

4014 NW 13th STREET
GAINESVILLE, FL 32609-1923
352/377-5822 ■ FAX/377-7158

KA308-09-04
March 5, 2009

Mrs. Cindy Zhang-Torres
FDEP Southwest District
13051 N Telecom Parkway
Temple Terrace, FL 33637-0926

Subject: CAIR Electric Generating Unit, Central Power and Lime, Inc.
Submittal of Air Construction Permit Application
Facility ID: 0530021

Dear Mrs. Zhang-Torres:

Enclosed are four copies of an application for installation of low-NO_x burners with overfire air at the 150-MW Central Power and Lime Power plant (ORIS code: 10333). The installation is due to the unit being subject to the Clean Air Interstate Rule (CAIR). If you have any questions concerning the application, please call me at (352) 377-5822 or mlee@kooglerassociates.com.

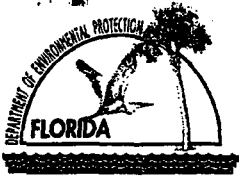
Sincerely,

Max Lee, Ph.D., P.E.
KOOGLER & ASSOCIATES

Enc.

Cc: Terry Woodard, Designated Rep., CPL

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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.

Identification of Facility

1. Facility Owner/Company Name: Central Power and Lime, Inc.	
2. Site Name: Power Plant	
3. Facility Identification Number: 0530021	
4. Facility Location... Street Address or Other Locator: 10311 Cement Plant Road City: Brooksville County: Hernando Zip Code: 34601	
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

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Application Contact

1. Application Contact Name: Max Lee	
2. Application Contact Mailing Address... Organization/Firm: Koogler and Associates, Inc. Street Address: 4014 NW 13th Street City: Gainesville State: Florida Zip Code: 32609	
3. Application Contact Telephone Numbers... Telephone: (352) 377-5822 ext.15 Fax: (352) 377-7158	
4. Application Contact E-mail Address: Mlee@kooglerassociates.com	

Application Processing Information (DEP Use)

1. Date of Receipt of Application: 3/10/09	3. PSD Number (if applicable):
2. Project Number(s): 0530021-019-AC	4. Siting Number (if applicable):

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.

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Application Comment

APPLICATION INFORMATION

This application requests minor modification to Permit No. 0530021-013-AV for the installation of low-NOx burners with overfire air on the Boiler (EU 018) in order to comply with new regulations.

The coal-fired 150-MW power plant, owned by Central Power and Lime, Inc. and operated by Delta Power Services of Florida LLC (DPS of Florida LLC), is subject to the Clean Air Interstate Rule (CAIR).

Only information on the project is submitted herein, per FDEP guidelines, as there are no other changes.

Scope of Application

APPLICATION INFORMATION

Owner/Authorized Representative Statement

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

1. Owner/Authorized Representative Name: Mr. Terry Woodard, Power Plant Manager
2. Owner/Authorized Representative Mailing Address... Organization/Firm: Central Power and Lime, Inc. Street Address: 10311 Cement Plant Road City: Brooksville State: Florida Zip Code: 34601
3. Owner/Authorized Representative Telephone Numbers... Telephone: (352) 799-7881 ext. Fax: (352) 799-3508
4. Owner/Authorized Representative E-mail Address: wwoodard@deltapowerservices.com
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

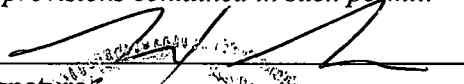
Application Responsible Official Certification

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:			
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable):			
<input type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C.			
<input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively.			
<input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.			
<input type="checkbox"/> The designated representative at an Acid Rain source, CAIR source, or Hg Budget source.			
3. Application Responsible Official Mailing Address...			
Organization/Firm:			
Street Address:			
City:		State:	Zip Code:
4. Application Responsible Official Telephone Numbers...			
Telephone:		ext.	Fax:
5. Application Responsible Official E-mail Address:			
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		_____ Date	

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: Max Lee, Ph.D. P.E. Registration Number: 58091
2. Professional Engineer Mailing Address... Organization/Firm: Koogler and Associates, Inc. Street Address: 4014 NW 13th Street City: Gainesville State: Florida Zip Code: 32609
3. Professional Engineer Telephone Numbers... Telephone: (352) 377-5822 ext.13 Fax: (352) 377-7158
4. Professional Engineer E-mail Address: MLee@kooglerassociates.com
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i> <i>(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</i> <i>(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.</i> <i>(3) 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> <i>(4) If the purpose of this application is to obtain an air construction permit (check here , 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> <i>(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 <input type="checkbox"/> , if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.</i> Signature  Date <u>3/5/08</u> (seal)

* Attach any exception to certification statement.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone 17 East (km) 360.0 North (km) 3162.5		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) 28/35/00 Longitude (DD/MM/SS) 82/25/53	
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 32	6. Facility SIC(s): 3241
7. Facility Comment :			

Facility Contact

1. Facility Contact Name: Mr. Larry Roberts, Operations Manager
2. Facility Contact Mailing Address... Organization/Firm: Central Power and Lime, Inc. Street Address: 10311 Cement Plant Road <div style="display: flex; justify-content: space-between; margin-top: 5px;"> City: Brooksville State: Florida Zip Code: 34601 </div>
3. Facility Contact Telephone Numbers: Telephone: (352) 799-7881 Fax: (352) 799-3508
4. Facility Contact E-mail Address: <u>LRoberts@deltapowerservices.com</u>

Facility Primary Responsible Official

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

1. Facility Primary Responsible Official Name:
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Street Address: <div style="display: flex; justify-content: space-between; margin-top: 5px;"> City: State: Zip Code: </div>
3. Facility Primary Responsible Official Telephone Numbers... Telephone: () - ext. Fax: () -
4. Facility Primary Responsible Official E-mail Address:

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Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a “major source” and a “synthetic minor source.”

1. <input type="checkbox"/> Small Business Stationary Source	<input type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source	
3. <input checked="" type="checkbox"/> Title V Source	
4. <input checked="" type="checkbox"/> Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. <input type="checkbox"/> Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. <input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)	
7. <input type="checkbox"/> Synthetic Minor Source of HAPs	
8. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. <input type="checkbox"/> One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. <input type="checkbox"/> Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment: The above classifications apply to various and separate emission units (e.g., the Cemex Inc. cement plant) at the facility complex. For the applicable classifications of the power plant (EU 018), see the emissions unit section III.	

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
PM	A	N
PM₁₀	A	N
SO₂	A	N
NO_x	A	N
CO	A	N
VOC	A	N
HAPS - Total	A	N
DIOX	B	N
H114 (Mercury)	B	N
SAM	B	N
FL	B	N

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: 4/14/2005 _____
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: 4/14/2005 _____
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: 4/14/2005 _____ (facility wide)

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: Attachment 1
3. Rule Applicability Analysis: <input type="checkbox"/> Attached, Document ID: N/A
4. List of Exempt Emissions Units: N/A <input type="checkbox"/> Attached, Document ID: _____ <input 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

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications N/A

1. List of Exempt Emissions Units:
 Attached, Document ID: _____ Not Applicable (no exempt units at facility)

Additional Requirements for Title V Air Operation Permit Applications N/A

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: _____
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: _____ Not Applicable

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C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

N/A

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: 4/30/08

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: 4/30/08

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

Acid Rain and CAIR forms at FDEP website under permit: 0530021-013-AV

EMISSIONS UNIT INFORMATION

Section [1] of [1]

EU018-Power Plant

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 [1]

EU018-Power Plant

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:
Power Plant Boiler with Dry Limestone Injection Scrubbing followed with a Baghouse System

3. Emissions Unit Identification Number: **018**

4. Emissions Unit Status Code: A	5. Commence Construction Date:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49
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8. Federal Program Applicability: (Check all that apply) **N/A**

Acid Rain Unit

CAIR Unit

Hg Budget Unit

9. Package Unit: **CCV DAZ Burner and OFA System Retrofit**
 Manufacturer: **Babcock Power Inc.** Model Number:

10. Generator Nameplate Rating: **150 MW**

11. Emissions Unit Comment: **This modification addresses the installation of a Low-NOx-burner with overfire air in order to comply with CAIR requirements.**

EMISSIONS UNIT INFORMATION

Section [1] of [1]

EU018-Power Plant

Emissions Unit Control Equipment/Method: Control 1 of 4

1. Control Equipment/Method Description:
Baghouse – High Temperature

2. Control Device or Method Code: **016**

Emissions Unit Control Equipment/Method: Control 2 of 4

1. Control Equipment/Method Description:
Dry Limestone Injection

2. Control Device or Method Code: **041**

NEW CONTROLS

Emissions Unit Control Equipment/Method: Control 3 of 4

1. Control Equipment/Method Description:
Overfire Air (OFA)

2. Control Device or Method Code: **204**

Emissions Unit Control Equipment/Method: Control 4 of 4

1. Control Equipment/Method Description:
Low NOx Burners

2. Control Device or Method Code: **205**

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EMISSIONS UNIT INFORMATION

Section [1] of [1]

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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: Power Plant		2. Emission Point Type Code: 018	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Main stack			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 320 feet	7. Exit Diameter: 16 feet	
8. Exit Temperature: 300°F	9. Actual Volumetric Flow Rate: 840,000 acfm	10. Water Vapor: 7.5%	
11. Maximum Dry Standard Flow Rate: Dscfm 540,000		12. Nonstack Emission Point Height: Feet	
13. Emission Point UTM Coordinates... Zone: 17 East (km): 360.1 North (km): 3162.01		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) 28/34/44 Longitude (DD/MM/SS) 82/26/41	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [1] of [1]

EU018-Power Plant

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): External Combustion Boilers: Industrial: Bituminous/Subbituminous Coal: Cogeneration (Bituminous Coal)		
2. Source Classification Code (SCC): 1-02-002-19	3. SCC Units: Tons of bituminous coal Burned	
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: 24
10. Segment Comment:		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): External Combustion Boilers: Industrial: Distillate Oil: Cogeneration		
2. Source Classification Code (SCC): 1-02-002-05	3. SCC Units: 1000 gallons distillate oil burned	
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: 138
10. Segment Comment: New #2 fuel oil, allowed for startup purposes..		

EMISSIONS UNIT INFORMATION

POLLUTANT DETAIL INFORMATION

Section [1] of [1]

EU 018-Power Plant

Nitrogen Oxides - NO_x

**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:	
3. Potential Emissions: 846 lb/hour 3705.5 tons/year		4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: 0.7 lb/mmbtu Reference: Permit 0530021-011-AV		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: Coal: 0.7 #/MMBtu, not to exceed 846 #/hr: boiler plant. Annual: 846 lb/hr x 8,760 hr/yr x 1 ton/2,000 lb = 3705.6 TPY			
11. Potential, Fugitive, and Actual Emissions Comment:			

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EMISSIONS UNIT INFORMATION**POLLUTANT DETAIL INFORMATION**

Section [1] of [1]

EU 018-Power Plant

Nitrogen Oxides - 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
Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.7 lb/mmbtu	4. Equivalent Allowable Emissions: 846 lb/hour 3705.5 tons/year
5. Method of Compliance: Annual Method 7 or 7E	
6. Allowable Emissions Comment (Description of Operating Method): While burning coal. Basis for allowable emission: PSD-FL-090, PSD-FL-090D & PA 82-17.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.16 lb/mmbtu	4. Equivalent Allowable Emissions: 296 lb/hour tons/year
5. Method of Compliance: Fuel oil only during startup	
6. Allowable Emissions Comment (Description of Operating Method): While burning fuel oil. Basis for allowable emission: PSD-FL-090, PSD-FL-090D & PA 82-17.	

EMISSIONS UNIT INFORMATION

Section [1] of [1]

EU018-Power Plant

G. VISIBLE EMISSIONS INFORMATION

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Power Plant ONLY Normal Conditions: Boiler only- 20% Exceptional Conditions: 27 % Maximum Period of Excess Opacity Allowed: 6 min/hour Power Plant and Cement ONLY Normal Conditions: Boiler only- 10% Exceptional Conditions: 17 % Maximum Period of Excess Opacity Allowed: 6 min/hour	
4. Method of Compliance: DEP Method 9 annually	
5. Visible Emissions Comment: Based on Permit No. 0530021-011-AV	

Visible Emissions Limitation: Visible Emissions Limitation ___ of ___

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

EMISSIONS UNIT INFORMATION

Section [1] of [1]

EU018-Power Plant

H. CONTINUOUS MONITOR INFORMATION

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

Continuous Monitoring System: Continuous Monitor 1 of 4

1. Parameter Code: EM	2. Pollutant(s): NO_x
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule Other
4. Monitor Information... Manufacturer: Thermoelecton Model Number: 42I Serial Number: 727725254	
5. Installation Date: 12/13/2007	6. Performance Specification Test Date: 12/18/2007
7. Continuous Monitor Comment: Required by CAIR, Permit No. 0530021-013-AV (proposed). CMS located in boiler exhaust duct, prior to cement plant duct.	

Continuous Monitoring System: Continuous Monitor 2 of 4

NA

1. Parameter Code: EM	2. Pollutant(s): CO₂
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule Other
4. Monitor Information... Manufacturer: Thermoelecton Model Number: 410i Serial Number: 733025819	
5. Installation Date: 12/13/2007	6. Performance Specification Test Date: 12/18/2007
7. Continuous Monitor Comment: Required by CAIR, Permit No. 0530021-013-AV (proposed). CMS located in boiler exhaust duct, prior to cement plant duct.	

EMISSIONS UNIT INFORMATION

Section [1] of [1]

EU018-Power Plant

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

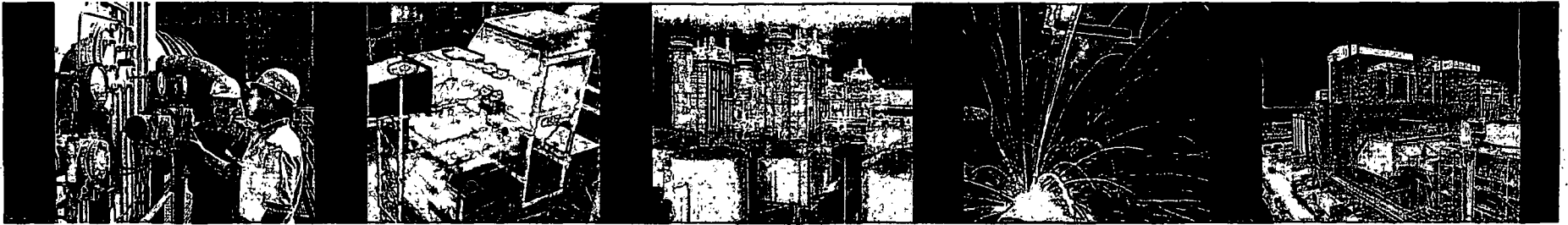
<p>1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought)</p> <p><input type="checkbox"/> Attached, Document ID _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>4/14/2005</u></p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID _____ <input checked="" type="checkbox"/> Previously Submitted, Date <u>4/14/2005</u></p>
<p>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)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment 1</u> <input type="checkbox"/> Previously Submitted, Date _____</p>
<p>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)</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p> <p><input checked="" type="checkbox"/> Not Applicable (construction application)</p>
<p>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)</p> <p>Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____</p> <p><input checked="" type="checkbox"/> Not Applicable</p>
<p>6. Compliance Demonstration Reports/Records:</p> <p><input type="checkbox"/> Attached, Document ID: _____</p> <p>Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> Previously Submitted, Date: _____</p> <p>Test Date(s)/Pollutant(s) Tested: _____</p> <p><input type="checkbox"/> To be Submitted, Date (if known): _____</p> <p>Test Date(s)/Pollutant(s) Tested: _____</p> <p><input checked="" type="checkbox"/> Not Applicable</p> <p>Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.</p>
<p>7. Other Information Required by Rule or Statute:</p> <p><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

Dept. of Environmental Protection
 Southwest District
 MAR 10 2009

ATTACHMENT 01

DESCRIPTION OF LOW NOX BURNER WITH OVERFIRE AIR

Babcock Power Inc.



One Source

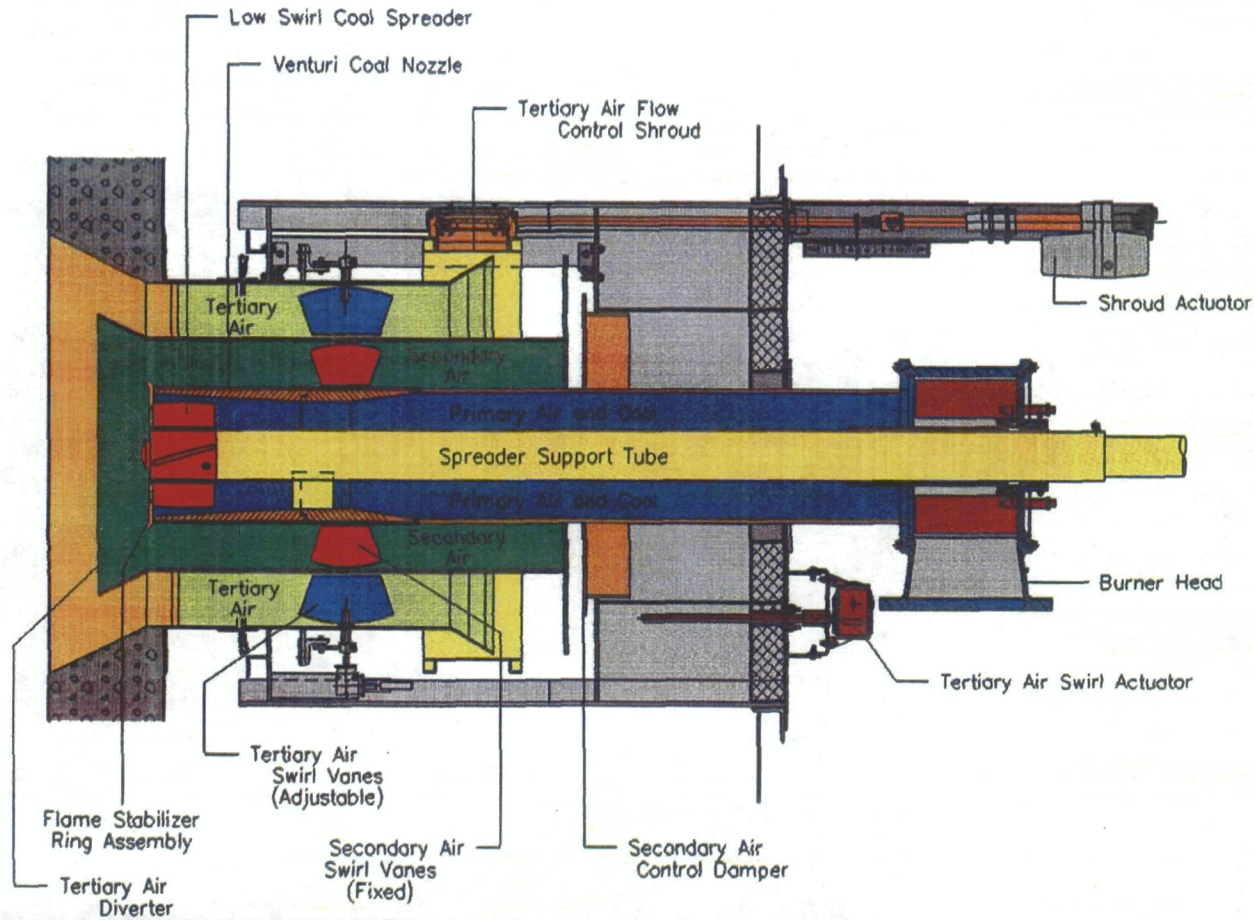
Many Solutions

One Purpose

**CCV® DAZ Burner and OFA System Retrofit
100411 - Central Power and Lime**



Standard Low NO_x CCV[®] DAZ Burner

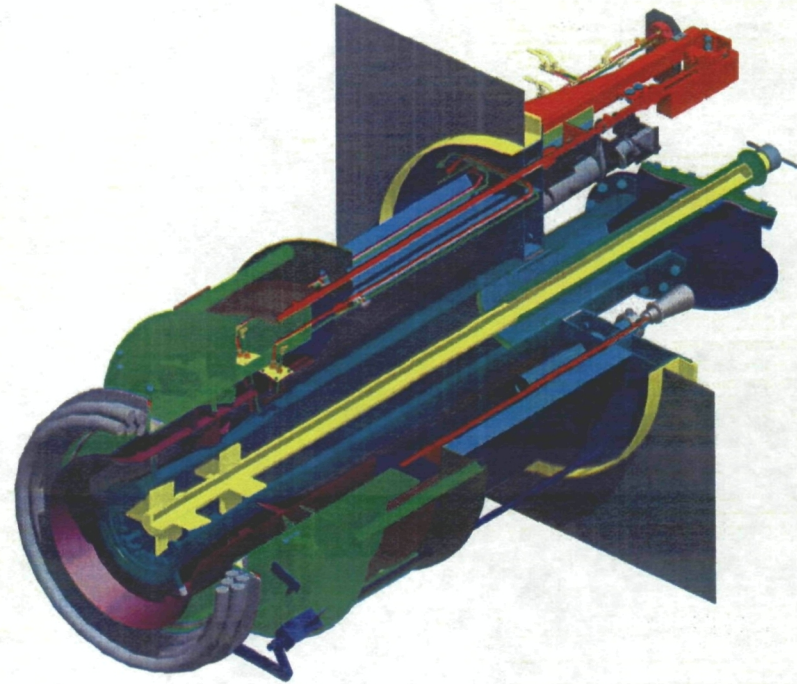


Riley Power Inc.



Low NO_x CCV[®] DAZ Burner - Features

- Independent Control of the Secondary and Tertiary Air Streams
- Continuous Modulating Airflow Control – Shroud
- Patented Low NO_x CCV[®] Coal Nozzle w/ adjustable coal spreader
- Adjustable Tertiary Air Swirl Vanes
- Fixed Secondary Air Swirl Vanes
- Airflow Measurement
- Wear Resistant Materials



Riley Power Inc.



Overfire Air Scope Overview

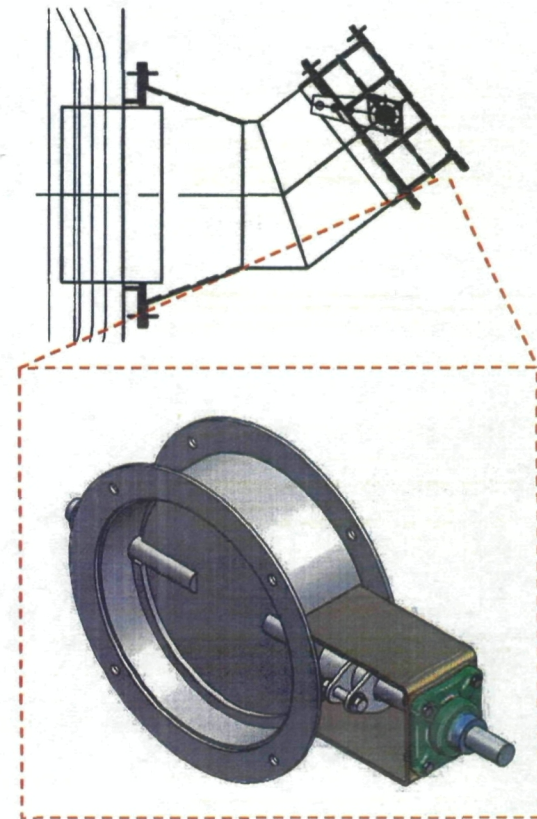
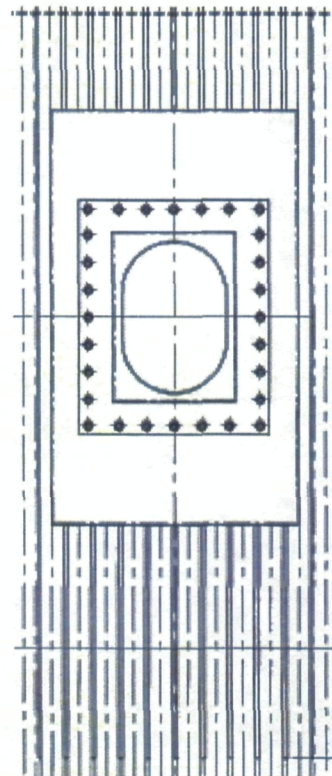
- **Overfire Air (OFA) System**
 - Eight (8) OFA ports arranged
 - Eight (8) waterwall membrane tube panel openings
 - Type 310 stainless steel sleeve
 - Eight (8), 16" diameter OFA duct sections
 - Eight (8) dampers
 - Eight (8) Beck Actuators
 - Eight (8) Air Monitor Volu Probes with duct mounted Magnehelic gauges
 - Two (2) NEMA 4 local junction boxes (one (1) per side)

Riley Power Inc.



Overfire Air Design Features

- Important design features from RPI study for EPRI
 - Ports are inline with burner columns at the wings.
 - Balanced and biased flow capability via dampers (Flextor)
 - Penetration (adequate pressure and velocity) & mixing
 - Oval OFA Ports
 - Flow measurement Air Monitor
- Major components
 - Tube panel inserts
 - Wall Mounting boots
 - Air Monitor Probes in each port
 - Beck Damper Drives



Riley Power Inc.

From: Origin ID: GIFA (352) 799-7881
Kimberly Brown
CENTRAL POWER & LIME, INC
10311 CEMENT PLANT ROAD

BROOKSVILLE, FL 34601



Ship Date: 09MAR09
ActWgt: 2.0 LB
CAD: 2785456/NET9011
Account#: S *****

Delivery Address Bar Code



Ref #
Invoice #
PO #
Dept #

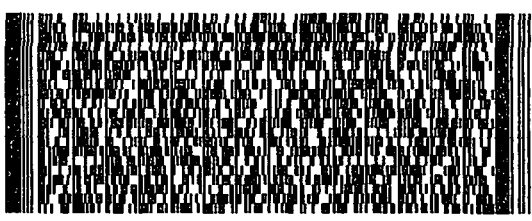
SHIP TO: (000) 000-0000 BILL SENDER

Mrs Cindy Zhang-Torres
FDEP Southwest District
13051 N Telecom Parkway

Temple Terrace, FL 33637

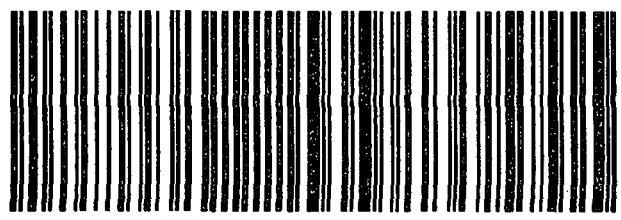
TRK# 7973 9763 6170
0201

TUE - 10MAR A1
FIRST OVERNIGHT



33637
FL-US
TPA

3K MCFA



Handwritten number 2

After printing this label:

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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Dept. of Environment & Natural Resources
Protection
MAR 10 2009
Southwest District