND LOCATION


This permit authorizes installation of spray intercooling (SPRINT) systems on the compressors of two gas turbines designated by the applicant as Units 1 and Unit 2 and by the Department of Environmental Protection (Department) Air Resource Management System as emissions units EU-003 and EU-004 located at the Lake Cogeneration L.P. Facility (the facility). The facility is located in Lake County at 39001 Golden Gem Drive, Umatilla, Florida 32784.

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, Parts 60 and 63 of the Code of Federal Regulations (CFR). 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



Joseph Kahn, Director
Division of Air Resource Management

6/11/07

(Date)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF FINAL PERMIT

Electronically sent – Received Receipt requested.

In the Matter of an
Application for Permit by:

Lake Cogeneration L.P.
39001 Golden Gem Drive
Umatilla, Florida 32784

Authorized Representative:

Mr. James Miller, Plant Manager

DEP File No. 0694801-008-AC
Lake Cogeneration Facility
SPRINT Project
Lake County, Florida
Expires: December 31, 2008

Enclosed is Final Air Construction Permit No. 0694801-008-AC that authorizes installation of spray intercooling (SPRINT) systems on the compressors of two gas turbines designated by the applicant as Units 1 and Unit 2 and by the Department of Environmental Protection (Department) Air Resource Management System as emissions units EU-003 and EU-004 located at the Lake Cogeneration L.P. Facility (the facility). The facility is located in Lake County at 39001 Golden Gem Drive, Umatilla, Florida 32784.

As noted in the attached Final Determination, no changes were made to the Draft Permit. 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 L. Vielhauer, Chief
Bureau of Air Regulation

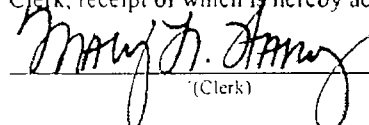
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Construction Permit, Final Determination, and all copies were sent electronically (with Received Receipt) before the close of business on 6/13/07 to the person(s) listed below.

James Miller, Plant Manager: jmiller@caithnessenergy.com
Scott Osbourn, P.E., Golder Associates, Inc.: sosbourn@golder.com
James Bradner, P.E., Central District Office: james.bradner@dep.state.fl.us
Thomas A. Grace, Lake Cogeneration L.P.: tgrace@caithnessenergy.com
Katy Forney, EPA Region 4: forney.kathleen@epa.gov
James Little, EPA Region 4: little.james@epa.gov

Clerk Stamp


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


(Clerk)

6/13/07
(Date)

MEMORANDUM

To: Joseph Kahn

From: Trina L. Vielhauer 

Subject: Lake Cogeneration Facility
Air Construction Permit No. 0694801-008-AC

Date: June 7, 2007

Attached is the final air construction permit for the subject facility. This permit authorizes installation of spray intercooling (SPRINT) systems on the compressors of two gas turbines designated by the applicant as Units 1 and Unit 2. It also establishes these changes as applicable Title V Air Operation Permit conditions.

The Department distributed an "Intent to Issue Permit" package on May 4, 2007. The applicant published the "Public Notice of Intent to Issue" in the Orlando Sentinel on May 9, 2007. No petitions for administrative hearings or extensions of time to petition for an administrative hearing were filed. Minor comments were received from the Applicant on the Intent to Issue the Air Construction Permit package.

I recommend your signature.

FINAL DETERMINATION

PERMITTEE

Lake Cogeneration L.P.
39001 Golden Gem Drive
Umatilla, Florida 32784

PERMITTING AUTHORITY

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

PROJECT

Air Permit No. 0694801-008-AC

Lake Cogeneration Facility

This permit authorizes installation of spray intercooling (SPRINT) systems on the compressors of two gas turbines designated by the applicant as Units 1 and Unit 2 and by the Department of Environmental Protection (Department) Air Resource Management System as emissions units EU-003 and EU-004 located at the Lake Cogeneration L.P. Facility (the facility). The facility is located in Lake County at 39001 Golden Gem Drive, Umatilla, Florida 32784.

NOTICE AND PUBLICATION

The Department distributed an "Intent to Issue Permit" package on May 4, 2007. The applicant published the "Public Notice of Intent to Issue" in the Orlando Sentinel on May 9, 2007. No petitions for administrative hearings or extensions of time to petition for an administrative hearing were filed. The following comments were received from the Applicant on the Draft Permit Intent Package in an e-mail memorandum dated May 22, 2007.

Comment 1:

On the TE&PD, page 3 of 8, it looks like part of the text was deleted at the bottom of the page.

Department Response:

The Applicant is referring to a sentence fragment that has been deleted.

Comment 2:

On the TE&PD, page 8 of 8, under "Other Applicable Requirements"-- it's acknowledged that the Applicant will be installing NO_x CEMS for CAIR, which will make it easier to track one of the two critical pollutants (NO_x and CO).

Department Response:

No response necessary – the Department acknowledges the comment.

FINAL DETERMINATION

Comment 3:

The CEMS timing may end up affecting the compliance testing obligations under the draft permit, Condition 8 (page 4). Depending on when it's proposed to install the NO_x CEMS for CAIR (need by 2009), it may be possible to delete the annual NO_x testing obligation. This may be significant, as the language seems to state that you test annually for all NO_x and CO limits (i.e., CO from CTs and from CT+DB, same with NO_x). There may also be an issue with getting to >90% capacity on the DBs for the annual testing.

Department Response:

No response necessary – the Department acknowledges the comment.

Comment 4:

For Condition 14.a, can we propose that the NO_x emissions be tracked and reported by CEMS?

Department Response:

The Department concurs with the suggestion. Further, pursuant to Department Rule 62-210.370, F.A.C., the owner or operator shall employ, on a pollutant-specific basis, the most accurate of the approaches described in the Rule to compute the emissions of a pollutant from an emissions unit. And, if the emissions unit is equipped with a continuous emissions monitoring system (CEMS) meeting the applicable certification and quality assurance requirements of 40 CFR Part 60, the owner or operator shall use such CEMS to compute the emissions of the pollutant. Specific Condition 14.a. has been modified to reflect this requirement.

CONCLUSION

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

SECTION 1. GENERAL INFORMATION

FACILITY AND PROJECT DESCRIPTION

Lake Cogeneration L.P. consists primarily of two 42 megawatt (MW) combined-cycle units (Units 1 and 2). The two units are designated as Emissions Units EU-003 and 004 in the Department's Air Resource Management System (ARMS).

Each unit consists of a General Electric LM6000PA combustion turbine-electrical generator (CTG) equipped with an air chiller system and a supplementary-fired heat recovery steam generator (HRSG). The steam from the two CTG/HRSGs is available for use by local industries, to make distilled water or in a single nominal 26.5 steam turbine-electrical generator (STG) to produce additional electricity.

The two combined cycle units operate primarily on natural gas. There is a 170,000 gallon storage tank designated as ARMS EU-002.

The project is to add spray intercooling (SPRINT) systems to each CTG to increase power output. Equipment will be installed to inject atomized water into the compressor between the high-pressure and low-pressure compressors. The maximum heat input rate when firing natural gas is expected to increase from 423 to 435 million British thermal units (MMBtu) per hour per CTG.

| ID | Emission Unit Description |
|-----|--|
| 003 | Combined Cycle Combustion Turbine with Duct Burner |
| 004 | Combined Cycle Combustion Turbine with Duct Burner |

REGULATORY CLASSIFICATION

NESHAP: The facility IS NOT a potential major source of hazardous air pollutants. The facility DOES NOT OPERATE units subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) in 40 CFR 63.

Title IV: The facility DOES NOT OPERATE existing units subject to the Acid Rain provisions of the Clean Air Act (CAA).

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 stationary source in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility OPERATES units subject to New Source Performance Standards (NSPS) in 40 CFR 60 including:

- 40 CFR 60, Subpart A - General Provisions.
- 40 CFR 60, Subpart GG - Standards of Performance for Stationary Gas Turbines.

CAIR: The facility IS subject to the Clean Air Interstate Rule (CAIR).

CAMR: Unit IS NOT subject to the Clean Air Mercury Rule (CAMR).

Siting: The facility is a steam electrical generating plant and IS NOT subject to the power plant siting provisions of Chapter 62-17, F.A.C.

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.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The Permitting Authority for this project is the Bureau of Air Regulation in the Division of Air Resource Management of the Department. The mailing address for the Bureau of Air Regulation is 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Office. The mailing address and phone number of the Central District Office is: 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803; Telephone: 407/894-7555; Fax: 407/897-5963.
3. Appendices: The following Appendices are attached as part of this permit: Appendix GC (General Conditions); and Appendix C (Common State Regulatory Requirements).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
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 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 permit authorizes specific modifications and/or new construction on the affected emissions units as well as initial operation to determine compliance with conditions of this permit. A Title V operation permit is required for regular operation of the permitted emissions unit. 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 required work 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 Bureau of Air Regulation with copies to each Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

This section of the permit addresses the following emissions units.

AIR RESOURCE MANAGEMENT SYSTEM (ARMS) Emissions Units 003 and 004

Description: Each emissions unit consists of a General Electric Model LM6000 gas turbine, heat recovery steam generator (HRSG) with duct firing, chiller system, and SPRINT spray inter-cooling. Steam generated in the HRSGs is directed to a common steam turbine-electrical generator, which is rated at 26.5 megawatts (MW). Energy is sold to Progress Energy pursuant to a 20-year agreement that commenced on July 1, 1993. Steam has been furnished to an orange processing facility. In 2002 the facility installed three water distillation units. The distilled water is sold on the open market. Operations and maintenance services are provided by the Caithness Operating Co., L.L.C.

Fuel: Each unit fires pipeline natural gas as the primary fuel and distillate oil as a restricted alternate fuel.

Capacity: At a turbine inlet temperature of 51° F, the maximum heat input rate from gas firing using lower heating value (LHV) without SPRINT is 423 million British thermal units (MMBtu) per hour, which produces approximately 39.5 MW. At a turbine inlet temperature of 51° F, the maximum heat input rate from gas firing (LHV) with SPRINT is 435 MMBtu per hour, which produces approximately 50.2 MW.

Nitrogen Oxides (NO_x) Controls: A water injection system is used to reduce NO_x emissions. The water-to-fuel ratio is monitored continuously and adjusted by the automatic control system based on load conditions.

Stack Parameters: The stack is 11.0 feet in diameter and 100 feet tall. After the HRSGs and steam turbine-electrical generator, the exhaust exits at 232° F with a volumetric flow rate of 325,221 actual cubic feet per minute (acfm).

{Permitting Note: The units remain subject to the applicable requirements of previous Air Construction Permit No. PSD-FL-176 (Project No. AC35-196459) and current Title V Air Operation Permit No. 0694801-005-AV.}

PREVIOUS APPLICABLE REQUIREMENTS

1. **Other Permits:** The conditions of this permit supplement all previously issued air construction and operation permits for this emissions unit. Unless otherwise specified, these conditions are in addition to all other applicable permit conditions and regulatory requirements. The permittee shall continue to comply with the conditions of these permits, which include restrictions and standards regarding capacities, production, operation, fuels, emissions, monitoring, record keeping, reporting, etc. [Rule 62-4.070, F.A.C.]

EQUIPMENT AND PERFORMANCE RESTRICTIONS

2. **SPRINT Upgrade:** This permit authorizes the construction activities necessary to add the General Electric Company's spray inter-cooling (SPRINT) technology to Unit 1 and Unit 2. In general, the equipment consists of a system that will automatically meter approximately 9 to 12 gallons per minute (gpm) of de-mineralized water to a series of 24 spray nozzles. [Applicant request.]
3. **Permitted Capacity:** At a turbine inlet temperature of 51° F, the maximum heat input rate from firing natural gas (LHV) when utilizing the SPRINT system is 435 MMBtu per hour per combustion turbine. [Rule 62-210.200(PTE), F.A.C.]

{Permitting Note: This permit does not alter any previous requirements for other methods of operation or modify any specifications related to authorized fuels, fuel consumption, or allowable hours of operation.}

SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

EMISSIONS STANDARDS

4. Carbon Monoxide (CO)

- a. Combustion Turbines (CTs): When firing natural gas and utilizing SPRINT, CO emissions from each unit shall not exceed 28 parts per million by volume dry (ppmvd). In addition, the maximum CO mass emission rate from both units combined shall not exceed 56.0 pounds per hour based on a turbine inlet temperature of 51° F.

{Permitting Note: The concentration-based standard (ppmvd) remains consistent with the BACT determination made in Permit No. PSD-FL-176.}

- b. Combustion Turbines and Duct Burners (CTs+DBs): When firing natural gas, operating the duct burner system, and utilizing SPRINT, the maximum CO mass emission rate from both units combined shall not exceed 92.0 pounds per hour based on a turbine inlet temperature of 51° F.

[AC35-196459; 0694801-005-AV; and Applicant request.]

5. Nitrogen Oxides (NO_x)

- a. Combustion Turbines (CTs): When firing natural gas and utilizing SPRINT, NO_x emissions from each unit shall not exceed 25 ppmvd corrected to 15% oxygen. In addition, the maximum NO_x mass emission rate from both units combined shall not exceed 85.5 pounds per hour based on a turbine inlet temperature of 51° F.

{Permitting Note: The concentration-based standard (ppmvd corrected to 15% oxygen) remains consistent with the initial BACT determination made in Permit No. PSD-FL-176.}

- b. Combustion Turbines and Duct Burners (CTs+DBs): When firing natural gas, operating the duct burner system, and utilizing SPRINT, the maximum NO_x mass emission rate from both units combined shall not exceed 103.5 pounds per hour based on a turbine inlet temperature of 51° F.

[AC35-196459; 0694801-005-AV; and Applicant request.]

6. Other Emissions Standards: Unless otherwise specified above, the emissions standards specified in current Title V Air Operation Permit No. 0694801-005-AV also apply when utilizing the SPRINT spray inter-cooling system with each corresponding operational configuration.

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

EMISSIONS PERFORMANCE TESTING

7. Initial Compliance Tests: Each unit shall be tested to demonstrate initial compliance with the CO and NO_x emissions standards specified in this permit. CO and NO_x emissions tests shall be conducted concurrently. The initial tests shall be conducted within 60 days after completing construction of the SPRINT project and achieving maximum production capacity, but not later than 180 days after initial operation of the unit with SPRINT. [Rule 62-297.310(7)(a)1., F.A.C.]

8. Annual Compliance Tests: During each federal fiscal year (October 1st to September 30th), each unit shall be tested to demonstrate compliance with the CO and NO_x emissions standards specified in this permit. CO and NO_x emissions tests shall be conducted concurrently.

[Rule and 62-297.310(7)(a)4, F.A.C., and to avoid Rule 62-212.400, F.A.C.]

9. Test Notifications: At least 15 days prior to the date on which each required test is to begin, the permittee shall notify the Compliance Authority of the date, time, and place of each test. The notification shall also include the name and phone number of the contact person who will be responsible for coordinating and having the tests conducted. [Rule 62-297.310(7)(a)9, F.A.C.]

SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

10. Test Methods: 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. |
| 7E | Determination of Nitrogen Oxide Emissions from Stationary Sources. |
| 10 | Determination of Carbon Monoxide Emissions from Stationary Sources. {Permitting Note: The method shall be based on a continuous sampling train.} |
| 19 | Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates. {Permitting Note: The F-factor method may also be used to determine flow rates and gas analysis to calculate mass emission rates in lieu of Methods 1-4.} |

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used without prior written approval from the Department. [Rules 62-204.800 and 62-297.100, F.A.C.; 40 CFR 60, Appendix A]

NOTIFICATIONS, RECORDS AND REPORTS

11. Construction Notifications: Within 15 days of beginning construction, the permittee shall notify the Compliance Authority that construction has commenced. Within 15 days of completing construction, the permittee shall notify the Compliance Authority that construction has concluded. Each notification shall include an updated proposed schedule of activities through the initial shakedown period and initial testing. [Rule 62-4.070(3), F.A.C.]
12. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in the facility's current Title V Air Operation Permit. For each test run, the report shall also indicate the operating load (MW), maximum heat input rate (MMBtu per hour), ambient temperature (° F), turbine inlet temperature (° F), and water-to-fuel ratio. [Rule 62-297.310(8), F.A.C.]
13. Operational Data: The permittee shall monitor and record the hours of operation utilizing SPRINT. [Rule 62-4.070(3), F.A.C.]
14. PSD Applicability Report: Before March 1st of each year, the permittee shall submit a report to the Bureau of Air Regulation and the Compliance Authority summarizing actual annual emissions for the previous calendar year. The reports shall be submitted for five separate years that are representative of normal post-change operations after completing construction of the SPRINT project. The reports shall begin during the first full year that the SPRINT technology is in use and continue for five years. Reports are subject to the following conditions.
- Actual emissions for a given year in the future shall be determined by the tested emission rates for that year and the actual hours of operation during the calendar year. Pursuant to Department Rule 62-210.370, F.A.C., the owner or operator shall employ, on a pollutant-specific basis, the most accurate of the approaches described in the Rule to compute the emissions of a pollutant from an emissions unit. If the emissions unit is equipped with a continuous emissions monitoring system (CEMS) meeting the applicable certification and quality assurance requirements of 40 CFR Part 60, the owner or operator shall use such CEMS to compute the emissions of the pollutant.

SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

- b. The total "baseline actual emissions" for Unit 1 and Unit 2 (2-year average) are 180 tons per year of carbon monoxide and 272 tons per year of nitrogen oxides.
- c. In accordance with Rule 62-210.200(247), F.A.C., the permittee may "exclude that portion of the unit's emissions following the project that an existing unit could have accommodated during the consecutive 24-month period used to establish the baseline actual emissions and that are also unrelated to the particular project including any increased utilization due to product demand growth".
- d. The permittee shall quantify any excluded emissions and provide a rationale.
- e. The annual report shall compare actual emissions calculated for a given year with the baseline actual emissions identified above. If the comparison shows an increase in actual emissions greater than the PSD significant emission rates defined in Rule 62-210.200, F.A.C., then Unit 1 and Unit 2 shall be subject to PSD preconstruction review at that time. The review shall include a determination of the Best Available Control Technology (BACT) for each PSD-significant pollutant.

[Rules 62-204.800, 62-210.200, 62-212.300(1)(e)1., 62-212.400, and 62-210.370, F.A.C.; and 40 CFR 52.21(b)(41)(ii)(c)]

SECTION 4. APPENDIX C
COMMON STATE REGULATORY REQUIREMENTS

{Permitting Note: Unless otherwise specified by 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 Allowed:** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]
4. **Excess Emissions Prohibited:** Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]
5. **Excess Emissions - Notification:** In case of excess emissions resulting from malfunctions, the permittee shall notify the Department or the appropriate Local Program in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]
6. **VOC or OS Emissions:** No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]
7. **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(217), F.A.C.]
8. **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.]
9. **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

10. **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.]

SECTION 4. APPENDIX C
COMMON STATE REGULATORY REQUIREMENTS

11. 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.]
12. 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.]
13. 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.]
14. 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.]
15. 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.
16. 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.]
17. 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.]
18. 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

SECTION 4. APPENDIX C
COMMON STATE REGULATORY REQUIREMENTS

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.
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

19. 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.]
20. 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.]

SECTION 4. APPENDIX GC

General Permit 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 any 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

SECTION 4. APPENDIX GC

General Permit Conditions

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.

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 (previously applicable to gas turbines).
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.



Florida Department of Environmental Protection

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

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

June 4, 2008

Electronic Mail – Received Receipt Requested.

Mr. Thomas A. Grace, Manager – Environmental, Health & Safety
Lake Cogen, Ltd.
39001 Golden Gem Drive
Umatilla, Florida 32784

Re: Draft/Proposed Permit No. 0694801-009-AV
Lake Cogen, Ltd., Lake Cogeneration Facility
Title V Air Operation Permit Revision
Clean Air Interstate Rule Part

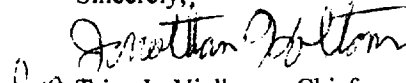
Dear Mr. Grace:

On May 16, 2008, you submitted a Clean Air Interstate Rule (CAIR) Part Form (DEP Form No. 62-210.900(1)(b)) for incorporation into the Title V air operation permit for the Lake Cogeneration Facility. This facility is located in Lake County at 39001 Golden Gem Drive, Umatilla, Florida. Enclosed are the following documents:

- The proposed Draft/Proposed Title V Air Operation Permit Revision includes the CAIR Part which specifies that the owner/operator will operate the facility and each CAIR unit at the facility in accordance with 40 Code of Federal Regulations (CFR) 96 and Rule 62-296.470, Florida Administrative Code (F.A.C.).
- The Statement of Basis, which summarizes the facility, the equipment, the primary rule applicability, and any changes since the last Title V air operation permit revision.
- The Written Notice of Intent to Issue Title V Air Operation Permit Revision 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 revised Draft/Proposed Permit; the process for filing a petition for an administrative hearing; and the availability of mediation.
- The Public Notice of Intent to Issue Title V Air Operation Permit Revision 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. The Public Notice of Intent to Issue Title V Air Operation Permit Revision must be published as soon as possible and the proof of publication must be provided to the Department within seven days of the date of publication.

If you have any questions, please contact the Project Engineer, Tom Cascio, by telephone at 850-921-9526 or by email at tom.cascio@dep.state.fl.us.

Sincerely,


Trina L. Vielhauer, Chief
Bureau of Air Regulation

TLV/raw/tbc

Enclosures

WRITTEN NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION

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

Lake Cogen, Ltd.
39001 Golden Gem Drive
Umatilla, Florida 32784

Draft/Proposed Permit No. 0694801-009-AV
Facility ID No. 0694801
Lake Cogeneration Facility
Title V Permit Revision
Lake County, Florida

Responsible Official:

Mr. Thomas A. Grace, Manager – Environmental, Health
& Safety

Facility Location: Lake Cogen, Ltd. operates the Lake Cogeneration Facility, which is located at 39001 Golden Gem Drive, Umatilla in Lake County, Florida.

Project: The applicant has submitted a complete and certified Clean Air Interstate Rule (CAIR) Part Form and has requested its incorporation into the existing Title V air operation permit. Details of the project are provided in the application and the enclosed Statement of Basis.

The existing facility consists of the following emissions units:

Currently at the plant site are two nominal 42.0 megawatt (MW) combined cycle combustion turbines with duct burners that exhaust through heat recovery steam generators (HRSG) which are used to power a nominal 26.5 MW steam turbine. Nitrogen oxides (NO_x) emissions are controlled by using water injection. The facility also includes a fuel oil storage tank (170,000 gallon).

Permitting Authority: Applications for Title V air operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-213 and 62-296.470 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and a Title V air operation permit is required to operate the facility. The 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 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #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 the address indicated above for the Permitting Authority. The complete project file includes the Draft/Proposed Permit, the Statement of Basis, the CAIR Part Form, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the Draft/Proposed Permit by visiting the following website: <http://www.dep.state.fl.us/air/eproducts/apds/default.asp> and entering the permit number shown above. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or 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 the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 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/Proposed 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 Sections 403.815 and 403.087, F.S. and Rules 62-110.106 and 62-210.350(3),

Lake Cogen, Ltd.
Lake Cogeneration Facility

Draft/Proposed Permit No. 0694801-009-AV
CAIR Part

WRITTEN NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION

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

Comments: The Permitting Authority will accept written comments concerning the draft/proposed Title V air operation permit for a period of 30 days from the date of publication of the Public Notice. Written comments must be received by the close of business (5:00 p.m.), on or before the end of this 30-day period by the Permitting Authority at the above address. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location on the official web site for notices at Florida Administrative Weekly (FAW) at <http://faw.dos.state.fl.us/> and in a newspaper of general circulation in the area affected by the permitting action. For additional information, contact the Permitting Authority at the above address or phone number. If written comments or comments received at a public meeting result in a significant change to the Draft/Proposed Permit, the Permitting Authority shall issue a Revised Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

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 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 14 days of publication of the attached Public Notice or within 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 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A

WRITTEN NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION

statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

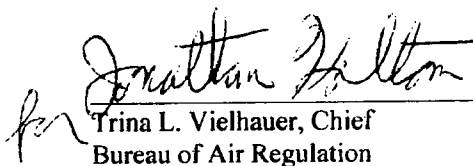
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written Notice of Intent to Issue Air Permit. Persons whose substantial interests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

Mediation: Mediation is not available in this proceeding.

EPA Review: EPA has agreed to treat the Draft/Proposed Title V air operation permit as a Proposed Title V air operation permit and to perform its 45-day review provided by the law and regulations concurrently with the public comment period. Although EPA's 45-day review period will be performed concurrently with the public comment period, the deadline for submitting a citizen petition to object to the EPA Administrator will be determined as if EPA's 45-day review period is performed after the public comment period has ended. The Final Title V air operation permit will be issued after the conclusion of the 45-day EPA review period so long as no adverse comments are received that results in a different decision or significant change of terms or conditions. The status regarding EPA's 45-day review of this project and the deadline for submitting a citizen petition can be found at the following website address: <http://www.epa.gov/region4/air/permits/Florida.htm>.

Objections: Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 days of the expiration of the Administrator's 45-day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any Title V air operation permit. Any petition shall be based only on objections to the Permit that were raised with reasonable specificity during the 30-day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at <http://www.epa.gov/region4/air/permits/Florida.htm>.

Executed in Tallahassee, Florida.


Trina L. Vielhauer, Chief
Bureau of Air Regulation

WRITTEN NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION

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 Statement of Basis, and the Draft/Proposed Permit) was sent by electronic mail with received receipt requested before the close of business on 6/10/08 to the persons listed below.

Thomas A. Grace, Lake Cogen, Ltd.: tgrace@caithnessenergy.com

Gracy Danois, U.S. EPA Region 4: danois.gracy@epa.gov

Jim Bradner, P.E., Central District Office: James.Bradner@dep.state.fl.us

Ms. Barbara Friday, DEP BAR: Barbara.Friday@dep.state.fl.us (for posting with U.S. EPA, Region 4)

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.

Barbara J. Friday 6/10/08
(Clerk) (Date)

PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION

there is sufficient interest for a public meeting, it will publish notice of the time, date, and location on the official web site for notices at Florida Administrative Weekly (FAW) at <http://faw.dos.state.fl.us/> and in a newspaper of general circulation in the area affected by the permitting action. For additional information, contact the Permitting Authority at the above address or phone number. If written comments or comments received at a public meeting result in a significant change to the Draft/Proposed Permit, the Permitting Authority shall issue a Revised Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

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 14 days of publication of this Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

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

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

Mediation: Mediation is not available for this proceeding.

EPA Review: EPA has agreed to treat the Draft/Proposed Title V air operation permit as a Proposed Title V air operation permit and to perform its 45-day review provided by the law and regulations concurrently with the public comment period. Although EPA's 45-day review period will be performed concurrently with the public comment period, the deadline for submitting a citizen petition to object to the EPA Administrator will be determined as if EPA's 45-day review period is performed after the public comment period has ended. The Final Title V air operation permit will be issued after the conclusion of the 45-day EPA review period so long

PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION

Florida Department of Environmental Protection
Division of Air Resource Management, Bureau of Air Regulation
Draft/Proposed Air Permit No. 0694801-009-AV
Lake Cogen, Ltd., Lake Cogeneration Facility
Lake County, Florida

Applicant: The applicant for this project is Lake Cogen, Ltd. The applicant's authorized representative and mailing address is: Mr. Thomas A. Grace, Manager – Environmental, Health & Safety, Lake Cogen, Ltd., Lake Cogeneration Facility, 39001 Golden Gem Drive, Umatilla, Florida 32784.

Facility Location: Lake Cogen, Ltd. operates the existing Lake Cogeneration Facility, which is located in Lake County at 39001 Golden Gem Drive, Umatilla, Florida.

Project: The applicant has submitted a complete and certified Clean Air Interstate Rule (CAIR) Part Form and has requested its incorporation into the existing Title V air operation permit.

The existing facility consists of the following emissions units: Currently at the plant site are two nominal 42.0 megawatt (MW) combined cycle combustion turbines with duct burners that exhaust through heat recovery steam generators (HRSG) which are used to power a nominal 26.5 MW steam turbine. Nitrogen oxides (NO_x) emissions are controlled by using water injection. The facility also includes a fuel oil storage tank (170,000 gallon).

Permitting Authority: Applications for Title V air operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-213 and 62-296.470 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and a Title V air operation permit is required to operate the facility. The 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 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #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 the address indicated above for the Permitting Authority. The complete project file includes the Draft/Proposed Permit, the Statement of Basis, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the Draft/Proposed Permit by visiting the following website: <http://www.dep.state.fl.us/air/eproducts/apds/default.asp> and entering the permit number shown above. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or 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, 62-213, 62-214, 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/Proposed 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 Draft/Proposed Title V air operation Permit for a period of 30 days from the date of publication of this Public Notice. Written comments must be received by the close of business (5:00 p.m.), on or before the end of this 30-day period by the Permitting Authority at the above address. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines

(Public Notice to be Published in the Newspaper)

PUBLIC NOTICE OF INTENT TO ISSUE TITLE V AIR OPERATION PERMIT REVISION

as no adverse comments are received that results in a different decision or significant change of terms or conditions. The status regarding EPA's 45-day review of this project and the deadline for submitting a citizen petition can be found at the following website address: <http://www.epa.gov/region4/air/permits/Florida.htm>.

Objections: Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 days of the expiration of the Administrator's 45-day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any Title V air operation permit. Any petition shall be based only on objections to the Permit that were raised with reasonable specificity during the 30-day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at <http://www.epa.gov/region4/air/permits/Florida.htm>.

STATEMENT OF BASIS

PROJECT DESCRIPTION

On May 16, 2008, the applicant submitted a CAIR Part Form in order to incorporate the Clean Air Interstate Rule provisions into Title V permit 0694801-007-AV.

FACILITY DESCRIPTION

The existing facility consists of the following emissions units: Currently at the plant site are two nominal 42.0 megawatt (MW) combined cycle combustion turbines with duct burners that exhaust through heat recovery steam generators (HRSG) which are used to power a nominal 26.5 MW steam turbine. Nitrogen oxides (NO_x) emissions are controlled by using water injection. The facility also includes a fuel oil storage tank (170,000 gallon).

PRIMARY REGULATORY REQUIREMENTS

The existing facility is regulated under:

Title III: The facility is not identified as a potential 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, Florida Administrative Code (F.A.C.).

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

NSPS: The facility operates units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

CAIR: The facility is subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

APPLICABLE REGULATIONS

In addition to federal rules above, this facility is subject to the following state rules:

| APPLICABLE REGULATIONS | EU ID |
|---|----------|
| Rule 62-4, F.A.C. (Permitting Requirements) | 003, 004 |
| Rule 62-204, F.A.C. (Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference) | |
| Rule 62-210, F.A.C. (Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms) | |
| Rule 62-212, F.A.C. (Preconstruction Review, PSD Review and BACT) | |
| Rule 62-213, F.A.C. (Title V Air Operation Permits for Major Sources of Air Pollution) | |
| Rule 62-296, F.A.C. (Emission Limiting Standards) | |
| Rule 62-297, F.A.C. (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures) | |
| NSPS - 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines, adopted and incorporated by reference in Rule 62-204.800 | |
| NSPS - 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, adopted and incorporated by reference in Rule 62-204.800 | |
| AC35-196459, 0694801-008-AC | |

PROJECT REVIEW

The CAIR Part Form is now a part of this permit and has been incorporated as Section IV, CAIR Part Form. This section identifies the units that must comply with the standard requirements and special provisions set forth in the CAIR Part Form.

STATEMENT OF BASIS

CONCLUSION

This project revises Title V air operation permit No. 0694801-007-AV, which was issued on December 31, 2007. This Title V Air Operation Permit Revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-210 and 62-213, F.A.C. In accordance with the terms and conditions of this permit, the above named permittee is hereby authorized to operate the facility as shown on the application and approved drawings, plans, and other documents, on file with the permitting authority.

SECTION IV. CAIR PART FORM
CLEAN AIR INTERSTATE RULE PROVISIONS

Clean Air Interstate Rule (CAIR).

Operated by: Lake Cogen, Ltd.
Plant: Lake Cogeneration Facility
ORIS Code: 54423

The emissions units below are regulated under the Clean Air Interstate Rule.

| EU No. | EPA Unit ID# | Brief Description |
|---------------|---------------------|--|
| 003 | 3 | Combined Cycle Combustion Turbine (CT)/Duct Burner |
| 004 | 4 | Combined Cycle Combustion Turbine (CT)/Duct Burner |

1. Clean Air Interstate Rule Application. The Clean Air Interstate Rule Part Form submitted for this facility is a part of this permit. The owners and operators of these CAIR units as identified in this form must comply with the standard requirements and special provisions set forth in the CAIR Part Form (DEP Form No. 62-210.900(1)(b)) dated March 16, 2008, which is attached at the end of this section. [Chapter 62-213, F.A.C. and Rule 62-210.200, F.A.C.]

SECTION IV. CAIR PART FORM
CLEAN AIR INTERSTATE RULE PROVISIONS

STEP 3

**Read the
standard
requirements.**

Lake Cogen, Ltd. (54423)
Plant Name (from STEP 1)

CAIR NO_x ANNUAL TRADING PROGRAM

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR NO_x source and each CAIR NO_x unit at the source shall:
 - (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.122 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
 - (ii) [Reserved];
- (2) The owners and operators of each CAIR NO_x source and each CAIR NO_x unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CC, and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR NO_x source and each CAIR NO_x unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HH, and Rule 62-296.470, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HH, shall be used to determine compliance by each CAIR NO_x source with the following CAIR NO_x Emissions Requirements.

NO_x Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x source and each CAIR NO_x unit at the source shall hold, in the source's compliance account, CAIR NO_x allowances available for compliance deductions for the control period under 40 CFR 96.154(a) in an amount not less than the tons of total NO_x emissions for the control period from all CAIR NO_x units at the source, as determined in accordance with 40 CFR Part 96, Subpart HH.
- (2) A CAIR NO_x unit shall be subject to the requirements under paragraph (1) of the NO_x Requirements starting on the later of January 1, 2009, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.170(b)(1) or (2) and for each control period thereafter.
- (3) A CAIR NO_x allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO_x Requirements, for a control period in a calendar year before the year for which the CAIR NO_x allowance was allocated.
- (4) CAIR NO_x allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FF and GG.
- (5) A CAIR NO_x allowance is a limited authorization to emit one ton of NO_x in accordance with the CAIR NO_x Annual Trading Program. No provision of the CAIR NO_x Annual Trading Program, the CAIR Part, or an exemption under 40 CFR 96.105 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR NO_x allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EE, FF, or GG, every allocation, transfer, or deduction of a CAIR NO_x allowance to or from a CAIR NO_x unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO_x unit.

Excess Emissions Requirements.

If a CAIR NO_x source emits NO_x during any control period in excess of the CAIR NO_x emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NO_x unit at the source shall surrender the CAIR NO_x allowances required for deduction under 40 CFR 96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the CAIR NO_x source and each CAIR NO_x unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the DEP or the Administrator.
 - (i) The certificate of representation under 40 CFR 96.113 for the CAIR designated representative for the source and each CAIR NO_x unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.113 changing the CAIR designated representative.
 - (ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Annual Trading Program.
 - (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO_x Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NO_x Annual Trading Program.
- (2) The CAIR designated representative of a CAIR NO_x source and each CAIR NO_x unit at the source shall submit the reports required under the CAIR NO_x Annual Trading Program, including those under 40 CFR Part 96, Subpart HH.

SECTION IV. CAIR PART FORM
CLEAN AIR INTERSTATE RULE PROVISIONS

**STEP 3,
Continued**

Lake Cogen, Ltd. (54423)

Plant Name (from STEP 1)

Liability.

- (1) Each CAIR NO_x source and each CAIR NO_x unit shall meet the requirements of the CAIR NO_x Annual Trading Program.
- (2) Any provision of the CAIR NO_x Annual Trading Program that applies to a CAIR NO_x source or the CAIR designated representative of a CAIR NO_x source shall also apply to the owners and operators of such source and of the CAIR NO_x units at the source.
- (3) Any provision of the CAIR NO_x Annual Trading Program that applies to a CAIR NO_x unit or the CAIR designated representative of a CAIR NO_x unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR NO_x Annual Trading Program, a CAIR Part, or an exemption under 40 CFR 96.105 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x source or CAIR NO_x unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

CAIR SO₂ TRADING PROGRAM

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall:
 - (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.222 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
 - (ii) [Reserved];
- (2) The owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CCC, for the source and operate the source and each CAIR unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR SO₂ source and each SO₂ CAIR unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HHH, and Rule 62-296.470, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH, shall be used to determine compliance by each CAIR SO₂ source with the following CAIR SO₂ Emission Requirements.

SO₂ Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO₂ allowances available for compliance deductions for the control period, as determined in accordance with 40 CFR 96.254(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO₂ units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHH.
- (2) A CAIR SO₂ unit shall be subject to the requirements under paragraph (1) of the Sulfur Dioxide Emission Requirements starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.270(b)(1) or (2) and for each control period thereafter.
- (3) A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the SO₂ Emission Requirements, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.
- (4) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFF and GGG.
- (5) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ Trading Program, the CAIR Part, or an exemption under 40 CFR 96.205 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR SO₂ allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or GGG, every allocation, transfer, or deduction of a CAIR SO₂ allowance to or from a CAIR SO₂ unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR SO₂ unit.

Excess Emissions Requirements.

If a CAIR SO₂ source emits SO₂ during any control period in excess of the CAIR SO₂ emissions limitation, then:

- (1) The owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ allowances required for deduction under 40 CFR 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable state law.

SECTION IV. CAIR PART FORM
CLEAN AIR INTERSTATE RULE PROVISIONS

Lake Cogen, Ltd. (54423)

Plant Name (from STEP 1)

**STEP 3,
Continued**

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the CAIR SO₂ source and each CAIR SO₂ unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Department or the Administrator.
 - (i) The certificate of representation under 40 CFR 96.213 for the CAIR designated representative for the source and each CAIR SO₂ unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.213 changing the CAIR designated representative.
 - (ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO₂ Trading Program.
 - (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR SO₂ Trading Program or to demonstrate compliance with the requirements of the CAIR SO₂ Trading Program.
- (2) The CAIR designated representative of a CAIR SO₂ source and each CAIR SO₂ unit at the source shall submit the reports required under the CAIR SO₂ Trading Program, including those under 40 CFR Part 96, Subpart HHH.

Liability.

- (1) Each CAIR SO₂ source and each CAIR SO₂ unit shall meet the requirements of the CAIR SO₂ Trading Program.
- (2) Any provision of the CAIR SO₂ Trading Program that applies to a CAIR SO₂ source or the CAIR designated representative of a CAIR SO₂ source shall also apply to the owners and operators of such source and of the CAIR SO₂ units at the source.
- (3) Any provision of the CAIR SO₂ Trading Program that applies to a CAIR SO₂ unit or the CAIR designated representative of a CAIR SO₂ unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR SO₂ Trading Program, a CAIR Part, or an exemption under 40 CFR 96.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR SO₂ source or CAIR SO₂ unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

CAIR NO_x OZONE SEASON TRADING PROGRAM

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall:
 - (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.322 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
 - (ii) [Reserved];
- (2) The owners and operators of each CAIR NO_x Ozone Season source required to have a Title V operating permit or air construction permit, and each CAIR NO_x Ozone Season unit required to have a Title V operating permit or air construction permit at the source shall have a CAIR Part included in the Title V operating permit or air construction permit issued by the DEP under 40 CFR Part 96, Subpart CCCC, for the source and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HHHH, and Rule 62-296.470, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHHH, shall be used to determine compliance by each CAIR NO_x Ozone Season source with the following CAIR NO_x Ozone Season Emissions Requirements.

NO_x Ozone Season Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_x Ozone Season allowances available for compliance deductions for the control period under 40 CFR 96.354(a) in an amount not less than the tons of total NO_x emissions for the control period from all CAIR NO_x Ozone Season units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHHH.
- (2) A CAIR NO_x Ozone Season unit shall be subject to the requirements under paragraph (1) of the NO_x Ozone Season Emission Requirements starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.370(b)(1), (2), or (3) and for each control period thereafter.
- (3) A CAIR NO_x Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO_x Ozone Season Emission Requirements, for a control period in a calendar year before the year for which the CAIR NO_x Ozone Season allowance was allocated.
- (4) CAIR NO_x Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Ozone Season Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFFF and GGGG.
- (5) A CAIR NO_x Ozone Season allowance is a limited authorization to emit one ton of NO_x in accordance with the CAIR NO_x Ozone Season Trading Program. No provision of the CAIR NO_x Ozone Season Trading Program, the CAIR Part, or an exemption under 40 CFR 96.305 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR NO_x Ozone Season allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EEEE, FFFF or GGGG, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from a CAIR NO_x Ozone Season unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO_x Ozone Season unit.

SECTION IV. CAIR PART FORM
CLEAN AIR INTERSTATE RULE PROVISIONS

Plant Name (from STEP 1) **Lake Cogen, Ltd. (54423)**

**STEP 3,
Continued**

Excess Emissions Requirements.

If a CAIR NO_x Ozone Season source emits NO_x during any control period in excess of the CAIR NO_x Ozone Season emissions limitation, then:
(1) The owners and operators of the source and each CAIR NO_x Ozone Season unit at the source shall surrender the CAIR NO_x Ozone Season allowances required for deduction under 40 CFR 96.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAAA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the DEP or the Administrator.

(i) The certificate of representation under 40 CFR 96.313 for the CAIR designated representative for the source and each CAIR NO_x Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.113 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Ozone Season Trading Program.

(iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO_x Ozone Season Trading Program or to demonstrate compliance with the requirements of the CAIR NO_x Ozone Season Trading Program.

(2) The CAIR designated representative of a CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall submit the reports required under the CAIR NO_x Ozone Season Trading Program, including those under 40 CFR Part 96, Subpart HHHH.

Liability.

(1) Each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit shall meet the requirements of the CAIR NO_x Ozone Season Trading Program.

(2) Any provision of the CAIR NO_x Ozone Season Trading Program that applies to a CAIR NO_x Ozone Season source or the CAIR designated representative of a CAIR NO_x Ozone Season source shall also apply to the owners and operators of such source and of the CAIR NO_x Ozone Season units at the source.

(3) Any provision of the CAIR NO_x Ozone Season Trading Program that applies to a CAIR NO_x Ozone Season unit or the CAIR designated representative of a CAIR NO_x Ozone Season unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

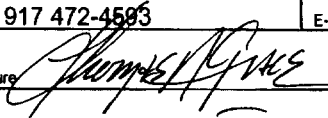
No provision of the CAIR NO_x Ozone Season Trading Program, a CAIR Part, or an exemption under 40 CFR 96.305 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x Ozone Season source or CAIR NO_x Ozone Season unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

STEP 4

Certification (for designated representative or alternate designated representative only)

**Read the
certification
statement; provide
name, title, owner
company name,
phone, and e-mail
address; sign, and
date.**

I am authorized to make this submission on behalf of the owners and operators of the CAIR source or CAIR units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

| | |
|---|--|
| Name Thomas Grace | Title Mgr., E, H & S |
| Company Owner Name Lake Cogen, Ltd. | |
| Phone 917 472-4593 | E-mail Address tgrace@caithnessenergy.com |
| Signature  | Date 05/22/08 |

Zahm, Alan

From: Koerner, Jeff
Sent: Tuesday, January 13, 2009 8:37 AM
To: Walker, Elizabeth (AIR)
Cc: Zahm, Alan; Linero, Alvaro; Holtom, Jonathan
Subject: Lake Cogen

Elizabeth,

Al received a phone call from CD office regarding the status for the following projects for Lake Cogen.

0694801-010-AC - Request to revise PSD permit for heat input rate

0694801-010-AV - Concurrent Title V revision

Although the District and Local programs typically handle the Title V permits for these types of facilities, we will handle this pair.

Please transfer these to me.

Thanks!

Jeff Koerner, BAR - New Source Review Section
Florida Department of Environmental Protection
850/921-9536

P.S. Alan, please send me the hard copy of the application.