

**Friday, Barbara**

5/23/07

---

**From:** Harvey, Mary  
**Sent:** Wednesday, May 23, 2007 3:38 PM  
**To:** 'Gary.Willer@cogentrix.com'; 'Gary Willer, ICLP:.'; 'Nick Laryea, ICLP:.'; Graziani, Darrel; 'David A. Buff:.'; 'Katy Forney, EPA Region 4:.'; 'James Little, EPA Region 4:.'  
**Cc:** Cascio, Tom; Adams, Patty; Gibson, Victoria  
**Subject:** DEP File No. 0850102-009-AC - DRAFT  
**Attachments:** 0850102.009.AC.D\_pdf.zip

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site:  
<http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

6/26/2007

**Friday, Barbara**

---

**From:** Harvey, Mary  
**Sent:** Wednesday, May 23, 2007 4:33 PM  
**To:** Adams, Patty  
**Subject:** FW: FW: DEP File No. 0850102-009-AC - DRAFT

**Attachments:** Appendix C 2007 - DEP File No. 0850102-009-AC-DRAFT.PDF; Appendix GC 2007 - 0850102-009-AC-DRAFT.PDF; Draft AC Cover Page 2007 - 0850102-009-AC-DRAFT.PDF; Draft AC Section 1 2007 - 0850102-009-AC-DRAFT.PDF; Draft AC Section 2 2007 - 0850102-009-AC-DRAFT.PDF; Draft AC Section 3 2007 - 0850102-009-AC-DRAFT.PDF; Draft Technical Evaluation 2007 - 0850102-009-AC-DRAFT.PDF; Intent to Issue Permit 2007 - 0850102-009-AC-DRAFT.PDF; Letter 2007 - 0850102-009-AC-DRAFT.PDF; Public Notice 2007 - 0850102-009-AC-DRAFT.PDF; Signed Documents - DEP File No. 0850102-009-AC-DRAFT.pdf



Appendix C 2007 - DEP File No.... Appendix GC 2007 - 0850102-009-... Draft AC Cover Page 2007 - 085... Draft AC Section 1 2007 - 0850... Draft AC Section 2 2007 - 0850... Draft AC Section 3 2007 - 0850... Draft Technical Evaluation 200...



Intent to Issue Permit 2007 - ... 0850102-009-AC-D.. Public Notice 2007 - 0850102-0... Signed Documents - DEP File No...

-----Original Message-----

From: Forney.Kathleen@epamail.epa.gov [mailto:Forney.Kathleen@epamail.epa.gov]  
Sent: Wednesday, May 23, 2007 4:29 PM  
To: Harvey, Mary  
Subject: Re: FW: DEP File No. 0850102-009-AC - DRAFT

THanks... KT

-----  
Katy R. Forney  
Air Permits Section  
EPA - Region 4  
61 Forsyth St., SW  
Atlanta, GA 30024

Phone: 404-562-9130  
Fax: 404-562-9019

"Harvey, Mary"  
<Mary.Harvey@dep.state.fl.us>

05/23/2007 04:16 PM

To  
Kathleen Forney/R4/USEPA/US@EPA

cc

Subject  
FW: DEP File No. 0850102-009-AC - DRAFT

From: Harvey, Mary  
Sent: Wednesday, May 23, 2007 3:38 PM  
To: 'Gary.Willer@cogentrix.com'; 'Gary Willer, ICLP: '; 'Nick Laryea, ICLP: '; Graziani, Darrel; 'David A. Buff: '; 'Katy Forney, EPA Region 4: '; 'James Little, EPA Region 4: '  
Cc: Cascio, Tom; Adams, Patty; Gibson, Victoria  
Subject: DEP File No. 0850102-009-AC - DRAFT

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site:  
<http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,  
DEP, Bureau of Air Regulation

(See attached file: Appendix C 2007 - DEP File No. 0850102-009-AC-DRAFT.PDF)(See attached file: Appendix GC 2007 - 0850102-009-AC-DRAFT.PDF)(See attached file: Draft AC Cover Page 2007 - 0850102-009-AC-DRAFT.PDF)(See attached file: Draft AC Section 1 2007 - 0850102-009-AC-DRAFT.PDF)(See attached file: Draft AC Section 2 2007 - 0850102-009-AC-DRAFT.PDF)(See attached file: Draft AC Section 3 2007 - 0850102-009-AC-DRAFT.PDF)(See attached file: Draft Technical Evaluation 2007 - 0850102-009-AC-DRAFT.PDF)(See attached file: Intent to Issue Permit 2007 - 0850102-009-AC-DRAFT.PDF)(See attached file: Letter 2007 - 0850102-009-AC-DRAFT.PDF)(See attached file: Public Notice 2007 - 0850102-009-AC-DRAFT.PDF)(See attached file: Signed Documents - DEP File No. 0850102-009-AC-DRAFT.pdf)

## Friday, Barbara

---

**From:** Harvey, Mary  
**Sent:** Thursday, May 24, 2007 8:49 AM  
**To:** Adams, Patty  
**Subject:** FW: DEP File No. 0850102-009-AC - DRAFT

---

**From:** Laryea, Nicholas [<mailto:NicholasLaryea@Cogentrix.com>]  
**Sent:** Wednesday, May 23, 2007 5:06 PM  
**To:** Harvey, Mary  
**Subject:** Read: FW: DEP File No. 0850102-009-AC - DRAFT

Your message

To: [NicholasLaryea@Cogentrix.com](mailto:NicholasLaryea@Cogentrix.com)  
Subject:

was read on 5/23/2007 5:06 PM.

## Friday, Barbara

---

**From:** Harvey, Mary  
**Sent:** Wednesday, May 23, 2007 4:45 PM  
**To:** Adams, Patty  
**Subject:** FW: DEP File No. 0850102-009-AC - DRAFT

---

**From:** Graziani, Darrel  
**Sent:** Wednesday, May 23, 2007 4:41 PM  
**To:** Harvey, Mary  
**Subject:** Read: DEP File No. 0850102-009-AC - DRAFT

Your message

**To:** 'Gary.Willer@cogentrix.com'; 'Gary Willer, ICLP:.'; 'Nick Laryea, ICLP:.'; Graziani, Darrel; 'David A. Buff:.'; 'Katy Forney, EPA Region 4:.'; 'James Little, EPA Region 4:.'  
**Cc:** Cascio, Tom; Adams, Patty; Gibson, Victoria  
**Subject:** DEP File No. 0850102-009-AC - DRAFT  
**Sent:** 5/23/2007 3:38 PM

was read on 5/23/2007 4:41 PM.

## Friday, Barbara

---

**From:** Harvey, Mary  
**Sent:** Wednesday, May 23, 2007 4:11 PM  
**To:** Adams, Patty  
**Subject:** FW: FW: DEP File No. 0850102-009-AC - DRAFT

---

**From:** Willer, Gary [<mailto:GaryWiller@cogentrix.com>]  
**Sent:** Wednesday, May 23, 2007 4:11 PM  
**To:** Harvey, Mary  
**Subject:** Read: FW: DEP File No. 0850102-009-AC - DRAFT

Your message

To: [GaryWiller@cogentrix.com](mailto:GaryWiller@cogentrix.com)  
Subject:

was read on 5/23/2007 4:11 PM.

**Friday, Barbara**

---

**From:** Harvey, Mary  
**Sent:** Wednesday, May 23, 2007 4:18 PM  
**To:** Adams, Patty  
**Subject:** FW: DEP File No. 0850102-009-AC - DRAFT

---

**From:** Willer, Gary [mailto:GaryWiller@cogentrix.com]  
**Sent:** Wednesday, May 23, 2007 4:15 PM  
**To:** Harvey, Mary  
**Subject:** RE: DEP File No. 0850102-009-AC - DRAFT

Thanks!

Gary E. Willer  
General Manager  
Indiantown Cogeneration L.P.  
(772) 597-6500 Ext.25  
Fax (772) 597-6210  
garywiller@cogentrix.com

-----Original Message-----

**From:** Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]  
**Sent:** Wednesday, May 23, 2007 4:09 PM  
**To:** Laryea, Nicholas; Willer, Gary  
**Subject:** FW: DEP File No. 0850102-009-AC - DRAFT

---

**From:** Harvey, Mary  
**Sent:** Wednesday, May 23, 2007 3:38 PM  
**To:** 'Gary.Willer@cogentrix.com'; 'Gary Willer, ICLP:>'; 'Nick Laryea, ICLP:>'; Graziani, Darrel; 'David A. Buff:>'; 'Katy Forney, EPA Region 4:>'; 'James Little, EPA Region 4:.'  
**Cc:** Cascio, Tom; Adams, Patty; Gibson, Victoria  
**Subject:** DEP File No. 0850102-009-AC - DRAFT

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site:

6/26/2007

<http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation



**Friday, Barbara**

---

**From:** Harvey, Mary  
**Sent:** Wednesday, May 23, 2007 3:46 PM  
**To:** Adams, Patty  
**Subject:** FW: DEP File No. 0850102-009-AC - DRAFT

---

**From:** Buff, Dave [<mailto:DBuff@GOLDER.com>]  
**Sent:** Wednesday, May 23, 2007 3:45 PM  
**To:** undisclosed-recipients  
**Subject:** Read: DEP File No. 0850102-009-AC - DRAFT

Your message

To: [DBuff@GOLDER.com](mailto:DBuff@GOLDER.com)  
Subject:

was read on 5/23/2007 3:45 PM.

## MEMORANDUM

To: Trina Vielhauer  
Through: Scott Sheplak *sm*  
From: Tom Cascio *TC*  
Date: May 18, 2007  
Subject: Draft Air Construction Permit No. **0850102-009-AC**  
**Indiantown Cogeneration Plant**

Indiantown Cogeneration, L.P. owns and operates the Indiantown Cogeneration Plant, a facility that generates electricity for sale and exports steam to the Louis Dreyfus Citrus Processing Plant. The facility includes one high-pressure pulverized coal main boiler (PC boiler).

The Indiantown facility uses lime (calcium oxide) as a reactant in the PC boiler flue gas desulfurization (FGD) system. Lime in powdered form is currently delivered to the facility by truck. The lime is then off-loaded into an existing 900-ton storage silo. *Indiantown Cogeneration is proposing to add the capability to receive lime by railcar.*

This facility is an existing major PSD source. The new railcar lime unloading system will have a minimal effect on particulate matter (PM) emissions, and no effect on the emissions of any other air pollutants. Specifically, PM emission increases directly caused by the project would be only on the order of 1 ton per year (TPY).

The application was deemed complete on April 18, 2007. Day 90 is July 17, 2007.

I recommend your signature and forwarding to Patty for clerking.



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

May 23, 2007

*Electronically sent – Received Receipt requested.*

Mr. Gary Willer, General Manager: [Gary.Willer@cogentrix.com](mailto:Gary.Willer@cogentrix.com)  
Indiantown Cogeneration, L.P.  
P.O. Box 1799  
13303 SW Silver Fox Lane  
Indiantown, Florida 34596

Re: DEP File No. 0850102-009-AC  
Indiantown Cogeneration Plant

Dear Mr. Willer:

Enclosed is one copy of the Draft Air Construction Permit to modify the lime unloading system at the Indiantown Cogeneration Plant in Indiantown, Martin County. The Department's Intent to Issue Air Construction Permit, the Technical Evaluation and Preliminary Determination, and the Public Notice of Intent to Issue Air Construction Permit are also included.

The Public Notice must be published one time only as soon as possible in a newspaper of general circulation in the area affected, pursuant to the requirements of Chapter 50, Florida Statutes. Proof of publication, such as a newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in denial of the permit.

Please submit any written comments you wish to have considered concerning the Department's proposed action to A.A. Linero, Program Administrator, at the letterhead address. If you have any questions regarding this matter, please contact Tom Cascio at (850) 921-9526 or Mr. Linero at (850) 921-9523.

Sincerely,

Trina L. Vielhauer, Chief  
Bureau of Air Regulation

TLV/aal/tbc

Enclosures

In the Matter of an  
Application for Permit by:

Indiantown Cogeneration, L.P.  
P.O. Box 1799  
13303 SW Silver Fox Lane  
Indiantown, Florida 34596

DEP File No. 0850102-009-AC  
Indiantown Cogeneration Facility  
Modification of Emissions Unit 006  
Railcar Lime Unloading System  
Martin County, Florida

*Authorized Representative:*

Mr. Gary Willer, General Manager

### **INTENT TO ISSUE AIR CONSTRUCTION PERMIT**

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit, copy of Draft Air Construction Permit attached, for the proposed project as detailed in the application specified above and the enclosed Technical Evaluation and Preliminary Determination for the reasons stated below.

Indiantown Cogeneration, L.P. applied on March 13, 2007, to the Department for a permit to modify the lime handling system at its facility in Indiantown, Martin County.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-212. The above actions are not exempt from permitting procedures. Department has determined that an air construction permit is required.

The Department intends to issue this air construction permit based on the belief that reasonable assurances have been provided to indicate that operation of these emission units will not adversely impact air quality, and the emission units will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C.

Pursuant to Section 403.815, F.S., and Rule 62-110.106(7)(a)1., F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Construction Permit. The notice shall be published one time only in the legal advertisement section of a newspaper of general circulation in the area affected. Rule 62-110.106(7)(b), F.A.C., requires that the applicant cause the notice to be published as soon as possible after notification by the Department of its intended action. For the purpose of these rules, publication in a "newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 850/488-0114; Fax 850/921-9533). You must provide proof of publication within seven days of publication, pursuant to Rule 62-110.106(5) & (9), F.A.C. No permitting action for which published notice is required shall be granted until proof of publication of notice is made by furnishing a uniform affidavit in substantially the form prescribed in section 50.051, F.S. to the office of the Department issuing the permit. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rules 62-110.106(9) & (11), F.A.C.

The Department will issue the final permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed permit issuance action for a period of 14 days from the date of publication of the enclosed Public Notice. Written comments should

be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If comments received result in a change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57, F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3), F.S., must be filed within 14 days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

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

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above. Mediation is not available in this proceeding.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief  
Bureau of Air Regulation

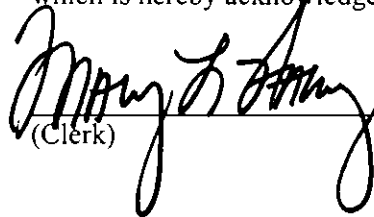
**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Intent to Issue Air Construction Permit (including the Public Notice, Technical Evaluation, and the Draft permit) and all copies were sent electronically (with Received Receipt) before the close of business on 5/23/07 to the persons listed:

Gary Willer, ICLP: [Gary.Willer@cogentrix.com](mailto:Gary.Willer@cogentrix.com)  
Nick Laryea, ICLP: [Nicholas.Laryea@cogentrix.com](mailto:Nicholas.Laryea@cogentrix.com)  
Darrel Graziani, SED: [Darrel.Graziani@dep.state.fl.us](mailto:Darrel.Graziani@dep.state.fl.us)  
David A. Buff: [dbuff@golder.com](mailto:dbuff@golder.com)  
Katy Forney, EPA Region 4: [forney.kathleen@epa.gov](mailto:forney.kathleen@epa.gov)  
James Little, EPA Region 4: [little.james@epa.gov](mailto:little.james@epa.gov)

Clerk Stamp

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

  
(Clerk)

5/23/07  
(Date)

**PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT**

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP File No. 0850102-009-AC

Indiantown Cogeneration Facility  
Modification of Lime Handling System  
Martin County

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit to Indiantown Cogeneration, L.P., to modify the lime handling system located at its facility in Martin County. A review under the rules for the Prevention of Significant Deterioration of Air Quality (PSD) and a determination of best available control technology (BACT) were not required. The applicant's name and address are Indiantown Cogeneration, L.P., 13303 SW Silver Fox Lane, Indiantown, Florida 34596.

The facility includes one high-pressure pulverized coal (PC) main boiler with electrical power output of approximately 330 megawatts, and two identical auxiliary boilers used for supplying steam to the steam host during times when the PC boiler is offline, as well as during PC boiler startup and shutdown periods. In addition, the facility has a variety of ancillary equipment needed to support operations as a coal-fired cogeneration plant.

The facility uses lime (calcium oxide) as a reactant in the PC boiler flue gas desulfurization (FGD) system. Lime in powdered form is currently delivered to the facility by truck. The lime is then off-loaded into an existing 900-ton storage silo. Total throughput of lime into the system is approximately 100 tons per day, or 36,500 tons per year based on 365 days per year operation. This permit adds the capability for the facility to receive lime by railcar.

The new railcar lime unloading system will have a minimal effect on particulate matter (PM) emissions, and no effect on the emissions of any other air pollutants. Specifically, PM emission increases directly caused by the project would be only on the order of 1 ton per year (TPY). Further, the project will not cause or contribute to a violation of the ambient air quality standards and increment.

The Department will issue the Final Air Construction Permit unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments and requests for a public meeting concerning the proposed permit issuance action for a period of 14 days from the date of publication of this Public Notice of Intent to Issue Air Construction Permit. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 of the Florida Statutes (F.S.), before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within 14 days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3), F.S., must be filed within 14 days of publication of the public notice or within 14 days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), F.S., however, any person who asked the Department for

(Public Notice to be Published in the Newspaper)

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

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

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301, F.A.C.

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

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Protection  
Bureau of Air Regulation  
Suite 4, 111 S. Magnolia Drive  
Tallahassee, Florida 32301  
Telephone: 850/488-0114  
Fax: 850/921-9533

Department of Environmental Protection  
Southeast District Office  
400 North Congress Avenue  
West Palm Beach, Florida 33416-5425  
Telephone: 407/681-6600  
Fax: 407/681-6755

The complete project file includes the permit application, draft air construction permit, technical evaluation, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Department's reviewing engineer for this project, Tom Cascio at MS 5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, or [Tom.Cascio@dep.state.fl.us](mailto:Tom.Cascio@dep.state.fl.us), or call 850/921-9526 for additional information. Key documents may also be viewed at: [www.dep.state.fl.us/Air/permitting/construction.htm](http://www.dep.state.fl.us/Air/permitting/construction.htm) and clicking on Indiantown Cogeneration Plant in the power plant category.





# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

## P.E. Certification Statement

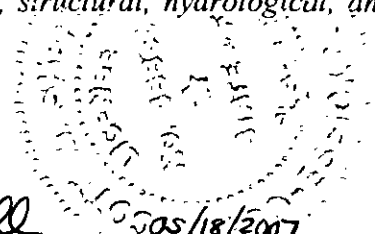
**Applicant:**

Indiantown Cogeneration, L.P.  
Indiantown Cogeneration Plant

**Project No.:** 0850102-009-AC

**Project Type:** Air Construction Permit, Addition of Lime Railcar Unloading System

*I HEREBY CERTIFY that the engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical, structural, hydrological, and geological features).*



*Scott M. Sheplak*

Scott M. Sheplak  
Professional Engineer (P.E.)  
License Number 48866

05/18/2007  
Date

Permitting Authority:

Department of Environmental Protection  
Bureau of Air Regulation  
111 South Magnolia Drive, Suite 4  
Tallahassee, Florida 32301  
Telephone: 850/921-9532  
Fax: 850/921-9533

SMS/tbc

**TECHNICAL EVALUATION  
AND  
PRELIMINARY DETERMINATION**

Indiantown Cogeneration, L.P.  
Indiantown Cogeneration Plant  
Railcar Lime Unloading System  
Martin County

DEP File No. 0850102-009-AC



Florida Department of Environmental Protection  
Division of Air Resource Management  
Bureau of Air Regulation  
Permitting South Section

May 23, 2007

# TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

---

## 1. GENERAL PROJECT INFORMATION

### Applicant Name and Address

Indiantown Cogeneration, L.P.  
P.O. Box 1799  
13303 S.W. Silver Fox Lane  
Indiantown, Florida 34956

### Authorized Representative:

Mr. Gary E. Willer, General Manager

### Processing Schedule

03/13/07: Received application to construct.  
04/02/07: Requested additional information.  
04/18/07: Received additional information.  
###/###/###: Distributed Intent to Issue Permit.

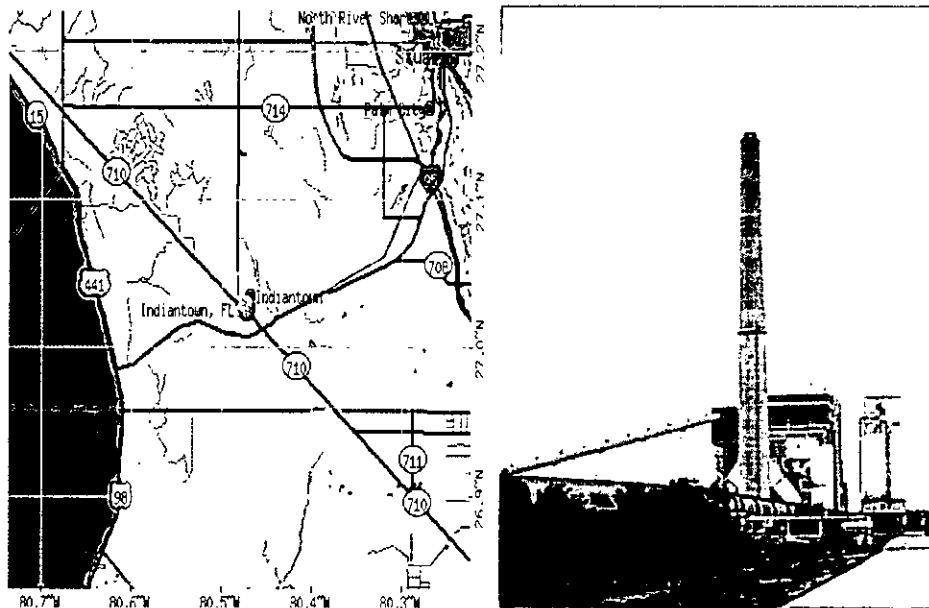
### Facility Description and Location

Indiantown Cogeneration, L.P. (Indiantown Cogeneration) owns and operates the Indiantown Cogeneration Plant, a facility that generates electricity for sale and exports steam to the Louis Dreyfus Citrus Processing Plant. The facility includes one high-pressure pulverized coal main boiler (PC boiler), rated at 3,422 million British thermal units (MMBtu)/hour heat input, and has a nominal net electrical power output of approximately 330 megawatts (MW). It is designated emissions unit 1 (EU 001) in the Department's Air Resource Management System (ARMS). It is permitted to fire natural gas, propane, or No. 2 fuel oil for startup, shutdown, or load changes. It commenced commercial operation in July, 1995. The unit is equipped with low nitrogen oxides (NO<sub>x</sub>) burners, overfire air, a steam coil air heater and air preheater, dual register burners and windbox design, a selective catalytic reduction system, a spray dryer absorber, and a fabric filter baghouse.

Also included are two identical auxiliary boilers used for supplying steam to the steam host during times when the PC boiler is offline, as well as during PC boiler startup and shutdown periods. They have a combined total heat input rate of 358 MMBtu/hour, and are permitted to fire natural gas, propane, or No. 2 fuel oil. Steam produced by the auxiliary boilers is not used to generate electricity. In addition, the facility has a variety of ancillary equipment needed to support operations as a coal-fired cogeneration plant.

This facility is located 9 miles east of Lake Okeechobee, and 3 miles northwest of Indiantown, Martin County; Universal Transverse Mercator (UTM) Coordinates are: Zone 17, 422.3 km East and 2952.9 km North; Latitude: 27° 02' 20" North and Longitude: 80° 30' 45" West.

# TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION



**Figure 1. Map of Indiantown Site Location and Photograph of Indiantown Cogeneration Plant.**

## Major Regulatory Categories

The key regulatory provisions applicable to the facility are:

*Title I, Part C, Clean Air Act (CAA):* The facility is located in an area that is designated as “attainment”, “maintenance”, or “unclassifiable” for each pollutant subject to a National Ambient Air Quality Standard (NAAQS). It is classified as a “fossil fuel-fired steam electric plant of more than 250 million BTU per hour of heat input”, which is one of the 28 Prevention of Significant Deterioration (PSD) Major Facility Categories with the lower PSD applicability threshold of 100 tons per year. Potential emissions of at least one regulated pollutant exceed 100 tons per year, therefore the facility is classified as a “major stationary source” of air pollution with respect to Rule 62-212.400 F.A.C., Prevention of Significant Deterioration of Air Quality.

*Title I, Section 111, CAA:* The PC boiler is subject to Subpart Da (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) of the New Source Performance Standards in 40 CFR 60.

*Title I, Section 112, CAA:* The facility is a “Major Source” of hazardous air pollutants (HAPs).

*Title V, CAA:* The facility is a Title V or “Major Source of Air Pollution” in accordance with Chapter 62-213, F.A.C., because the potential emissions of at least one regulated pollutant exceed 100 tons per year. Regulated pollutants include pollutants such as carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), particulate matter (PM/PM<sub>10</sub>), sulfur dioxide (SO<sub>2</sub>), and volatile organic compounds (VOC). The plant currently operates under Title V Air Operations Permit No. 0850102-007-AV.

*CAIR:* The facility is subject to the Federal Clean Air Interstate Rule (CAIR) in accordance with the Final Department Rules issued pursuant to CAIR as implemented by FDEP in Rule 62-296.470, Florida Administrative Code (FAC).

*CAMR:* The facility is subject to the Federal Clean Air Mercury Rule (CAMR) implemented by the Department in Rule 62-296.480, F.A.C.

*Siting:* The facility is a steam electrical generating plant and is subject to the power plant siting provisions of Chapter 62-17, F.A.C.

# TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

---

## Proposed Project

The Indiantown facility uses lime (calcium oxide) as a reactant in the PC boiler flue gas desulfurization (FGD) system. Lime in powdered form is currently delivered to the facility by truck. The lime is then off-loaded into an existing 900-ton storage silo. Lime from the trucks is transported to the silo via pneumatic discharge at the rate of 25 tons per hour (TPH) (i.e., it requires one hour to unload a 25-ton truck) by using the on-board blowers to transfer the lime to the top of the silo. The stored lime is then slaked into a slurry for use in the PC boiler spray dryer absorber. The lime silo has a bin felt fabric filter baghouse. This Lime Handling System is enclosed to the extent practical. Total throughput of lime into the system is approximately 100 tons per day, or 36,500 tons per year (TPY) based on 365 days per year operation.

Indiantown Cogeneration is proposing to add the capability to receive lime by railcar. Unloading of the gravity flow-type railcars will be accomplished through a dilute phase, combination vacuum and pressure pneumatic transfer system at a rate of 25 TPH. It is estimated that it will take approximately 4 hours to unload a 100-ton railcar.



**Figure 2. Photograph of a typical bottom dump railcar.**

The lime will be unloaded directly from gravity-fed, bottom dump railcars through a receiving pan and bin clamped onto the flange at the bottom of the railcar. The bin will be located below ground level, and unloading will occur inside a building (open on either end to allow railcars to pass through). This procedure will keep the process material flowing from the railcar into the transport system and will minimize fugitive particulate matter (PM) dust emissions from the unloading process.

The lime will then enter a vacuum-type unloading system that transports the lime from the railcar to a filter receiver. The filter receiver acts as both a collection bin and a mechanism to clean the transport air of PM, since it has an integral baghouse (new control device, MAC Equipment, Inc., Air Vent Filter, Model 39AVR32, Style III). A rotary air lock will then feed the lime into the air lock surge hopper, which will have a vent to control the pressure differential across the airlock. A baghouse (new control device, MAC Equipment, Inc., 39RTC, Style II) will control the PM emissions from the surge hopper vent. The lime will then enter a secondary rotary air lock, which will feed into the air stream created from a transporter blower, which transports the lime pneumatically to the existing lime silo. The lime silo currently has a dust collector (existing baghouse), and this will continue to be used in the future.

As described above, a baghouse is integral to the filter receiver on the railcar unloading system, which reduces PM emissions associated with unloading the railcars. The existing bin vent filter baghouse (BHA

## **TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION**

---

Model JP-H14) on the lime silo will continue to serve to reduce the PM emissions associated with loading the silo.

### **Interface with Existing Lime Handling Equipment**

As noted above, lime is currently delivered to the facility by pressurized discharge from trucks and vented through the lime vent filter. The new railcar lime unloading system will use a vacuum exhaustor to provide negative pressure into the filter receiver. The new lime transport system will then interface with the existing transport piping to the lime silo. The lime will be conveyed to the lime silo from the filter receiver by a blower through a rotary air lock. The exhaust from the lime silo will continue to be vented through the existing lime silo vent filter.

The existing 4-inch transport piping up the side of the lime silo will remain, and a new 6-inch line will be added. This new line will terminate at a 90-degree elbow that will direct the new lime stream through a new penetration in the roof of the lime silo. This new penetration will be near the penetration for the existing supply line. The existing supply line will be kept in place in order to account for possible railcar supply interruptions, which would make it necessary to receive lime deliveries by trucks.

## **2. EFFECTS ON EMISSIONS**

### **Applicant's basic analysis**

It is expected that implementing the proposed project will have a minimal effect on the PM emissions from the Lime Handling System, designated as emission unit 6 (EU 006) in the ARMS data base. No effect on other pollutant emissions is expected. As described above, the new railcar lime unloading system includes one existing and two new baghouse vents. The railcar lime unloading system will become an integral part of the overall system design. PM emissions from the Lime Handling System are currently limited by Title V Air Operation Permit No. 0850102-007-AV, which contains the following specific condition:

*E.5. Particulate Matter. Particulate matter emissions from bag filter exhausts from the lime handling system shall be limited to 0.010 grains per actual cubic foot.  
[PSD-FL-168, Specific Condition No. 11]*

The Applicant reports that Indiantown Cogeneration, L.P. has obtained a manufacturer's guarantee that the outlet loading for the new two baghouse vents (bag filter exhausts) will not exceed 0.010 grains per actual cubic foot. Note that this limit is equal to the existing PM outlet loading limit specified in Specific Condition E.5. of the facility's current Title V Air Operation Permit.

Using appropriate volumetric flow data, estimates of the potential to emit (PTE) PM in pounds per hour (lb/hr) and tons per year (TPY) from the three baghouse vents in the modified lime handling system are calculated and noted in the table below:

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Source	Control Equipment	Exhaust Flow (acfm)	Permitted Exhaust Grain Loading (gr/acf)	Operating Hours (hr/yr)	Potential to Emit (PTE)	
					PM/PM <sub>10</sub> Emission Rate (lb/hr)	(TPY)
Lime Silo (existing system)	Baghouse	2,000	0.010	8,760	0.17	0.75
Railcar Unloading Filter Receiver (new system)	Baghouse	1,570	0.010	8,760	0.13	0.59
Surge Hopper (new system)	Baghouse	86	0.010	8,760	0.01	0.03
				Totals (new system with 2 additional baghouses)	0.31	1.37

Note: acfm = actual cubic feet per minute; gr/acf = grains per actual cubic foot; hr/yr = hours per year; lb/hr = pounds per hour; and TPY = tons per year.

The Applicant indicated that although the design airflow for the blower is 1,500 internal cubic per minute (icfm) when the system is operating at 25 TPH of lime being transported, using 2,000 acfm as the exhaust flow rate through the lime silo baghouse provides for a margin of error when computing PTE estimates. *Analysis of this tabular data shows that the total PTE of the new system is only 1.37 tons per year.*

### 3. REGULATIONS THAT APPLY TO THE PROJECT

#### State Regulations

This project is subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The Florida Statutes authorize the Department of Environmental Protection to establish rules and regulations regarding air quality as part of the Florida Administrative Code (F.A.C.). This project is subject to the applicable rules and regulations defined in the following Chapters of the Florida Administrative Code. These include: 62-4 (Permitting Requirements); 62-204 (Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference); 62-210 (Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms); 62-212 (Preconstruction Review, PSD Review and BACT); 62-213 (Title V Air Operation Permits for Major Sources of Air Pollution); 62-296 (Emission Limiting Standards); and 62-297 (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures).

# TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

## 4. DETERMINATION WHETHER PROJECT IS A (NON-MAJOR) MODIFICATION

Per Rule 62-210.200(203), F.A.C., a modification is defined as follows:

*“Modification” – Any physical change in, change in the method of operation of, or addition to a facility which would result in an increase in the actual emissions of any air pollutant subject to regulation under the Act, including any not previously emitted, from any emissions unit or facility.*

(a) *A physical change or change in the method of operation shall not include:*

1. *Routine maintenance, repair, or replacement of component parts of an emissions unit; or*
2. *A change in ownership of an emissions unit or facility.*

(b) & (c) *(Not relevant in this analysis)*

The installation of the railcar lime unloading system is a physical change that involves additional components. It is not routine maintenance, repair or replacement of component parts of an emissions unit. If increases in actual emissions accompany the physical change, then the project constitutes a modification.

Per Rule 62-210.200(11), F.A.C., actual emissions are defined as follows:

*“Actual Emissions” – The actual rate of emission of a pollutant from an emissions unit as determined in accordance with the following provisions:*

(a) *In general, actual emissions as of a particular date shall equal the average rate, in tons per year, at which the emissions unit actually emitted the pollutant during a consecutive 24-month period which precedes the particular date and which is representative of the normal operation of the emissions unit. The Department shall allow the use of a different time period upon a determination that it is more representative of the normal operation of the emissions unit. Actual emissions shall be calculated using the emissions unit’s actual operating hours, production rates and types of materials processed, stored, or combusted during the selected time period.*

Actual emissions are calculated as reported in Annual Operating Reports in tons per year (TPY) as noted below:

Year	PM TPY	PM <sub>10</sub> TPY
2001	.0009	.0004
2002	.0009	.0005
2003	.1	N/A
2004	.001	.001
2005	.002	.001

The following table is a comparison of past actual emissions from the Lime Handling System preceding the planned Railcar Lime Unloading System project, and the potential emissions of the new system.

Pollutant	Actual Emissions 2004-2005 tons per year	Potential Emissions tons per year (new system)	Calculated Increase tons per year
PM/PM <sub>10</sub>	.001	1.37	<b>1.369</b>



## **TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION**

Based on the foregoing analysis, the Railcar Lime Unloading System project constitutes a (non-major) modification with respect to the Department's rules and requires a construction permit.

### **5. OTHER APPLICABLE REGULATIONS**

The requirements already listed in the facility's existing Title V Air Operation Permit No. 0850102-007-AV are comprehensive and sufficient for the future operation of the facility. The main additional requirement is for an air construction permit pursuant to Rules 62-4, 62-210 and 62-212.300, F.A.C., to proceed with the project. The permit will include testing and recordkeeping conditions demonstrating that the project complies with the specified emissions standards.



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

## PERMITTEE

Indiantown Cogeneration, L.P.  
P.O. Box 1799  
13303 SW Silver Fox Lane  
Indiantown, Florida 34596

*Authorized Representative:*  
Mr. Gary Willer, General Manager

Air Permit No. 0850102-009-AC  
Facility ID No. 0850102  
SIC No. 4931  
Railcar Lime Unloading System

Permit Expires: December 31, 2008

## PROJECT AND LOCATION

This permit authorizes installation of a railcar lime unloading system as an integral part of the Lime Handling System, designated as EU 006 by the Department of Environmental Protection (Department) Air Resource Management System, located at the Indiantown Cogeneration Plant (the facility). The facility is located in Martin County at 13303 SW Silver Fox Lane, Indiantown, Florida 34596.

## STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.) and Title 40, Parts 60 and 63 of the Code of Federal Regulations (CFR). The permittee is authorized to install the proposed equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department.

## CONTENTS

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

\_\_\_\_\_  
Joseph Kahn, Director  
Division of Air Resource Management

\_\_\_\_\_  
(Date)

## SECTION 1. GENERAL INFORMATION

### FACILITY AND PROJECT DESCRIPTION

Indiantown Cogeneration, L.P. (Indiantown Cogeneration) owns and operates the Indiantown Cogeneration Plant, a facility that generates electricity for sale and exports steam to the Louis Dreyfus Citrus Processing Plant. The facility includes one high-pressure pulverized coal main boiler (PC boiler), rated at 3,422 million British thermal units (MMBtu)/hour heat input, and has a nominal net electrical power output of approximately 330 megawatts (MW). It is designated as emissions unit 1 (EU 001) in the Department's Air Resource Management System (ARMS). It is permitted to fire natural gas, propane, or No. 2 fuel oil for startup, shutdown, or load changes. It commenced commercial operation in July, 1995. The unit is equipped with low nitrogen oxides (NO<sub>x</sub>) burners, overfire air, a steam coil air heater and air preheater, dual register burners and windbox design, a selective catalytic reduction system, a spray dryer absorber, and a fabric filter baghouse.

Also included are two identical auxiliary boilers used for supplying steam to the steam host during times when the PC boiler is offline, as well as during PC boiler startup and shutdown periods. They have a combined total heat input rate of 358 MMBtu/hour, and are permitted to fire natural gas, propane, or No. 2 fuel oil. Steam produced by the auxiliary boilers is not used to generate electricity. In addition, the facility has a variety of ancillary equipment needed to support operations as a coal-fired cogeneration plant.

The Indiantown facility uses lime (calcium oxide) as a reactant in the PC boiler flue gas desulfurization (FGD) system. Lime in powdered form is currently delivered to the facility by truck. The lime is then off-loaded into an existing 900-ton storage silo. Lime from the trucks is transported to the silo via pneumatic discharge at the rate of 25 tons per hour (TPH) (i.e., it requires one hour to unload a 25-ton truck) by using the on-board blowers to transfer the lime to the top of the silo. The stored lime is then slaked into a slurry for use in the PC boiler spray dryer absorber. The lime silo has a bin felt fabric filter baghouse. This Lime Handling System (EU 006) is enclosed to the extent practical. Total throughput of lime into the system is approximately 100 tons per day, or 36,500 tons per year (TPY) based on 365 days per year operation.

Indiantown Cogeneration is proposing to add the capability to receive lime by railcar. Unloading of the gravity flow-type railcars will be accomplished through a dilute phase, combination vacuum and pressure pneumatic transfer system at a rate of 25 TPH. It is estimated that it will take approximately 4 hours to unload a 100-ton railcar.

ID	Emission Unit Description
006	Lime Handling System

### REGULATORY CLASSIFICATION

**NESHAP:** The facility is a potential major source of hazardous air pollutants. The facility does not operate units subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) in 40 CFR 63.

**Title IV:** The facility does not operate existing units subject to the Acid Rain provisions of the Clean Air Act (CAA).

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

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

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

- 40 CFR 60, Subpart A - General Provisions.

## SECTION 1. GENERAL INFORMATION

---

- 40 CFR 60, Subpart Da (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978).

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

CAMR: The facility is subject to the Clean Air Mercury Rule (CAMR).

Siting: The facility is a steam electrical generating plant and IS subject to the power plant siting provisions of Chapter 62-17, F.A.C.

### RELEVANT DOCUMENTS

The following relevant documents are not a part of this permit, but helped form the basis for this permitting action: the permit application and additional information received to make it complete; and the Department's Technical Evaluation and Preliminary Determination.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

---

1. Permitting Authority: The Permitting Authority for this project is the Bureau of Air Regulation in the Division of Air Resource Management of the Department. The mailing address for the Bureau of Air Regulation is 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Southeast District Office. The mailing address and phone number of the Southeast District Office is: 400 North Congress Avenue, West Palm Beach, Florida 33416-5425, Telephone: 407/681-6600, Fax: 407/681-6755.
3. Appendices: The following Appendices are attached as part of this permit: Appendix GC (General Conditions); and Appendix C (Common State Regulatory Requirements).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications: No emissions unit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Title V Permit: This permit authorizes specific modifications and/or new construction on the affected emissions units as well as initial operation to determine compliance with conditions of this permit. A Title V operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after completing the required work and commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Bureau of Air Regulation with copies to each Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

### SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

This section of the permit addresses the following emissions unit.

#### **AIR RESOURCE MANAGEMENT SYSTEM (ARMS) Emissions Unit 006**

The Lime Handling System is comprised of different conveying and storage units. Currently, lime arrives at the facility in powdered form via truck. Lime is slaked into a slurry for use in the pulverized coal (PC) boiler spray dryer absorber. The lime silo has a bin vent fabric filter baghouse. The lime handling system is enclosed to the extent practical. The overall capacity is 25 tons per hour. Because the potential to emit particulate matter (PM) is below the major source threshold, this emissions unit is not subject to CAM.

*{Permitting Note: The unit remains subject to the applicable requirements of current Title V Air Operation Permit No. 0850102-007-AV.}*

#### PREVIOUS APPLICABLE REQUIREMENTS

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

#### EQUIPMENT AND PERFORMANCE RESTRICTIONS

2. Railcar Lime Unloading System: This permit authorizes the construction activities necessary to add a railcar lime unloading system to ARMS Emissions Unit 006. In general, the equipment consists of a system that allows the unloading of the gravity flow-type railcars through a dilute phase, combination vacuum and pressure pneumatic transfer system at a rate of 25 tons per hour (TPH) of lime. It is estimated that it will take approximately 4 hours to unload a 100-ton railcar.

The modified Lime Handling System includes an existing lime silo bin vent filter baghouse, a new filter receiver baghouse, and a new surge hopper baghouse. [Applicant request.]

*{Permitting Note: This permit does not alter any previous requirements for other methods of operation or allowable hours of operation.}*

#### EMISSIONS STANDARDS

3. Visible Emissions (VE): Visible emissions from each of the three lime handling system baghouses shall not exceed 5% opacity. [PSD-FL-168, Specific Condition No. 8.]
4. Particulate Matter (PM): Particulate matter emissions from each bag filter exhaust of the lime handling system shall be limited to 0.010 grains per actual cubic foot. [PSD-FL-168, Specific Condition No. 11; and Applicant request.]
5. Visible Emissions: A visible emission reading of 5% opacity or less may be used to establish compliance with the emission limit in Specific Condition 4. A visible emission reading greater than 5% opacity will not create a presumption that the 0.010 grains per actual cubic foot emission limit is being violated. However, a visible emission reading greater than 5% opacity will require the permittee to perform a stack test. [PSD-FL-168, Specific Condition No. 11.]

### SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

---

#### EMISSIONS PERFORMANCE TESTING

6. Initial Compliance Tests: Each unit shall be tested to demonstrate initial compliance with the VE and PM emissions standards specified in this permit. The initial tests shall be conducted within 60 days after completing construction of the project and achieving maximum production capacity, but not later than 180 days after initial operation of the unit with the railcar lime unloading system. [Rule 62-297.310(7)(a)1., F.A.C.]
7. Annual Compliance Tests: During each federal fiscal year (October 1<sup>st</sup> to September 30<sup>th</sup>), each unit shall be tested to demonstrate compliance with the VE and PM emissions standards specified in this permit.  
[Rule and 62-297.310(7)(a)4, F.A.C.]
8. Test Notifications: At least 15 days prior to the date on which each required test is to begin, the permittee shall notify the Compliance Authority of the date, time, and place of each test. The notification shall also include the name and phone number of the contact person who will be responsible for coordinating and having the tests conducted. [Rule 62-297.310(7)(a)9, F.A.C.]
9. Visible Emissions: EPA Method 9 shall be used to determine opacity compliance pursuant to Chapter 62-297, F.A.C.  
[PSD-FL-168, Specific Condition No. 19.]
10. Opacity: Tests must be conducted with a lime railcar unloading into the lime handling system, from start to finish. Emissions shall not be visible more than two minutes in any fifteen minute period. Compliance with fugitive emissions limitations from all transfer points will be determined by EPA/DEP reference Method 22 and opacity Method 9.  
[PSD-FL-168, Specific Conditions No. 12. and 19.; and Rule 62-4.070(3), F.A.C.]
11. Particulate Matter: EPA Method 5 shall be used to determine compliance with the particulate matter emissions limitation specified in Specific Condition 4.  
[PSD-FL-168, Specific Condition No. 19.]

#### NOTIFICATIONS, RECORDS AND REPORTS

12. Construction Notifications: Within 15 days of beginning construction, the permittee shall notify the Compliance Authority that construction has commenced. Within 15 days of completing construction, the permittee shall notify the Compliance Authority that construction has concluded. Each notification shall include an updated proposed schedule of activities through the initial shakedown period and initial testing. [Rule 62-4.070(3), F.A.C.]
13. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in the facility's current Title V Air Operation Permit.  
[Rule 62-297.310(8), F.A.C.]

**SECTION 4. APPENDIX C**  
**COMMON STATE REGULATORY REQUIREMENTS**

---

*{Permitting Note: Unless otherwise specified by permit, the following conditions apply to all emissions units and activities at the facility.}*

**EMISSIONS AND CONTROLS**

1. **Plant Operation - Problems:** If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]
2. **Circumvention:** The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
3. **Excess Emissions Allowed:** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]
4. **Excess Emissions Prohibited:** Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]
5. **Excess Emissions - Notification:** In case of excess emissions resulting from malfunctions, the permittee shall notify the Department or the appropriate Local Program in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]
6. **VOC or OS Emissions:** No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]
7. **Objectionable Odor Prohibited:** No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) and 62-210.200(217), F.A.C.]
8. **General Visible Emissions:** No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20 percent opacity. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]
9. **Unconfined Particulate Emissions:** During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering and/or application of water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4)(c), F.A.C.]

**TESTING REQUIREMENTS**

10. **Required Number of Test Runs:** For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured; provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five-day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five-day period allowed for the test, the Secretary or his or her designee may accept the results of two complete runs as proof of compliance, provided that the arithmetic mean of the two complete runs is at least 20% below the allowable emission limiting standard. [Rule 62-297.310(1), F.A.C.]



**SECTION 4. APPENDIX C**  
**COMMON STATE REGULATORY REQUIREMENTS**

---

11. Operating Rate During Testing: Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rule 62-297.310(2), F.A.C.]
12. Calculation of Emission Rate: For each emissions performance test, the indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]
13. Test Procedures: Tests shall be conducted in accordance with all applicable requirements of Chapter 62-297, F.A.C.
  - a. *Required Sampling Time*. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes. The minimum observation period for a visible emissions compliance test shall be thirty (30) minutes. The observation period shall include the period during which the highest opacity can reasonably be expected to occur.
  - b. *Minimum Sample Volume*. Unless otherwise specified in the applicable rule or test method, the minimum sample volume per run shall be 25 dry standard cubic feet.
  - c. *Calibration of Sampling Equipment*. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1, F.A.C.[Rule 62-297.310(4), F.A.C.]
14. Determination of Process Variables:
  - a. *Required Equipment*. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.
  - b. *Accuracy of Equipment*. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.[Rule 62-297.310(5), F.A.C.]
15. Sampling Facilities: The permittee shall install permanent stack sampling ports and provide sampling facilities that meet the requirements of Rule 62-297.310(6), F.A.C.
16. Test Notification: The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. [Rule 62-297.310(7)(a)9, F.A.C.]
17. Special Compliance Tests: When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department. [Rule 62-297.310(7)(b), F.A.C.]
18. Test Reports: The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test. The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to

**SECTION 4. APPENDIX C**  
**COMMON STATE REGULATORY REQUIREMENTS**

---

determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

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

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

**RECORDS AND REPORTS**

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

## SECTION 4. APPENDIX GC

### General Permit Conditions

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

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

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

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

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source

## SECTION 4. APPENDIX GC

---

### General Permit Conditions

arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

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