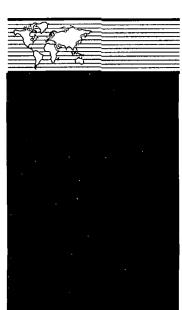
## RECEIVED

FEB 17 2011

BUREAU OF AIR REGULATION



# TITLE V AIR OPERATION PERMIT REVISION APPLICATION

Jacksonville Electric Authority
Northside Generating Station,
St. Johns River Power Park

Prepared For: Jacksonville Electric Authority

21 West Church Street Jacksonville, FL 32202

Submitted By: Golder Associates Inc.

6026 NW 1st Place Gainesville, FL 32607

Distribution: 4 Copies - FDEP

2 Copies - JEA

2 Copies - Golder Associates Inc.

A world of capabilities

February 2011

113-87543



APPLICATION FOR AIR PERMIT

LONG FORM



## Department of Environmental Protection

## **Division of Air Resource Management**

#### **APPLICATION FOR AIR PERMIT - LONG FORM**

#### I. APPLICATION INFORMATION

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

- For 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: Jacksonville Electric Authority (JEA)

| 1.        | Facility Owner/Company Name: Jacksonville Electric Authority (JEA)                              |   |                        |  |  |  |  |
|-----------|---|---|------------------------|--|--|--|--|
| 2.        | Site Name: Northside Generating Station/St. Johns River Power Park/ Separations Technology, LLC |   |                        |  |  |  |  |
| 3.        | Facility Identification Number: 0310045   | Facility Identification Number: 0310045 |                        |  |  |  |  |
| 4.        | Facility Location   |   |                        |  |  |  |  |
|           | Street Address or Other Locator: 4377 Heck  | kscher Drive                            |                        |  |  |  |  |
|           | City: Jacksonville County: I  | Duval                                   | Zip Code: <b>32226</b> |  |  |  |  |
| 5.        | Relocatable Facility?   | 6. Existing Title                       | V Permitted Facility?  |  |  |  |  |
|           | ☐ Yes ☐ No  | ⊠ Yes                                   | □ No                   |  |  |  |  |
| <u>Ap</u> | plication Contact   |   |                        |  |  |  |  |
| 1.        | Application Contact Name: N. Bert Gianazz   | a, P.E., Environme                      | ntal Services          |  |  |  |  |
| 2.        | Application Contact Mailing Address Organization/Firm: <b>JEA</b>                               |   |                        |  |  |  |  |
|           | Street Address: 21 West Church Street   |   |                        |  |  |  |  |
|           | City: Jacksonville Sta  | ate: FL                                 | Zip Code: <b>32202</b> |  |  |  |  |
| 3.        | Application Contact Telephone Numbers   |   |                        |  |  |  |  |
|           | Telephone: (904) 665-6247 ext. Fax: (904) 665 - 7376  |   |                        |  |  |  |  |
| 4.        | Application Contact E-mail Address: Gian  | NB@jea.com                              |                        |  |  |  |  |
| <u>Ap</u> | Application Processing Information (DEP Use)  |   |                        |  |  |  |  |
|           | Date of Receipt of Application: 2-  | 3. PSD Number                           | er (if applicable):    |  |  |  |  |
| 2.        | Project Number(s):0310045-030-A   | 4. Siting Numl                          | per (if applicable):   |  |  |  |  |

#### **Purpose of Application**

| Th          | This application for air permit is being submitted to obtain: (Check one)   |  |  |  |  |
|-------------|---|--|--|--|--|
| Aiı         | r 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. |  |  |  |  |
| Aiı         | r Operation Permit  |  |  |  |  |
|             | Initial Title V air operation permit.   |  |  |  |  |
| $\boxtimes$ | 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.  |  |  |  |  |
|             | r Construction Permit and Revised/Renewal Title V Air Operation Permit oncurrent 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**

JEA is requesting through this permit revision application to incorporate the provisions of Air Construction Permit No. 0310045-026-AC into the current Title V Operating Permit. Particularly, JEA requests specific condition No. 3 to be added to the permit, which requires the annual reporting of PSD pollutants emissions for a period of 5 years. The permit authorized the repair, replacement, and maintenance of various equipment and components on existing Unit No. 3 (EU 003).

## **Scope of Application**

| Emissions<br>Unit ID<br>Number | Description of Emissions Unit | Air<br>Permit<br>Type | Air Permit<br>Processing<br>Fee |
|--------------------------------|-------------------------------|-----------------------|---------------------------------|
| 003                            | NGS Boiler No. 3              |                       | N/A                             |
|                                |                               |                       |                                 |
|                                |                               |                       |                                 |
|                                |                               |                       |                                 |
|                                |                               |                       |                                 |
|                                |                               |                       |                                 |
| _                              |                               |                       |                                 |
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|                                | ·                             |                       |                                 |
| <del></del>                    |                               |                       |                                 |
| ·                              |                               |                       |                                 |
|                                |                               |                       |                                 |
|                                |                               |                       |                                 |
| <u>.</u>                       |                               |                       |                                 |

| <b>Application Processing Fee</b> |                |
|-----------------------------------|----------------|
| Check one: Attached - Amount: \$  | Not Applicable |

## **Owner/Authorized Representative Statement**

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

| 1. | Owner/Authorized Representative   | Name:           |      |         |     |
|----|---|-----------------|------|---------|-----|
| 2. | Owner/Authorized Representative Organization/Firm:  | Mailing Address |      |         |     |
|    | Street Address:   |                 |      |         |     |
|    | City:   | State:          |      | Zip Coo | de: |
| 3. | Owner/Authorized Representative   | Telephone Num   | bers |         |     |
|    | Telephone: ( )  | ext.            | Fax: | (       | )   |
| 4. | Owner/Authorized Representative   | E-mail Address: |      |         |     |
| 5. | Owner/Authorized Representative   | Statement:      | _    |         |     |
|    | 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. |                 |      |         |     |
|    | Signature   |                 | Date |         |     |

## **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."

| primary responsible official.   |  |  |  |  |
|---|--|--|--|--|
| 1. Application Responsible Official Name:  James M. Chansler, P.E., D.P.A., Chief Operations Officer  |  |  |  |  |
| Application Responsible Official Qualification (Check one or more of the following options, as applicable):   |  |  |  |  |
| 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. |  |  |  |  |
| <ul> <li>For a partnership or sole proprietorship, a general partner or the proprietor, respectively.</li> <li>For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.</li> <li>The designated representative at an Acid Rain source or CAIR source.</li> </ul>   |  |  |  |  |
|   |  |  |  |  |
| 3. Application Responsible Official Mailing Address  Organization/Firm: Jacksonville Electric Authority   |  |  |  |  |
| ·   |  |  |  |  |
| Street Address: 21 West Church Street   |  |  |  |  |
| City: Jacksonville State: FL Zip Code: 32202  |  |  |  |  |
| 4. Application Responsible Official Telephone Numbers Telephone: (904) 665 - 4433 ext. Fax: (904) 665 - 4238  |  |  |  |  |
| 5. Application Responsible Official E-mail Address: chanjm@jea.com  |  |  |  |  |
| 6. Application Responsible Official Certification:  |  |  |  |  |
| I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry,  |  |  |  |  |
| that the statements made in this application are true, accurate and complete and that, to the best  |  |  |  |  |
| of my knowledge, any estimates of emissions reported in this application are based upon   |  |  |  |  |
| reasonable techniques for calculating emissions. The air pollutant emissions units and air  |  |  |  |  |
| pollution control equipment described in this application will be operated and maintained so as   |  |  |  |  |
| to comply with all applicable standards for control of air pollutant emissions found in the   |  |  |  |  |
| statutes of the State of Florida and rules of the Department of Environmental Protection and  |  |  |  |  |
| revisions thereof and all other applicable requirements identified in this application to which   |  |  |  |  |
| the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the  |  |  |  |  |
| 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.  |  |  |  |  |
| Jame R. Chaush All  |  |  |  |  |
| Signature Date  |  |  |  |  |

DEP Form No. 62-210.900(1) – Form Effective: 03/11/2010

## **Professional Engineer Certification**

| 1  | Professional Engineer Name: Kennard F. Kosky  |  |  |  |  |
|----|---|--|--|--|--|
| 1. | Registration Number: 14996  |  |  |  |  |
| 2. | Professional Engineer Mailing Address   |  |  |  |  |
| ٠. | Organization/Firm: Golder Associates Inc.**   |  |  |  |  |
|    | Street Address: 6026 NW 1st Place   |  |  |  |  |
|    | City: Gainesville State: FL Zip Code: 32607   |  |  |  |  |
| 3. | Professional Engineer Telephone Numbers   |  |  |  |  |
|    | Telephone: (352) 336-5600 ext. 21156 Fax: (352) 336-6603  |  |  |  |  |
| 4. | Professional Engineer E-mail Address:   |  |  |  |  |
| 5. | Professional Engineer Statement:  |  |  |  |  |
|    | I, the undersigned, hereby certify, except as particularly noted herein*, that:   |  |  |  |  |
|    | (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and  |  |  |  |  |
|    | (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.   |  |  |  |  |
|    | (3) If the purpose of this application is to obtain a Title V air operation permit (check here \sum, if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.  |  |  |  |  |
|    | (4) If the purpose of this application is to obtain an air construction permit (check here $\square$ , 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 $\square$ , if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application. |  |  |  |  |
|    | (5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here \( \subseteq \), 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.  |  |  |  |  |
|    | Signature (seal) Date   |  |  |  |  |

\* Attach any exception to certification statement.

\*\*Board of Professional Engineers Certificate of Authorization #00001670.

DEP Form No. 62-210 900(a))—Form Effective: 03/11/2010

#### II. FACILITY INFORMATION

#### A. GENERAL FACILITY INFORMATION

#### **Facility Location and Type**

| 1. | Zone 17 East (km) 446.90  North (km) 3359.15 |                         | 2. Facility Latitude/Longitude Latitude (DD/MM/SS) 30/21/52 Longitude (DD/MM/SS) 81/37/25 |                    |     |                    |
|----|--|-------------------------|---|--------------------|-----|--------------------|
| 3. | Governmental                                 | 4. Facility Status      | 5.  | Facility Major     | 6.  | Facility SIC(s):   |
|    | Facility Code:                               | Code:                   |   | Group SIC Code:    |     | 4911               |
| _  | 0  | Α                       |   | 49                 |     |                    |
| 7. | Facility Comment:                            |                         |   |                    |     | D: D D I           |
|    | (SJRPP).                                     | s the JEA Northside Ger | iera  | ing Station and St | ohn | s River Power Park |

### **Facility Contact**

| 1. | Facility Contact Name:   | ental Sorvices |                        |  |  |  |
|----|--|----------------|------------------------|--|--|--|
| 2. | N. Bert Gianazza, P.E., Environmental Services  Facility Contact Mailing Address  Organization/Firm: JEA |                |                        |  |  |  |
|    | Street Address: 21 West Chui   | rch Street     | •                      |  |  |  |
|    | City: Jacksonville   | State: FL      | Zip Code: <b>32202</b> |  |  |  |
| 3. | Facility Contact Telephone Numl  | bers:          |                        |  |  |  |
|    | Telephone: (904) 665-6247  | ext.           | Fax: (904) 665 -7376   |  |  |  |
| 4. | Facility Contact E-mail Address:   | GianNB@jea.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 O   | fficial Name:    |           |   |           |  |
|----|--|------------------|-----------|---|-----------|--|
| 2. | Facility Primary Responsible Official Mailing Address Organization/Firm: |                  |           |   |           |  |
|    | Street Address:  |                  |           |   |           |  |
|    | City:  | State:           |           |   | Zip Code: |  |
| 3. | Facility Primary Responsible Or  | fficial Telephon | e Numbers | s |           |  |
|    | Telephone: ( )   | ext.             | Fax:      | ( | )         |  |
| 4. | Facility Primary Responsible Of  | fficial E-mail A | ddress:   |   |           |  |

## **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.   Small Business Station             | nary Source                | ☐ Unknown                                   |
|---|----------------------------|---|
| 2. Synthetic Non-Title V                | Source                     |   |
| 3.   Title V Source                     |                            |   |
| 4. Major Source of Air P                | ollutants, Other than Haz  | zardous Air Pollutants (HAPs)               |
| 5. Synthetic Minor Source               | ce of Air Pollutants, Othe | er than HAPs                                |
| 6. Major Source of Hazar                | rdous Air Pollutants (HA   | APs)  |
| 7. Synthetic Minor Source               | ce of HAPs                 |   |
| 8. \( \sum \) One or More Emission      | ns Units Subject to NSPS   | G (40 CFR Part 60)                          |
| 9.  One or More Emission                | ns Units Subject to Emis   | sion Guidelines (40 CFR Part 60)            |
| 10.  One or More Emission               | s Units Subject to NESI    | HAP (40 CFR Part 61 or Part 63)             |
| 11.   Title V Source Solely             | by EPA Designation (40     | CFR 70.3(a)(5))                             |
| 12. Facility Regulatory Classi          | fications Comment:         |   |
| NGS CER Unite 1 and 2 ar                | ad C IDDD Linite 1 and 2 a | re subject to 40 CFR Part 60 Subpart Da.    |
| I NOS CED UIIIS LAIRU 4. AI             | 10 S.IREE CHIIS LAIRLA     | TR SHORECLIO AD GER EAU DU SULUAU DA        |
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## **List of Pollutants Emitted by Facility**

| 1. Pollutant Emitted       | 2. Pollutant Classification | 3. Emissions Cap      |
|----------------------------|-----------------------------|-----------------------|
| PM                         | A                           | [Y or N]? Y (for NGS) |
| PM10                       | A                           | N                     |
| NOx                        | A                           | Y (for NGS)           |
| СО                         | Α .                         | N                     |
| VOC                        | A                           | N                     |
| S02                        | A                           | Y ( for NGS)          |
| PB                         | В                           | N                     |
| Mercury (H114)             | В                           | N                     |
| SAM                        | В                           | N                     |
| HF (H107)                  | A                           | N                     |
| HCI (H106)                 | A                           | N                     |
| Formaldehyde (H095)        | Α                           | N                     |
| Hexane (H104)              | Α                           | N                     |
| Manganese compounds (H113) | Α                           | N                     |
| Nickel compounds (H133)    | A                           | N                     |
| HAPS                       | <b>A</b> .                  | N                     |

#### **B. EMISSIONS CAPS**

#### Facility-Wide or Multi-Unit Emissions Caps

| . Pollutant          | 2. Facility-        | 3. Emissions       | 4. Hourly | 5. Annual | 6. Basis for                                     |
|----------------------|---------------------|--------------------|-----------|-----------|--|
| Subject to Emissions | Wide Cap            | Unit ID's          | Cap       | Cap       | Emission   |
|                      | [Y or N]?           | Under Cap          | (lb/hr)   | (ton/yr)  | Cap  |
| Cap                  | (all units)         | (if not all units) |           |           |  |
|                      |                     |                    |           |           |  |
|                      |                     |                    |           |           |  |
|                      |                     |                    |           |           |  |
|                      |                     |                    |           |           |  |
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|                      | <u> </u>            |                    |           |           |  |
|                      |                     |                    |           |           |  |
|                      |                     |                    |           | _         | <del>                                     </del> |
|                      |                     |                    |           |           |  |
| Equility W           | ida ou Morti I Init | Emissions Com Comm |           |           |  |
| . Facility-Wi        | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| . Facility-Wi        | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| . Facility-Wi        | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| . Facility-Wi        | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| . Facility-Wi        | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| . Facility-Wi        | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| . Facility-Wi        | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| Facility-Wi          | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| Facility-Wi          | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| . Facility-Wi        | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| . Facility-Wi        | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| . Facility-Wi        | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| . Facility-Wi        | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| . Facility-Wi        | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |
| Facility-Wi          | ide or Multi-Unit   | Emissions Cap Con  | nment:    |           |  |

## 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)  Attached, Document ID: Previously Submitted, Date: July 2008   |
|-----|--|
| 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)  ☐ Attached, Document ID: ☐ Previously Submitted, Date:_July 2008  |
| 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)  Attached, Document ID:  Previously Submitted, Date: July 2008 |
| Ad  | Iditional Requirements for Air Construction Permit Applications  |
| 1.  | Area Map Showing Facility Location:  Attached, Document ID: Not Applicable (existing permitted facility)   |
| 2.  | Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL):  Attached, Document ID:  |
| 3.  | Rule Applicability Analysis:  Attached, Document ID:   |
| 4.  | List of Exempt Emissions Units:  Attached, Document ID: Not Applicable (no exempt units at facility)   |
| 5.  | Fugitive Emissions Identification:  Attached, Document ID: Not Applicable  |
| 6.  | Air Quality Analysis (Rule 62-212.400(7), F.A.C.):  ☐ Attached, Document ID: ☐ Not Applicable  |
| 7.  | Source Impact Analysis (Rule 62-212.400(5), F.A.C.):  Attached, Document ID: Not Applicable  |
| 8.  | Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.):  Attached, Document ID: Not Applicable  |
| 9.  | Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.):   |
| 10. | Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.):  Not Applicable  |

## C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

## Additional Requirements for FESOP Applications

| 1. | List of Exempt Emissions Units:  |  |  |  |  |
|----|--|--|--|--|--|
|    | Attached, Document ID: Not Applicable (no exempt units at facility)  |  |  |  |  |
| Ac | Additional Requirements for Title V Air Operation Permit Applications  |  |  |  |  |
| 1. | List of Insignificant Activities: (Required for initial/renewal applications only)  Attached, Document ID: 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)  Attached, Document ID:  |  |  |  |  |
|    | Not Applicable (revision application with no change in applicable requirements)  |  |  |  |  |
| 3. | Compliance Report and Plan: (Required for all initial/revision/renewal applications)  ⊠ Attached, Document ID: JEA-FI-CV3  |  |  |  |  |
|    | 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)  Attached, Document ID:   |  |  |  |  |
|    | ☐ Equipment/Activities Onsite but Not Required to be Individually Listed   |  |  |  |  |
|    | Not Applicable     ■   |  |  |  |  |
| 5. | Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only)  ☐ Attached, Document ID: ☐ Not Applicable   |  |  |  |  |
| 6. | Requested Changes to Current Title V Air Operation Permit:  ☑ Attached, Document ID: <u>JEA-FI-CV6</u> ☐ Not Applicable  |  |  |  |  |

## 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. 6  Attached, Document ID:  | , , , , , ,                             |
|    | ☐ Not Applicable (not an Acid Rain source)                          |   |
|    | Phase II NO <sub>X</sub> Averaging Plan (DEP Form No                |   |
|    | ☐ Attached, Document ID:  | X Previously Submitted, Date: July 2008 |
|    | New Unit Exemption (DEP Form No. 62-210                             | .900(1)(a)2.):                          |
|    | <ul><li>☐ Attached, Document ID:</li><li>☐ Not Applicable</li></ul> | Previously Submitted, Date:             |
| 2. | CAIR Part (DEP Form No. 62-210.900(1)(b))                           | :                                       |
|    |   | ✓ Previously Submitted, Date: July 2008 |
|    | Not Applicable (not a CAIR source)                                  |   |
| Ac | dditional Requirements Comment                                      |   |
|    |   |   |
|    |   |   |
|    |   |   |
|    |   |   |
|    |   |   |
| }  |   |   |
|    |   |   |
|    |   |   |
|    |   |   |

ATTACHMENT JEA-FI-CV3
COMPLIANCE REPORT AND PLAN

## ATTACHMENT JEA-FI-CV3 COMPLIANCE REPORT AND PLAN

Jacksonville Electric Authority (JEA) certifies that the Northside Generating Station (NGS), as of the date of this application, is in compliance with each applicable requirement addressed in this Title V air operation permit revision application.

I, the undersigned, am the responsible official as designed in Chapter 62-213, F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete.

Compliance statements for this facility will be submitted on an annual basis to FDEP, on or before April 1 of each year.

Signature, Responsible Official

Date



ATTACHMENT JEA-FI-CV6

REQUESTED CHANGES TO CURRENT TITLE V AIR OPERATION PERMIT

#### PERMITTEE

JEA 21 West Church Street Jacksonville, FL 32202

Authorized Representative:

Mr. James M. Chansler, P.E., D.P.A., Vice President

Air Permit No. 0310045-026-AC Permit Expires: September 1, 2011

Northside Generating Station ARMS ID No. 0310045 Unit 3 Revised Refurbishment Project

#### PROJECT AND LOCATION

This permit authorizes repair, replacement and maintenance of various equipment and components on existing Unit 3, a nominal 564 megawatt (MW) electric utility steam generating unit. The proposed work will be conducted at the Northside Generating Station, which is an electric utility power plant (Standard Industrial Classification No. 4911). The existing facility is located in Duval County at 4377 Heckscher Drive in Jacksonville, Florida. The UTM coordinates are Zone 17; 446.9 km East and 3359.15 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit. As noted in the Final Determination provided with this final permit, only minor changes and clarifications were made to the draft permit.

#### STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

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

Joseph Kahn, Director (Date)

Division of Air Resource Management

## CERTIFICATE OF SERVICE

| The undersigned duly designated deputy agen   | cy clerk hereby certifies that this Final Air  | Permit package          |
|---|--|-------------------------|
| (including the Final Determination and Final  | Permit with Appendices) was sent by electr   | onic mail, or a link to |
| these documents made available electronically   | y on a publicly accessible server, with recei  | ived receipt requested  |
| before the close of business on   | to the persons listed below.   |                         |
| Mr. James Chansler, JEA (chanjm@jea.com) Mr. N. Bert Gianazza, JEA (gianNB@jea.com) Ms. Rita Felton-Smith, DEP Northeast District Mr. Richard L. Robinson, Duval County Envi Mr. Mike Halpin, DEP Siting Office (mike.ha Ms. Kathleen Forney, EPA Region 4 (forney.) Ms. Ana M. Oquendo, EPA Region 4 (oquend Ms Heather Abrams, EPA Region 4 (abrams.) Ms. Vickie Gibson, DEP BAR Reading File ( | ct Office (rita.felton-smith@dep.state.fl.us) ronmental Quality Division (robinson@coj ulpin@dep.state.fl.us) kathleen@epa.gov) do.ana@epa.gov) heather@epa.gov) |                         |
|   | Clerk Stamp  |                         |
|   | FILING AND ACKNOWLEDGMEN pursuant to Section 120.52(7), Florida S designated agency clerk, receipt of which acknowledged.  | Statutes, with the      |
|   | (Clerk)  | (Date)                  |
|   |  |                         |

#### **FACILITY DESCRIPTION**

JEA operates the existing Northside Generating Station (NGS) and St. Johns River Power Park (SJRPP). The existing fossil fuel fired steam-electric plant consists of the following equipment:

- NGS Unit 1 (EU-027) and NGS Unit 2 (EU 026) are circulating fluidized bed boilers each rated at a nominal 297.5 megawatts (MW) and firing coal, petroleum coke, distillate oil and on-specification used oil;
- NGS Unit 3 (EU-003) is a fossil fuel fired boiler rated at a nominal 563.7 MW and fires natural gas, residual fuel oil, landfill gas and on-specification used oil;
- NGS Peaking Units 3, 4, 5 and 6 (EU-006 EU-009) are combustion turbines each rated at a nominal 56.2 MW firing distillate oil; and
- SJRPP Unit 1 (EU-016) and SJRPP Unit 2 (EU-017) are each fossil fuel fired boilers rated at a nominal 679.6 MW and firing pulverized coal, coal/petroleum coke blends, distillate fuel oil (startup and low-load operation) and on-specification used oil.

A fly ash processing system is also located on site, but separately owned and operated by Separation Technologies (previously Separation Technologies, Inc.).

#### FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility operates units subject to the acid rain provisions of the Clean Air Act.
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

#### PROJECT DESCRIPTION

Unit 3 (EU-003) is an existing nominal 564 megawatt electric utility steam generating unit permitted to fire residual fuel oil, natural gas, landfill gas and on-specification used oil. JEA predicts an increase in demand for power between January 2011 and December 2016. Because it may be necessary to depend on Unit 3 for at least a part of this projected demand, the applicant proposes an extensive maintenance project to ensure the reliability of Unit 3. During the Unit 3 maintenance outage scheduled for the fall of 2010, JEA proposes the repair, replacement and maintenance of various equipment and components related to the electric generator and rotor assembly, fuel oil piping, structure, induced and forced draft fans, steam tubing, soot-blowing, duct work and feed water system. JEA expects to complete the project by January 2011.

The project is not intended to regain lost capacity and will not result in any increase in the boiler heat input rate, fuel consumption or actual emissions. There are no known defects or deficiencies restricting operation and the unit can currently sustain the permitted heat input rate. Records indicate that Unit 3 is currently capable of operating at permitted capacity. Pursuant to Rule 62-212.400, F.A.C., JEA provided information to show that the project will not exceed the significant emissions rates that require preconstruction review for the Prevention of Significant Deterioration (PSD) of Air Quality. In accordance with Rule 62-212.300, F.A.C., this permit requires JEA to provide reports summarizing the actual emissions for each year during the five-year period following completion of the project to show that the project did not result in any PSD significant emissions increases.

#### **SECTION 2. ADMINISTRATIVE REQUIREMENTS**

- 1. <u>Permitting Authority</u>: The permitting authority for this project is the Bureau of Air Regulation, Division of Air Resource Management, Florida Department of Environmental Protection (Department). The Bureau of Air Regulation's mailing address is 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400.
- Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to: Air Quality Branch, Environmental Quality Division, Environmental and Compliance Department, City of Jacksonville, 407 North Laura Street, 3rd Floor, Jacksonville, Florida 32202 and Phone 904/255-7100.
- 3. <u>Appendices</u>: The following Appendices are attached as part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); and Appendix C (Common Conditions).
- 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. <u>Modifications</u>: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be 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. Source Obligation:

- a. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.
- b. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

[Rule 62-212.400(12), F.A.C.]

8. Application for Title V Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V air operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220 and Chapter 62-213, F.A.C.]

#### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

#### A. FOSSIL FUEL-FIRED STEAM GENERATOR (EU 003)

This section of the permit addresses the following emissions unit.

| ID No. | Emission Unit Description  |
|--------|--|
| 003    | NGS Unit 3 is a fossil fuel-fired steam generator with a nominal nameplate rating of 563.7 MW. |

Northside Generating Station Unit 3 began commercial operation in 1977. It is a fossil fuel-fired steam generator with a nominal nameplate rating of 563.7 megawatts (electric). The unit fires residual fuel oil, natural gas, liquefied petroleum gas (LPG), on-specification used oil, landfill gas and blends of fuel oil/natural gas/landfill gas. The maximum heat input rates are: 5033 million British thermal units (MMBtu) per hour when firing fuel oil; 5260 MMBtu per hour when firing natural gas or natural gas/landfill gas; or 5033 - 5260 MMBtu per hour when firing blends fuel oil/natural gas/landfill gas. LPG is used as the igniter fuel when natural gas is not available. Fuel additives (e.g., magnesium oxide, hydroxide or sulfonate or calcium nitrate origin) are used to enhance combustion and/or control acidity. Pollutant emissions from this emissions unit are uncontrolled. The combustion gases exhaust through a stack that is 300 feet tall. Sulfur dioxide (SO<sub>2</sub>) and nitrogen oxides (NO<sub>X</sub>) are monitored with continuous emissions monitoring systems (CEMS).

{Permitting Notes: This emissions unit is regulated under: Phase II of the Acid Rain Program; Rule 62-296.405(1), F.A.C., Fossil Fuel Steam Generators with More than 250 million Btu per Hour Heat Input; Rule 62-296.702, F.A.C., Reasonably Available Control Technology (RACT) Particulate Matter, Fossil Fuel Steam Generators; Permit No. AC16-85951; Permit No. 0310045-012-AC; and Rule 62-296.470, F.A.C., Clean Air Interstate Rule (CAIR).}

#### PROPOSED WORK

- 1. <u>Unit 3</u>: The permittee is authorized to conduct the following work on Unit 3 including repair, replacement and maintenance various equipment and components including (but not limited to) the following:
  - Electric generator rotor and assembly;
  - Handcuff replacement on the primary superheater elements;
  - Condenser structural assessment and repairs;
  - Fiberglass circulating piping assessment and repairs;
  - Feed water and heater drains piping flow corrosion inspection and repairs;
  - Fuel oil piping condition assessment and repairs;
  - Boiler soot-blowing system piping replacement;
  - No. 4 feed water heater replacement;
  - Furnace left and right water-wall replacement;
  - Boiler waterside chemical cleaning;
  - Replacement of Distributed Control System (DCS) and field devices;
  - 480 V motor control center (MCC) refurbishment;
  - Boiler duct work repair and replacement;
  - Rebuild water rack;
  - East air heater to wind-box expansion joint replacement;
  - Induced draft fans A and B rotor replacements;

#### SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

#### A. FOSSIL FUEL-FIRED STEAM GENERATOR (EU 003)

- Upgrade drum level transmitters;
- Closed cooling strainer cabinet replacement;
- Feed water heater and boiler feed water pump valve inspection and repair;
- Force draft fan motor replacement;
- Main steam line and cold reheat line elevation sag correction;
- Boiler feed pump turbine blade replacement; and
- Other changes as appropriate to ensure safe, reliable operations of the unit will be required.

[Application No. 0310045-026-AC]

#### PERFORMANCE RESTRICTIONS

2. <u>Capacities and Fuels</u>: The proposed work shall not result in any increase in the boiler heat input rate, fuel consumption rates and steam generation rates. [Rule 62-4.070(3), F.A.C. and Application No. 0310045-026-AC]

#### **TESTING REQUIREMENTS**

- 3. Actual Emissions Reporting: This permit is based on an analysis that compared baseline actual emissions with projected actual emissions and the project avoided the requirements of subsection 62-212.400(4) through (12), F.A.C. for several pollutants. Therefore, pursuant to Rule 62-212.300(1)(e), F.A.C., the permittee is subject to the following monitoring, reporting and recordkeeping provisions.
  - a. The permittee shall monitor the emissions of any PSD pollutant that the Department identifies could increase as a result of the construction or modification and that is emitted by any emissions unit that could be affected; and, using the most reliable information available, calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change. Emissions shall be computed in accordance with the provisions in Rule 62-210.370, F.A.C., which are provided in Appendix C of this permit.
  - b. The permittee shall report to the Department within 60 days after the end of each calendar year during the 5-year period setting out the unit's annual emissions during the calendar year that preceded submission of the report. The report shall contain the following:
    - (1). The name, address and telephone number of the owner or operator of the major stationary source;
    - (2). The annual emissions as calculated pursuant to the provisions of 62-210.370, F.A.C., which are provided in Appendix C of this permit;
    - (3). If the emissions differ from the preconstruction projection, an explanation as to why there is a difference; and
    - (4). Any other information that the owner or operator wishes to include in the report.
  - c. The information required to be documented and maintained pursuant to subparagraphs 62-212.300(1)(e)1 and 2, F.A.C., shall be submitted to the Department, which shall make it available for review to the general public.
  - d. For this project, the permittee estimated the following baseline actual emissions: 243 tons/year of carbon monoxide (CO); 1,916 tons/year of NO<sub>x</sub>; 6,791 tons/year of SO<sub>2</sub>; 232 tons/year of particulate matter (PM), 232 tons/year particulate matter of 10 microns or less (PM<sub>10</sub>); and 29 tons/year of volatile organic compounds (VOC).
  - e. The permittee shall compute and report annual emissions in accordance with Rule 62-210.370(2), F.A.C. as provided by Appendix C of this permit. For this project, the permittee shall use the following methods

#### **SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS**

#### A. FOSSIL FUEL-FIRED STEAM GENERATOR (EU 003)

in reporting the actual annual emissions for Unit 3:

- (1). The permittee shall use data collected from the CEMS to determine and report the actual annual emissions of SO<sub>2</sub> and NO<sub>x</sub>.
- (2). The permittee shall use the data collected from the required stack tests to determine and report the actual annual emissions of PM/PM<sub>10</sub>. The permittee shall follow the stack test methods, test procedures and test frequencies specified in the current Title V air operation permit.
- (3). Unless otherwise approved by the Department, the permittee shall use the same emissions factors for reporting the actual annual emissions of CO and VOC as used in the application to establish baseline emissions.
- (4). As defined in Rule 62-210.370(2), F.A.C., the permittee shall use a more accurate methodology if it becomes available.

[Application No. 0310045-026-AC; and Rules 62-212.300(1)(e) and 62-210.370, F.A.C.]

Section [1] NGS - Boiler No. 3

#### III. EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit Application** - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for 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.

DEP Form No. 62-210.900(1) Effective: 03/11/2010

Section [1] NGS - Boiler No. 3

#### A. GENERAL EMISSIONS UNIT INFORMATION

## Title V Air Operation Permit Emissions Unit Classification

| 1.  | Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.) |  |                          |  |
|-----|---|--|--------------------------|--|
|     | ☐ The emissions unit addressed in this Emissions Unit Information Section is a regulated  |  |                          |  |
| :   | emissions unit.  The emissions unregulated en   | unit addressed in this E   | missions Unit Informa    | tion Section is an                                       |
| En  | <u>nissions Unit Desc</u> i   | ription and Status   |                          |  |
| 1.  | Type of Emissions   | Unit Addressed in this   | Section: (Check one)     |  |
|     | single process  | s Unit Information Sect<br>or production unit, or a<br>which has at least one of | ctivity, which produces  | s one or more air  |
|     | of process or p   |  | vities which has at leas | ele emissions unit, a group st one definable emission s. |
|     |   |  | •                        | le emissions unit, one or e fugitive emissions only.     |
| 2.  |   | issions Unit Addressed<br>sil fuel-fired steam gene                              |                          | ameplate rating of                                       |
| 3.  | Emissions Unit Ide  | entification Number: 00  | )3                       |  |
| 4   | Emissions Unit Status Code:   | 5. Commence<br>Construction  | 6. Initial Startup Date: | 7. Emissions Unit Major Group                            |
|     | Status Code:  | Date:  | Date:                    | SIC Code:  |
|     | Α   | Duto.  | 06/28/1977               | 49   |
| 8.  | Federal Program A   | applicability: (Check al   | l that apply)            |  |
|     | Acid Rain Unit  | t  |                          |  |
|     | □ CAIR Unit   |  |                          |  |
| 9.  | Package Unit:<br>Manufacturer:  |  | Model Number:            |  |
| 10. | Generator Namepl  | ate Rating: 563.7 MW   |                          |  |
| 11. | Emissions Unit Co   | mment:   |                          |  |
|     |   |  |                          |  |

Section [1] NGS - Boiler No. 3

| 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:  |
| Envisoine Unit Control Famina ant Matheda Control  |
| Emissions Unit Control Equipment/Method: Control of  |
| 1. Control Equipment/Method Description:   |
|  |
|  |
|  |
| 1. Control Equipment/Method Description:   |
| Control Equipment/Method Description:     Control Device or Method Code:   |
| Control Equipment/Method Description:      Control Device or Method Code:      Emissions Unit Control Equipment/Method: Control of |
| Control Equipment/Method Description:      Control Device or Method Code:      Emissions Unit Control Equipment/Method: Control of |

Section [1] NGS - Boiler No. 3

## **B. EMISSIONS UNIT CAPACITY INFORMATION**

(Optional for unregulated emissions units.)

## **Emissions Unit Operating Capacity and Schedule**

| 1. |  |                       |                         |  |
|----|--|-----------------------|-------------------------|--|
|    | Maximum Process or Throughpu   | ut Rate:              |                         |  |
| 2. | Maximum Production Rate:   |                       |                         |  |
| 3. | Maximum Heat Input Rate: 5,26  | 60 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         | <b>8,760</b> hours/year |  |
|    | The nominal maximum heat input rates are: 5,260 MMBtu/hr when firing natural gas; 5,260 MMBtu/hr when firing landfill gas; 5,033 MMBtu/hr when firing fuel oil; and 5,033-5,260 MMBtu/hr when firing blends of fuel oil/natural gas/landfill gas |                       |                         |  |
|    | 5,260 MMBtu/hr when firing lands 5,033 MMBtu/hr when firing fuel of  | fill gas;<br>oil; and | gas/landfill gas        |  |

DEP Form No. 62-210.900(1) Effective: 03/11/2010

Section [1] NGS - Boiler No. 3

## C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

## **Emission Point Description and Type**

| 1.  | Identification of Point on Flow Diagram: <b>EU003</b>   | Plot Plan or                     | 2. Emission Point       | Гуре Code:                  |
|-----|---|----------------------------------|-------------------------|-----------------------------|
| 3.  | <ol> <li>Descriptions of Emission Points Comprising this Emissions Un<br/>The combustion gases exhaust through a 300-ft stack.</li> </ol> |                                  |                         | for VE Tracking:            |
|     |   |                                  |                         |                             |
| 4.  | ID Numbers or Description   |                                  |                         | n Point in Common:          |
| 5.  | Discharge Type Code: <b>V</b>   | 6. Stack Height 300 feet         | :                       | 7. Exit Diameter: 15.5 feet |
| 8.  | Exit Temperature: 305.6°F   | 9. Actual Volum<br>1,496,843 acf | netric Flow Rate:       | 10. Water Vapor: %          |
| 11. | Maximum Dry Standard F<br>dscfm   | low Rate:                        | 12. Nonstack Emiss feet | ion Point Height:           |
| 13. | Emission Point UTM Coo<br>Zone: East (km):  | rdinates                         | Latitude (DD/M          | •                           |
|     | North (km)  |                                  | Longitude (DD/MM/SS)    |                             |
| 15. | Emission Point Comment  |                                  |                         | ·                           |
|     |   |                                  |                         |                             |
|     |   |                                  |                         |                             |
|     | ·   |                                  |                         |                             |
|     |   |                                  |                         |                             |

DEP Form No. 62-210.900(1) Effective: 03/11/2010

Section [1] NGS - Boiler No. 3

## D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 4

| 1.        | Segment Description (Process/Fuel Type):  External Combustion Boilers; Electric Generation; Residual Oil; Grade 6 Oil: Normal Firing |                           |                             |                                       |  |
|-----------|--|---------------------------|-----------------------------|---------------------------------------|--|
|           |  |                           |                             |                                       |  |
| 2.        | Source Classification Cod<br>1-01-004-01   | le (SCC):                 | 3. SCC Unit.<br>1,000 Galle | s:<br>ons burned                      |  |
| 4.        | Maximum Hourly Rate: 33.55   | 5. Maximum <b>293,926</b> | Annual Rate:                | 6. Estimated Annual Activity Factor:  |  |
| 7.        | Maximum % Sulfur: 1.8  | 8. Maximum                | % Ash:                      | 9. Million Btu per SCC Unit: 150      |  |
| 10        | . Segment Comment:<br>Maximum rates based on t   | the maximum hea           | at input rate of 5          | ,033 MMBtu/hr.                        |  |
|           |  |                           |                             |                                       |  |
| <u>Se</u> | gment Description and Ra   | ate: Segment 2 o          | of <u>4</u>                 |                                       |  |
| 1.        | Segment Description (Pro<br>External Combustion Boile<br>except Tangential   |                           |                             | Gas; Boilers >100 MMBtu/hr            |  |
|           |  |                           |                             |                                       |  |
|           | •  |                           |                             | · · · · · · · · · · · · · · · · · · · |  |
| 2.        | Source Classification Cod<br>1-01-006-01   | e (SCC):                  | 3. SCC Units Million Cu     | s:<br>bic Feet Burned                 |  |
| 4.        | Maximum Hourly Rate: 5.01  | 5. Maximum <b>43,883</b>  | Annual Rate:                | 6. Estimated Annual Activity Factor:  |  |
| 7.        | Maximum % Sulfur:  | 8. Maximum                | % Ash:                      | 9. Million Btu per SCC Unit: 1,050    |  |
| 10        | Segment Comment:  Maximum rates based on t   | he maximum hea            | at input rate of 5          | ,260 MMBtu/hr.                        |  |
|           |  |                           |                             |                                       |  |

Section [1] NGS - Boiler No. 3

## D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment 3 of 4

| 1.  | Segment Description (Process/Fuel Type): External Combustion Boilers; Electric Generation; Landfill Gas |                    |                          |                                      |
|-----|---|--------------------|--------------------------|--------------------------------------|
| 2.  | Source Classification Cod<br>1-01-006-01  | e (SCC):           | 3. SCC Units             | S:<br>bic Feet Burned                |
| 4.  | Maximum Hourly Rate: 13.15  | 5. Maximum 115,194 | Annual Rate:             | 6. Estimated Annual Activity Factor: |
| 7.  | Maximum % Sulfur:   | 8. Maximum         | % Ash:                   | 9. Million Btu per SCC Unit: 400     |
| 10. | Segment Comment:  Maximum rates based on t  The landfill gas heating val                                |                    |                          |                                      |
| Se  | gment Description and Ra  | ite: Segment 4 c   | of <u>4</u>              | · .                                  |
| 1.  |   |                    |                          |                                      |
| 2.  | Source Classification Code 1-01-013-02  | e (SCC):           | 3. SCC Units 1,000 Gallo |                                      |
| 4.  | Maximum Hourly Rate:  | 5. Maximum . 1,000 | Annual Rate:             | 6. Estimated Annual Activity Factor: |
| 7.  | Maximum % Sulfur:   | 8. Maximum         | % Ash:                   | 9. Million Btu per SCC Unit:         |
| 10. | Segment Comment:<br>Limited to 1,000,000 gallon   | s per calendar y   | ear per permit No        | o. 0310045-016-AV.                   |

Section [1] NGS - Boiler No. 3

#### E. EMISSIONS UNIT POLLUTANTS

## List of Pollutants Emitted by Emissions Unit

| 1. Pollutant Emitted         | 2. Primary Control | 3. Secondary Control | 4. Pollutant    |
|------------------------------|--------------------|----------------------|-----------------|
|                              | Device Code        | Device Code          | Regulatory Code |
| NOx                          |                    |                      | EL              |
| СО                           |                    |                      | NS              |
| SO2                          |                    |                      | EL              |
| VOC                          |                    |                      | NS              |
| PM                           |                    |                      | EL              |
| PM10                         |                    |                      | NS              |
| РВ                           |                    |                      | NS              |
| Antimony Compounds<br>(H014) |                    |                      | NS              |
| Cobalt Compounds<br>(H047)   |                    |                      | NS              |
| Formaldehyde (H095)          |                    |                      | NS              |
| Hexane (H104)                |                    |                      | NS              |
| Nickel Compounds (H133)      |                    |                      | NS              |
| Phosphorus (H148)            |                    |                      | NS              |
| Toluene (H169)               |                    |                      | NS              |
| HAPS                         |                    |                      | NS              |
|                              |                    |                      |                 |
|                              |                    |                      |                 |
|                              |                    |                      |                 |
|                              |                    |                      |                 |

POLLUTANT DETAIL INFORMATION
Page [1] of [3]
Nitrogen Oxides

## 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

| Pollutant Emitted:     NOx   | 2. Total Perc  | ent Efficie  | ency of Control:          |  |
|--|----------------|--------------|---------------------------|--|
| 3. Potential Emissions: 1,578 lb/hour 3,600  | tons/year      | 4. Synth ⊠ Y | netically Limited?<br>es  |  |
| 5. Range of Estimated Fugitive Emissions (as to tons/year  | s applicable): |              |                           |  |
| 6. Emission Factor: 0.3 lb/MMBtu   | •              |              | 7. Emissions Method Code: |  |
| Reference: Permit No. 0310045-020-AV   |                |              | 0                         |  |
| 8.a. Baseline Actual Emissions (if required):  | 8.b. Baseline  | 24-month     | Period:                   |  |
| tons/year  | From:          | T            | 0:                        |  |
| 9.a. Projected Actual Emissions (if required):   | 9.b. Projected | Monitori     | ng Period:                |  |
| tons/year  | ☐ 5 year       | rs 🔲 10      | ) years                   |  |
| 10. Calculation of Emissions:  Hourly NOx emissions rate: 0.3 lb/MMBtu x 5   |                | = 1,578 lb/  | hr.                       |  |
| 11. Potential, Fugitive, and Actual Emissions Comment: NOx emissions from CFB Boilers Nos. 1 and 2 and Boiler No. 3 combined are limited to 3,600 TPY (rolling average). |                |              |                           |  |

# POLLUTANT DETAIL INFORMATION Page [1] of [3] Nitrogen Oxides

## 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.        | Basis for Allowable Emissions Code: RULE   | 2.         | Future Effective Date of Allowable Emissions:            |  |  |
|-----------|--|------------|--|--|--|
| 3.        | Allowable Emissions and Units: 0.30 lb/MMBtu   | 4.         | Equivalent Allowable Emissions:  1,578 lb/hour tons/year |  |  |
| 5.        | Method of Compliance:<br>CEMS for NO <sub>x</sub>  |            |  |  |  |
| 6.        | 6. Allowable Emissions Comment (Description of Operating Method):  Based on Permit No. 0310045-020-AV. |            |  |  |  |
| <u>Al</u> | lowable Emissions Allowable Emissions 2 o  | f <u>2</u> |  |  |  |
| 1.        | Basis for Allowable Emissions Code: OTHER  | 2.         | Future Effective Date of Allowable Emissions:            |  |  |
| 3.        | Allowable Emissions and Units:   | 4.         | Equivalent Allowable Emissions: lb/hour 3,600 tons/year  |  |  |
| 5.        | Method of Compliance:<br>CEMS for NO <sub>x</sub>  | •          |  |  |  |
| 6.        | Allowable Emissions Comment (Description Based on Permit No. 0310045-020-AV for NGS                    |            |  |  |  |
| <u>Al</u> | lowable Emissions Allowable Emissions  | <u> </u>   | f  |  |  |
| 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):                                       |  |  |

# POLLUTANT DETAIL INFORMATION Page [2] of [3] Sulfur Dioxide

## 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 Perc  | ent Efficie  | ency of Control:          |
|--|----------------|--------------|---------------------------|
| 3. Potential Emissions: 10,415 lb/hour 12,284  | tons/year      | 4. Synth ⊠ Y | netically Limited?<br>es  |
| 5. Range of Estimated Fugitive Emissions (as to tons/year  | s applicable): |              |                           |
| 6. Emission Factor: 1.98 lb/MMBtu  Reference: Permit No. 0310045-020-AV  |                |              | 7. Emissions Method Code: |
|  |                |              |                           |
| 8.a. Baseline Actual Emissions (if required):  | 8.b. Baseline  |              |                           |
| tons/year  | From:          | T            | 0:                        |
| 9.a. Projected Actual Emissions (if required):   | 9.b. Projected | Monitori     | ng Period:                |
| tons/year  |                | rs 🗌 10      | ) years                   |
| 10. Calculation of Emissions:  Hourly SO₂ emissions rate: 1.98 lb/MMBtu x €  |                | = 10,415 II  | b/hr.                     |
| 11. Potential, Fugitive, and Actual Emissions Co SO <sub>2</sub> emissions from CFB Boilers Nos. 1 and 2 12,284 TPY (rolling average). |                | . 3 combin   | ed are limited to         |

# POLLUTANT DETAIL INFORMATION Page [2] of [3] Sulfur Dioxide

## 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 <b>1</b> of | of <u>2</u> |
|---------------------|---------------------------------|-------------|
|---------------------|---------------------------------|-------------|

| 1.        | Basis for Allowable Emissions Code: RULE  | 2. Future Effective Date of Allowable Emissions:             |
|-----------|---|--|
| 3.        | Allowable Emissions and Units:  1.98 lb/MMBtu                                       | 4. Equivalent Allowable Emissions:  10,415 lb/hour tons/year |
| 5.        | Method of Compliance:<br>CEMS for SO <sub>2</sub>                                   |  |
| 6.        | Allowable Emissions Comment (Description Based on Permit No. 0310045-020-AV.        | n of Operating Method):                                      |
| <u>Al</u> | lowable Emissions Allowable Emissions 2 o   | f <u>2</u>   |
| 1.        | Basis for Allowable Emissions Code: OTHER   | 2. Future Effective Date of Allowable Emissions:             |
| 3.        | Allowable Emissions and Units:  | 4. Equivalent Allowable Emissions:  lb/hour 12,284 tons/year |
| 5.        | Method of Compliance:<br>CEMS for SO <sub>2</sub>                                   |  |
| 6.        | Allowable Emissions Comment (Description Based on Permit No. 0310045-020-AV for NGS |  |
| Al        | lowable 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):  |

POLLUTANT DETAIL INFORMATION
Page [3] of [3]
Particulate Matter

## 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   | 2. Total Perc  | ent Efficie  | ency of Control:            |  |
|--|----------------|--------------|-----------------------------|--|
| 3. Potential Emissions: 526 lb/hour 88   | I tons/year    | 4. Synth ⊠ Y | netically Limited?<br>es    |  |
| 5. Range of Estimated Fugitive Emissions (as to tons/year  |                |              |                             |  |
| 6. Emission Factor: 0.3 lb/MMBtu/ 0.1 lb/MMBt Reference: Permit No. 0310045-020-AV   | u              |              | 7. Emissions Method Code: 0 |  |
| 8.a. Baseline Actual Emissions (if required):  | 8.b. Baseline  | 24-month     | Period:                     |  |
| tons/year  | From:          |              | 0:                          |  |
| 9.a. Projected Actual Emissions (if required):   | 9.b. Projected |              |                             |  |
| tons/year  | ☐ 5 yea        |              | ) years                     |  |
| 10. Calculation of Emissions:  Hourly PM emissions rate: 0.3 lb/MMBtu x 5,260 MMBtu/hr = 1,578 lb/hr  Hourly PM emissions rate: 0.1 lb/MMBtu x 5,260 MMBtu/hr = 526 lb/hr  11. Potential, Fugitive, and Actual Emissions Comment:  PM emissions from CFB Boilers Nos. 1 and 2 and Boiler No. 3 combined are limited to |                |              |                             |  |
| 881 TPY (rolling average).   |                |              |                             |  |

# POLLUTANT DETAIL INFORMATION Page [3] of [3] Particulate Matter

## 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 Al | lowable Emissions 1 | l ot : | 3 |
|------------------------|---------------------|--------|---|
|------------------------|---------------------|--------|---|

| 1. | Basis for Allowable Emissions Code: RULE                                     | 2.   | Future Effective Date of Allo Emissions:  | wable             |
|----|--|------|---|-------------------|
| 3. | Allowable Emissions and Units:  0.1 lb/MMBtu                                 | 4.   | Equivalent Allowable Emission 526 lb/hour | ons:<br>tons/year |
| 5. | Method of Compliance:<br>EPA Methods 17, 5, 5B, or 5F                        | ı    |   | -                 |
| 6. | Allowable Emissions Comment (Description Based on Permit No. 0310045-020-AV. | of ( | Operating Method):                        |                   |

## Allowable Emissions 2 of 3

| 1. | Basis for Allowable Emissions Code: RULE                                     | 2.       | Future Effective Date of Allowable Emissions:            |
|----|--|----------|--|
| 3. | Allowable Emissions and Units: 0.3 lb/MMBtu                                  | 4.       | Equivalent Allowable Emissions:  1,578 lb/hour tons/year |
| 5. | Method of Compliance:<br>EPA Methods 17, 5, 5B, or 5F                        | <u> </u> |  |
| 6. | Allowable Emissions Comment (Description Based on Permit No. 0310045-020-AV. | of (     | Operating Method):                                       |

## Allowable Emissions Allowable Emissions 3 of 3

| 1. | Basis for Allowable Emissions Code: RULE  | 2. | Future Effective Date of Allowable Emissions:         |  |
|----|---|----|---|--|
| 3. | Allowable Emissions and Units:  | 4. | Equivalent Allowable Emissions: lb/hour 881 tons/year |  |
| 5. | Method of Compliance:<br>EPA Methods 17, 5, 5B, or 5F                               |    |   |  |
| 6. | Allowable Emissions Comment (Description Based on Permit No. 0310045-020-AV for NGS |    |   |  |

Section [1] NGS - Boiler No. 3

#### 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: <b>VE40</b>   | 2. Basis for Allowable Opacity  ⊠ Rule □ Otl |               |  |  |
|-----|--|--|---------------|--|--|
| 3.  | Allowable Opacity: Normal Conditions:  40 % Ex Maximum Period of Excess Opacity Allower      | cceptional Conditions:                       | %<br>min/hour |  |  |
| 4.  | Method of Compliance: DEP Method 9   |  |               |  |  |
| 5.  | Visible Emissions Comment: Based on Per Rule 62-296.405(1)(a) and 62-296.702(2)(b) F.        |  |               |  |  |
| Vis | Visible Emissions Limitation: Visible Emissions Limitation 2 of 2                            |  |               |  |  |
| 1.  | Visible Emissions Subtype: <b>VE60</b>   | 2. Basis for Allowable Opacity  ⊠ Rule □ Otl |               |  |  |
| 3.  | Allowable Opacity: Normal Conditions: 60 % Ex Maximum Period of Excess Opacity Allower       | ceptional Conditions:                        | %<br>min/hour |  |  |
| 4.  | Method of Compliance: DEP Method 9   |  |               |  |  |
| 5.  | Visible Emissions Comment: Based on Per Rule 62-210.700(2)(a) F.A.C.                         | mit No. 0310045-020-AV and                   |               |  |  |
|     | Visible emissions limit applies for 3-hours in allowed for boiler cleaning (soot blowing) an |  | ssions        |  |  |

Section [1] NGS - Boiler No. 3

#### 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 3

| 1. | Parameter Code: EM                                      | 2.          | Pollutant(s): NOx                                 |  |  |
|----|---|-------------|---|--|--|
| 3. | CMS Requirement:  | $\boxtimes$ | Rule  |  |  |
| 4. | Monitor Information Manufacturer: TECO                  |             | *   |  |  |
|    | Model Number: 42C                                       |             | Serial Number: <b>0501710240</b>                  |  |  |
| 5. | Installation Date:<br>February 9, 2010                  | 6.          | Performance Specification Test Date: Jan-Feb 2009 |  |  |
| 7. | Continuous Monitor Comment:                             |             |   |  |  |
| Co | Continuous Monitoring System: Continuous Monitor 2 of 3 |             |   |  |  |
| 1. | Parameter Code:<br>EM                                   | 2.          | Pollutant(s):<br>SO2                              |  |  |
| 3. | CMS Requirement:  | $\boxtimes$ | Rule  |  |  |
| 4. | Monitor Information Manufacturer: TECO                  |             |   |  |  |
|    | Model Number: 43C                                       |             | Serial Number: <b>0462408776</b>                  |  |  |
| 5. | Installation Date:<br>October 1, 2007                   | 6.          | Performance Specification Test Date: Sep-Oct 2007 |  |  |
| 7. | Continuous Monitor Comment:                             |             |   |  |  |

Section [1] NGS - Boiler No. 3

## H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Continuous Monitoring System: Continuous Monitor 3 of 3

| 1.        | Parameter Code:                                     | 2.          | Pollutant(s):                                       |  |  |
|-----------|---|-------------|---|--|--|
| 3.        | CMS Requirement:                                    | $\boxtimes$ | Rule  |  |  |
| 4.        | Monitor Information Manufacturer: CAI               |             |   |  |  |
|           | Model Number: ZRH01                                 |             | Serial Number:                                      |  |  |
| 5.        | Installation Date: March 20, 2005                   | 6.          | Performance Specification Test Date: April-May 2005 |  |  |
| 7.        | Continuous Monitor Comment:                         |             |   |  |  |
| <u>Co</u> | Continuous Monitoring System: Continuous Monitor of |             |   |  |  |
| 1.        | Parameter Code:                                     | 2.          | Pollutant(s):                                       |  |  |
| 3.        | CMS Requirement:                                    |             | Rule  |  |  |
| 4.        | Monitor Information Manufacturer:                   |             |   |  |  |
|           | Model Number:                                       |             | Serial Number:                                      |  |  |
| 5.        | Installation Date:                                  | 6.          | Performance Specification Test Date:                |  |  |
| 7.        | Continuous Monitor Comment:                         |             |   |  |  |

Section [1] NGS - Boiler No. 3

## I. EMISSIONS UNIT ADDITIONAL INFORMATION

## Additional Requirements for All Applications, Except as Otherwise Stated

|     | 1. | Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)  Attached, Document ID:   Previously Submitted, Date                         |  |
|-----|----|---|--|
|     | 2. | Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)  Attached, Document ID: Previously Submitted, Date                 |  |
|     | 3. | Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)  Attached, Document ID: Previously Submitted, Date      |  |
|     | 4. | Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)  Attached, Document ID:  Previously Submitted, Date |  |
|     |    | ☐ 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)  Attached, Document ID: Previously Submitted, Date                 |  |
|     | 6. | Compliance Demonstration Reports/Records:  Attached, Document ID:   |  |
|     |    | Test Date(s)/Pollutant(s) Tested:   |  |
|     |    | ☐ Previously Submitted, Date:   |  |
|     |    | Test Date(s)/Pollutant(s) Tested:   |  |
|     |    | ☐ To be Submitted, Date (if known):   |  |
|     |    | Test Date(s)/Pollutant(s) Tested:   |  |
|     |    | ☐ 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  |  |
| - 1 |    |   |  |

Section [1] NGS - Boiler No. 3

## I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

## Additional Requirements for Air Construction Permit Applications

| 1.        |   |   |  |
|-----------|---|---|--|
|           | F.A.C.; 40 CFR 63.43(d) and (e)):  Attached, Document ID:         | _ □ Not Applicable  |  |
| 2.        | Good Engineering Practice Stack Height                            |   |  |
|           | 212.500(4)(f), F.A.C.):   | Amarysis (reales 02 212.100(1)(a) and 02  |  |
|           | ☐ Attached, Document ID:  | _ ☐ Not Applicable  |  |
| 3.        | Description of Stack Sampling Facilities: only)                   | (Required for proposed new stack sampling facilities  |  |
|           | Attached, Document ID:  | ☐ Not Applicable  |  |
| Ad        | Iditional Requirements for Title V Air O                          | peration Permit Applications  |  |
| 1.        | Identification of Applicable Requirements  Attached, Document ID: |   |  |
| 2.        | Compliance Assurance Monitoring:  Attached, Document ID:          | Not Applicable  |  |
| 3.        | Alternative Methods of Operation:  Attached, Document ID:         | Not Applicable     ■     Out Applicable     ■     Out Applicable     Out Applica |  |
| 4.        | Alternative Modes of Operation (Emissio                           | ns Trading):  |  |
|           | Attached, Document ID:  | Not Applicable     ■  |  |
| <u>Ad</u> | ditional Requirements Comment                                     |   |  |
|           |   |   |  |
|           |   |   |  |
|           |   |   |  |
|           |   |   |  |
|           |   |   |  |
|           | •   |   |  |
|           |   |   |  |
|           |   |   |  |

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