

# Florida Department of Environmental Protection

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## Memorandum

To: Joseph Kahn, Division of Air Resource Management  
Through: Trina Vielhauer, Bureau of Air Regulation *TV*  
From: Jeff Koerner, New Source Review Section *JK*  
Date: May 17, 2010  
Subject: Final Air Permit No. 0530021-027-AC  
Central Power & Lime, Inc., Power Plant Boiler  
Revision of the Trial Burn of Wood Pellets

Attached for your review is a final minor air construction permit package for the existing power plant boiler at Central Power & Lime, Inc., which is located in Hernando County at 10311 Cement Plant Road in Brooksville, Florida. Originally, Permit No. 0530021-023-AC authorized a temporary trial burn of commercial wood pellets to supplement coal in the power plant boiler. The trial burn was interrupted due to wet weather, which adversely affected handling the compressed wood pellets. In addition, cold weather forced the plant to delay the trial burn and return to firing all coal. This permit package revises the original permit to authorize additional time to complete the trial burn. The project is not considered a new source review reform project and is not subject to PSD preconstruction review. I recommend your approval of the attached final permit package.

Attachments

TLV/jfk

## FINAL DETERMINATION

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### PERMITTEE

Central Power and Lime (CPL), Inc.  
10311 Cement Plant Road  
Brooksville, FL 34601

### PERMITTING AUTHORITY

Florida Department of Environmental Protection (Department)  
Division of Air Resource Management  
Bureau of Air Regulation, New Source Review Section  
2600 Blair Stone Road, MS #5505  
Tallahassee, Florida 32399-2400

### PROJECT

Air Permit No. 0530021-027-AC  
Minor Air Construction Permit  
CPL Power Plant  
Trial Burn of Commercial Wood Pellets

Central Power and Lime, Inc. operates an existing power plant boiler in Hernando County at 10311 Cement Plant Road in Brooksville, Florida. Originally, Permit No. 0530021-023-AC authorized a temporary trial burn of commercial wood pellets to supplement coal in the power plant boiler. The trial burn was interrupted due to wet weather, which adversely affected handling the compressed wood pellets. In addition, cold weather forced the plant to delay the trial burn and return to firing all coal. This permit package revises the original permit to authorize additional time to complete the trial burn.

### NOTICE AND PUBLICATION

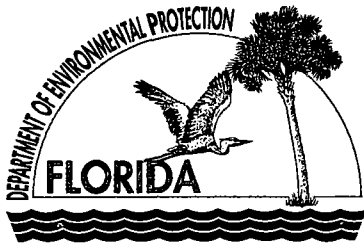
The Department distributed a draft minor air construction permit package on April 22, 2010. The applicant published the Public Notice in the Hernando Times on April 28, 2010. The Department received the proof of publication on May 11, 2010. No requests for administrative hearings or requests for extensions of time to file a petition for administrative hearing were received.

### COMMENTS

No comments on the Draft Permit were received.

### CONCLUSION

The final action of the Department is to issue the final permit as drafted.



# 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

Central Power and Lime (CPL), Inc.  
10311 Cement Plant Road  
Brooksville, FL 34601

Air Permit No. 0530021-027-AC  
Permit Expires: May 18, 2011  
Air Construction Permit Revision

Authorized Representative:  
Mr. Terry Woodard, Power Plant Manager

CPL Power Plant  
Trial Burn of Commercial Wood Pellets

## PROJECT

This is the final air construction permit to revise original Permit No. 0530021-023-AC to authorize the temporary trial burn of commercial wood pellets in the existing CPL electric utility power plant boiler, which is categorized under (Standard Industrial Classification No. 4911). The existing power boiler is collocated with the Cemex Brooksville Cement Plant in Hernando County at 10311 Cement Plant Road in Brooksville, Florida. The UTM coordinates of the existing facility are Zone 17, 360.0 km East, and 3162.5 km North.

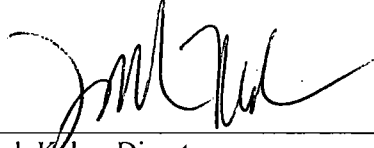
This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

## STATEMENT OF BASIS

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

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

Executed in Tallahassee, Florida

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

5/19/10  
\_\_\_\_\_  
(Date)

**FINAL PERMIT**

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**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit with Appendices) was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on 5/20/10 to the persons listed below.

- Mr. Terry Woodard, CPL Power Plant (twoodard@deltapowerservices.com)
- Mr. Larry Roberts, CPL Power Plant (lroberts@deltapowerservices.com)
- Mr. Max Lee, Koogler and Associates, Inc. (mlee@kooglerassociates.com)
- Ms. Mara Nasca, DEP Southwest District Office (mara.nasca@dep.state.fl.us)
- Mr. Mike Halpin, DEP Siting Office (mike.halpin@dep.state.fl.us)
- Ms. Kathleen Forney, EPA Region 4 (forney.kathleen@epa.gov)
- Ms. Heather Abrams, EPA Region 4 (abrams.heather@epa.gov)
- Ms. Ana M. Oquendo, EPA Region 4 (oquendo.ana@epa.gov)
- Ms. Vickie Gibson, DEP BAR Reading File (victoria.gibson@dep.state.fl.us)

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

  
\_\_\_\_\_  
(Clerk)

5/20/10  
(Date)

## SECTION 1. GENERAL INFORMATION

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### FACILITY DESCRIPTION

The existing CPL Power Plant is collocated in Hernando County with the Cemex Construction Materials, LLC Brooksville South Cement Plant at 10311 Cement Plant Road in Brooksville, Florida. The primary Standard Industrial Classification Code (SIC) for the facility is No. 3241 for cement production. The power plant is categorized as SIC No. 4911 for electric power services. The unit includes a continuous opacity monitoring system (COMS) at the stack, a continuous emissions monitoring system (CEMS) for sulfur dioxide (SO<sub>2</sub>) at the stack and a CEMS for nitrogen oxides (NO<sub>x</sub>) at the power duct.

### PROPOSED PROJECT

CPL proposes a temporary trial burn of 2000 tons of commercially manufactured wood pellets to supplement the primary fuel of coal in the power plant boiler. The stated purpose of the project is to examine the feasibility of receiving, storing, handling and firing the commercial-grade wood pellets. Although this alternative fuel is currently six times the cost of coal it may become an economical alternative fuel if new laws and regulations address greenhouse gas emissions. The revised permit extends the expiration date and provides for additional trial periods.

This project is subject to the general preconstruction review requirements in Rule 62-212.300, Florida Administrative Code (F.A.C.) and is not subject to PSD preconstruction review requirements for major stationary sources pursuant to Rule 62-212.400, F.A.C. This project will affect the following existing emissions unit.

| Facility ID No. 0530021 |   |
|-------------------------|---|
| ID No.                  | Emission Unit Description   |
| 018                     | Power Plant Boiler, 1850 million British thermal units (MMBtu) per hour of heat input |

### FACILITY REGULATORY CLASSIFICATION

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

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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1. Permitting Authority: The permitting authority for this project is the Bureau of Air Regulation, Division of Air Resource Management, Florida Department of Environmental Protection (Department). The Bureau of Air Regulation's mailing address is 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400. All documents related to applications for permits to operate an emissions unit shall be submitted to the Air Resource Section of the Department's Southwest District Office at 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Air Resource Section of the Department's Southwest District Office at 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926.
3. Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); and Appendix D (Common Testing 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 new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Source Obligation: At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification. [Rule 62-212.400(12), F.A.C.]
8. Application for Title V Permit: This project authorizes a temporary trial burn to collect operational and emissions data to evaluate the feasibility of co-firing commercial wood pellets with the primary fuel of coal. Based on the data collected, the permittee may seek permanent authorization to co-fire commercial wood pellets with coal. Permanent authorization will require submittal of an application for an air construction permit as well a revision to the Title V air operation permit. [Rules 62-4.030, 62-4.050, 62-4.220 and Chapter 62-213, F.A.C.]

**SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS**

**A. CPL Power Boiler**

This section of the permit addresses the following emissions unit.

| ID No. | Emission Unit Description                                   |
|--------|---|
| 018    | Power Plant Boiler, 1850 MMBtu/hour maximum heat input rate |

**EXISTING PERMITS**

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

**TEMPORARY PROJECT**

2. **Commercial Wood Pellets:** In accordance with the conditions of this permit, the permittee is authorized to co-fire with coal up to 2000 tons of commercial wood pellets manufactured by Green Circle Bioenergy (or equivalent wood pellets consisting only of wood and bark with no chemical additives or contaminants). If the permittee later determines that this amount is insufficient to complete the trial burn, the permittee may fire an additional 2000 tons of commercial wood pellets after providing written notification to the Bureau of Air Regulation and the Compliance Authority. Total wood pellet firing shall not exceed 4000 tons. [Application No. 0530021-023-AC and Rule 62-4.070(3), F.A.C.]
3. **Trial Periods:** The permittee is authorized for up to three “trial periods” as necessary.
  - a. *First Trial Period:* Once commercial wood pellets have been first fired in the power boiler, the permittee shall have 90 calendar days to complete the trial burn and conduct the tests. This initial trial period has expired. {Permitting Note: The initial trial period began in January of 2010 and 250 tons of wood pellets were fired. Emissions data were collected for all pollutants except particulate matter at the maximum wood pellet firing rate.}
  - b. *Second Trial Period:* Upon issuance of this final permit, a second trial period is authorized. Once commercial wood pellets have been fired in the power boiler for the second trial period, the permittee shall have 90 calendar days to complete the trial burn and conduct the remaining tests. During the second trial period, the permittee shall complete stack testing for particulate matter while firing wood pellets at the expected maximum rate. The permittee shall continue to collect the operational, CEMS and process monitor data required by this permit.
  - c. *Third Trial Period:* If the allowable amount of wood pellets has not yet been fired, a third trial period is authorized. After compiling the required stack test data from the first and second trial periods, the permittee shall provide written notification to the Bureau of Air Regulation and the Compliance Authority of plans for a third trial period. The written notification shall include a preliminary schedule for beginning and completing the third trial period, the purpose of the additional trial period and the estimated amount of wood pellets that will be fired. Once the written notification has been received by the Compliance Authority, a third trial period is authorized. Once commercial wood pellets have been fired in the power boiler for the third trial period, the permittee shall have 90 calendar days to complete the trial burn. The permittee shall continue to collect the operational and emissions data required by this permit.

In accordance with the provisions of Condition 2 in this subsection, the permittee is authorized to fire up to the maximum allowable amount of wood pellets during the authorized trial periods. {Permitting Note: Since 250 tons of wood pellets were fired during the first trial period, 1750 tons of wood pellets could be fired in

## SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

### A. CPL Power Boiler

the second trial period. With proper notification, an additional 2000 tons of wood pellets could also be fired during the second trial period. If a total of 3750 tons of wood pellets were fired during the second trial period, the third trial period would not be available.}

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

### CONTINUOUS MONITORING REQUIREMENTS

4. **CEMS:** The permittee shall use the following existing CEMS to collect emissions data.
  - a. The NO<sub>x</sub> CEMS at the power duct shall be used to determine baseline NO<sub>x</sub> emissions generated while firing only coal as well as NO<sub>x</sub> emissions from co-firing commercial wood pellets with coal during the trial burn.
  - b. The SO<sub>2</sub> CEMS at the stack shall be used to determine baseline SO<sub>2</sub> emissions generated while firing only coal as well as SO<sub>2</sub> emissions from co-firing commercial wood pellets with coal during the trial burn.
  - c. The CO process monitor may be used to determine baseline CO emissions generated while firing only coal as well as CO emissions from co-firing commercial wood pellets with coal during the trial burn.

[Application No. 0530021-023-AC and Rule 62-4.070(3), F.A.C.]
5. **COMS:** The permittee shall use existing COMS to determine baseline opacity while firing only coal as well as the opacity while co-firing commercial wood pellets with coal during the trial burn. Since the power boiler and collocated cement kiln share a common stack, it is important that the opacity data collected represent similar operating conditions for the cement kiln (on or off) for purposes of comparison.  
[Application No. 0530021-023-AC and Rule 62-4.070(3), F.A.C.]
6. **Data Collection:** The power boiler and collocated cement kiln share a common stack. For purposes of comparing emissions, the permittee shall collect emissions data under similar operating conditions. For example, if the cement kiln was off during the collection of baseline emissions, the trial burn shall be conducted while the cement kiln is off.
7. **Parametric Data:** During the trial burn, the permittee shall continuously monitor and record the following data: fuel firing rates of each fuel (tons/hour), heat input rates from firing each fuel (MMBtu/hour), power generation (MW), steam generating rates (lb/hour), total flue gas flow rate, flue gas oxygen content and the temperature at the baghouse inlet. The permittee shall also record when the cement kiln was in operation.  
[Application No. 0530021-023-AC and Rule 62-4.070(3), F.A.C.]

### TESTING REQUIREMENTS

8. **Carbon Monoxide (CO) Tests:** The permittee may use data collected from the CO process monitor to determine baseline CO emissions generated while firing only coal as well as CO emissions from co-firing commercial wood pellets with coal during the trial burn. Otherwise, in accordance with EPA Method 10, the permittee shall conduct the following tests on the power boiler.
  - a. The permittee shall determine baseline CO emissions by collecting at least 120 minutes of CO emissions data when firing only coal at permitted capacity.
  - b. The permittee shall determine CO emissions at permitted capacity when co-firing commercial wood chips with coal at three incremental firing rates based on the heat input rates of the fuels (e.g., 10% wood pellets, 20% wood pellets and 30% wood pellets). At each incremental fuel blend, the permittee shall collect at least 120 minutes of CO emissions data.



## SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

### A. CPL Power Boiler

- c. If CO emissions are tested at the stack instead of the power duct, it is important that the emissions data collected represent similar operating conditions for the cement kiln (on or off) for purposes of comparison.

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

9. **Particulate Matter (PM) Tests:** In accordance with EPA Method 5 or 17, the permittee shall conduct the following tests on the power boiler.
  - a. The permittee may use data collected from previous PM compliance tests that were conducted when firing only coal at permitted capacity. If existing test data is used, the permittee shall average the test results for each test meeting these requirements conducted over the last five operating years when firing coal at permitted capacity. Alternatively, the permittee may determine baseline PM emissions by conducting at least three 1-hour test runs when firing only coal at permitted capacity.
  - b. The permittee shall determine PM emissions when co-firing commercial wood chips with coal by conducting at least three 1-hour test runs when firing the highest blend of commercial wood chips with coal at permitted capacity.
  - c. Since the collocated cement plant shares the power plant boiler stack, PM emissions may be attributed to the power plant boiler in accordance with the protocol in the current Title V permit.

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

10. **Other Test Methods:** EPA Methods 1 – 4 shall be used as necessary to support the other test methods.

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

11. **Test Requirements:** The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required emissions stack tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit and the current Title V air operation permit. When in conflict, the permittee shall follow the requirements of the current Title V air operation permit. [Rule 62-297.310(7)(a)9, F.A.C.]

### RECORDS AND REPORTS

12. **Stack Test Reports:** The permittee shall prepare and submit reports for all required stack tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also indicate: the fuel firing rates of each fuel (tons/hour), heat input rates from firing each fuel (MMBtu/hour), the percent of wood pellets fired, power generation (MW), steam generating rate (lb/hour), total flue gas flow rate, flue gas oxygen content, the temperature at the baghouse inlet and whether the cement kiln was in operation. [Rule 62-297.310(8), F.A.C.]
13. **Trial Burn Report:** For each trial period, the permittee shall submit a report summarizing the following: fuel firing rates of each fuel (tons/hour); heat input rates from firing each fuel (MMBtu/hour); power generated (MW); steam generating rates (lb/hour); total flue gas flow rate; flue gas oxygen content; the temperature at the baghouse inlet; whether or not the cement plant was operating; problems with receiving, storing, handling and firing the commercial wood pellets; overall operational feasibility of commercial wood pellets as an alternative fuel; performance of the fuel feed system as well as the performance of the bottom ash and fly ash removal systems; the results of the ultimate, proximate and heat content analyses; and a comparison of emissions between firing only coal with co-firing commercial wood pellets with coal. A Trial Burn Report shall be submitted within 90 days of completing each trial period. [Rule 62-4.070(3), F.A.C.]

**SECTION 4. APPENDICES**

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**Contents**

- Appendix A. Citation Formats and Glossary of Common Terms
- Appendix B. General Conditions
- Appendix C. Common Conditions
- Appendix D. Common Testing Requirements

**SECTION 4. APPENDIX A**  
**Citation Formats and Glossary of Common Terms**

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**CITATION FORMATS**

The following illustrate the formats used in the permit to identify applicable requirements from permits and regulations.

**Old Permit Numbers**

Example: Permit No. AC50-123456 or Permit No. AO50-123456

Where: “AC” identifies the permit as an Air Construction Permit  
“AO” identifies the permit as an Air Operation Permit  
“123456” identifies the specific permit project number

**New Permit Numbers**

Example: Permit Nos. 099-2222-001-AC, 099-2222-001-AF, 099-2222-001-AO, or 099-2222-001-AV

Where: “099” represents the specific county ID number in which the project is located  
“2222” represents the specific facility ID number for that county  
“001” identifies the specific permit project number  
“AC” identifies the permit as an air construction permit  
“AF” identifies the permit as a minor source federally enforceable state operation permit  
“AO” identifies the permit as a minor source air operation permit  
“AV” identifies the permit as a major Title V air operation permit

**PSD Permit Numbers**

Example: Permit No. PSD-FL-317

Where: “PSD” means issued pursuant to the preconstruction review requirements of the Prevention of Significant Deterioration of Air Quality  
“FL” means that the permit was issued by the State of Florida  
“317” identifies the specific permit project number

**Florida Administrative Code (F.A.C.)**

Example: [Rule 62-213.205, F.A.C.]

Means: Title 62, Chapter 213, Rule 205 of the Florida Administrative Code

**Code of Federal Regulations (CFR)**

Example: [40 CRF 60.7]

Means: Title 40, Part 60, Section 7

**GLOSSARY OF COMMON TERMS**

° F: degrees Fahrenheit

µg: microgram

AAQS: Ambient Air Quality Standard

acf: actual cubic feet

acfm: actual cubic feet per minute

ARMS: Air Resource Management System  
(Department’s database)

**BACT:** best available control technology

**bhp:** brake horsepower

**Btu:** British thermal units

**CAM:** compliance assurance monitoring

**CEMS:** continuous emissions monitoring system

**cfm:** cubic feet per minute

**CFR:** Code of Federal Regulations

## SECTION 4. APPENDIX A

### Citation Formats and Glossary of Common Terms

|   |  |
|---|--|
| <b>CAA:</b> Clean Air Act   | <b>NESHAP:</b> National Emissions Standards for Hazardous Air Pollutants                                       |
| <b>CMS:</b> continuous monitoring system  | <b>NO<sub>x</sub>:</b> nitrogen oxides   |
| <b>CO:</b> carbon monoxide  | <b>NSPS:</b> New Source Performance Standards  |
| <b>CO<sub>2</sub>:</b> carbon dioxide   | <b>O&amp;M:</b> operation and maintenance  |
| <b>COMS:</b> continuous opacity monitoring system                                       | <b>O<sub>2</sub>:</b> oxygen   |
| <b>DARM:</b> Division of Air Resource Management  | <b>Pb:</b> lead  |
| <b>DEP:</b> Department of Environmental Protection                                      | <b>PM:</b> particulate matter  |
| <b>Department:</b> Department of Environmental Protection                               | <b>PM<sub>10</sub>:</b> particulate matter with a mean aerodynamic diameter of 10 microns or less              |
| <b>dscf:</b> dry standard cubic feet  | <b>ppm:</b> parts per million  |
| <b>dscfm:</b> dry standard cubic feet per minute  | <b>ppmv:</b> parts per million by volume   |
| <b>EPA:</b> Environmental Protection Agency   | <b>ppmvd:</b> parts per million by volume, dry basis   |
| <b>ESP:</b> electrostatic precipitator (control system for reducing particulate matter) | <b>QA:</b> quality assurance   |
| <b>EU:</b> emissions unit   | <b>QC:</b> quality control   |
| <b>F:</b> fluoride  | <b>PSD:</b> prevention of significant deterioration  |
| <b>F.A.C.:</b> Florida Administrative Code  | <b>psi:</b> pounds per square inch   |
| <b>F.A.W.:</b> Florida Administrative Weekly  | <b>PTE:</b> potential to emit  |
| <b>F.D.:</b> forced draft   | <b>RACT:</b> reasonably available control technology   |
| <b>F.S.:</b> Florida Statutes   | <b>RATA:</b> relative accuracy test audit  |
| <b>FGD:</b> flue gas desulfurization  | <b>RBLC:</b> EPA's RACT/BACT/LAER Clearinghouse  |
| <b>FGR:</b> flue gas recirculation  | <b>SAM:</b> sulfuric acid mist   |
| <b>ft<sup>2</sup>:</b> square feet  | <b>scf:</b> standard cubic feet  |
| <b>ft<sup>3</sup>:</b> cubic feet   | <b>scfm:</b> standard cubic feet per minute  |
| <b>gpm:</b> gallons per minute  | <b>SIC:</b> standard industrial classification code  |
| <b>gr:</b> grains   | <b>SIP:</b> State Implementation Plan  |
| <b>HAP:</b> hazardous air pollutant   | <b>SNCR:</b> selective non-catalytic reduction (control system used for reducing emissions of nitrogen oxides) |
| <b>Hg:</b> mercury  | <b>SO<sub>2</sub>:</b> sulfur dioxide  |
| <b>I.D.:</b> induced draft  | <b>TPD:</b> tons/day   |
| <b>ID:</b> identification   | <b>TPH:</b> tons per hour  |
| <b>kPa:</b> kilopascals   | <b>TPY:</b> tons per year  |
| <b>lb:</b> pound  | <b>TRS:</b> total reduced sulfur   |
| <b>MACT:</b> maximum achievable technology  | <b>UTM:</b> Universal Transverse Mercator coordinate system  |
| <b>MMBtu:</b> million British thermal units   | <b>VE:</b> visible emissions   |
| <b>MSDS:</b> material safety data sheets  | <b>VOC:</b> volatile organic compounds   |
| <b>MW:</b> megawatt   |  |

## SECTION 4. APPENDIX B

### General Conditions

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

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and 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 and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - a. Have access to and copy any records that must be kept under conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

**SECTION 4. APPENDIX B**

**General Conditions**

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. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - a. Determination of Best Available Control Technology (not applicable);
  - b. Determination of Prevention of Significant Deterioration (not applicable); and
  - c. Compliance with New Source Performance Standards (not applicable).
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for 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:
    - (a) The date, exact place, and time of sampling or measurements;
    - (b) The person responsible for performing the sampling or measurements;
    - (c) The dates analyses were performed;
    - (d) The person responsible for performing the analyses;
    - (e) The analytical techniques or methods used;
    - (f) The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

## SECTION 4. APPENDIX C

### Common Conditions

Unless otherwise specified in the permit, the following conditions apply to all emissions units and activities at the facility.

#### EMISSIONS AND CONTROLS

1. Plant Operation - Problems: If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]
2. Circumvention: The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
3. Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]
4. Excess Emissions - Notification: In case of excess emissions resulting from malfunctions, the permittee shall notify the Compliance Authority in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]
5. VOC or OS Emissions: No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) 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.]
6. 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(Definitions), F.A.C.]
7. 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% opacity. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]
8. 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.]

#### RECORDS AND REPORTS

9. 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 5 years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request. [Rule 62-213.440(1)(b)2, F.A.C.]
10. Emissions Computation and Reporting:
  - a. *Applicability*. This rule sets forth required methodologies to be used by the owner or operator of a facility for computing actual emissions, baseline actual emissions, and net emissions increase, as defined at Rule 62-210.200, F.A.C., and for computing emissions for purposes of the reporting requirements of subsection 62-210.370(3) and paragraph 62-212.300(1)(e), F.A.C., or of any permit condition that requires emissions be computed in accordance with this rule. This rule is not intended to establish methodologies for determining compliance with the emission limitations of any air permit. [Rule 62-210.370(1), F.A.C.]
  - b. *Computation of Emissions*. For any of the purposes set forth in subsection 62-210.370(1), F.A.C., the owner or operator of a facility shall compute emissions in accordance with the requirements set forth in this subsection.
    - (1) *Basic Approach*. The owner or operator shall employ, on a pollutant-specific basis, the most accurate of the approaches set forth below to compute the emissions of a pollutant from an emissions unit; provided, however,

## SECTION 4. APPENDIX C

### Common Conditions

that nothing in this rule shall be construed to require installation and operation of any continuous emissions monitoring system (CEMS), continuous parameter monitoring system (CPMS), or predictive emissions monitoring system (PEMS) not otherwise required by rule or permit, nor shall anything in this rule be construed to require performance of any stack testing not otherwise required by rule or permit.

- (a) If the emissions unit is equipped with a CEMS meeting the requirements of paragraph 62-210.370(2)(b), F.A.C., the owner or operator shall use such CEMS to compute the emissions of the pollutant, unless the owner or operator demonstrates to the department that an alternative approach is more accurate because the CEMS represents still-emerging technology.
  - (b) If a CEMS is not available or does not meet the requirements of paragraph 62-210.370(2)(b), F.A.C. but emissions of the pollutant can be computed pursuant to the mass balance methodology of paragraph 62-210.370(2)(c), F.A.C., the owner or operator shall use such methodology, unless the owner or operator demonstrates to the department that an alternative approach is more accurate.
  - (c) If a CEMS is not available or does not meet the requirements of paragraph 62-210.370(2)(b), F.A.C., and emissions cannot be computed pursuant to the mass balance methodology, the owner or operator shall use an emission factor meeting the requirements of paragraph 62-210.370(2)(d), F.A.C., unless the owner or operator demonstrates to the department that an alternative approach is more accurate.
- (2) Continuous Emissions Monitoring System (CEMS).
- (a) An owner or operator may use a CEMS to compute emissions of a pollutant for purposes of this rule provided:
    - 1) The CEMS complies with the applicable certification and quality assurance requirements of 40 CFR Part 60, Appendices B and F, or, for an acid rain unit, the certification and quality assurance requirements of 40 CFR Part 75, all adopted by reference at Rule 62-204.800, F.A.C.; or
    - 2) The owner or operator demonstrates that the CEMS otherwise represents the most accurate means of computing emissions for purposes of this rule.
  - (b) Stack gas volumetric flow rates used with the CEMS to compute emissions shall be obtained by the most accurate of the following methods as demonstrated by the owner or operator:
    - 1) A calibrated flow meter that records data on a continuous basis, if available; or
    - 2) The average flow rate of all valid stack tests conducted during a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
  - (c) The owner or operator may use CEMS data in combination with an appropriate f-factor, heat input data, and any other necessary parameters to compute emissions if such method is demonstrated by the owner or operator to be more accurate than using a stack gas volumetric flow rate as set forth at subparagraph 62-210.370(2)(b)2., F.A.C., above.
- (3) Mass Balance Calculations.
- (a) An owner or operator may use mass balance calculations to compute emissions of a pollutant for purposes of this rule provided the owner or operator:
    - 1) Demonstrates a means of validating the content of the pollutant that is contained in or created by all materials or fuels used in or at the emissions unit; and
    - 2) Assumes that the emissions unit emits all of the pollutant that is contained in or created by any material or fuel used in or at the emissions unit if it cannot otherwise be accounted for in the process or in the capture and destruction of the pollutant by the unit's air pollution control equipment.
  - (b) Where the vendor of a raw material or fuel which is used in or at the emissions unit publishes a range of pollutant content from such material or fuel, the owner or operator shall use the highest value of the range



**SECTION 4. APPENDIX C**

**Common Conditions**

to compute the emissions, unless the owner or operator demonstrates using site-specific data that another content within the range is more accurate.

- (c) In the case of an emissions unit using coatings or solvents, the owner or operator shall document, through purchase receipts, records and sales receipts, the beginning and ending VOC inventories, the amount of VOC purchased during the computational period, and the amount of VOC disposed of in the liquid phase during such period.
- (4) Emission Factors.
- a. An owner or operator may use an emission factor to compute emissions of a pollutant for purposes of this rule provided the emission factor is based on site-specific data such as stack test data, where available, unless the owner or operator demonstrates to the department that an alternative emission factor is more accurate. An owner or operator using site-specific data to derive an emission factor, or set of factors, shall meet the following requirements.
    - 1) If stack test data are used, the emission factor shall be based on the average emissions per unit of input, output, or gas volume, whichever is appropriate, of all valid stack tests conducted during at least a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
    - 2) Multiple emission factors shall be used as necessary to account for variations in emission rate associated with variations in the emissions unit's operating rate or operating conditions during the period over which emissions are computed.
    - 3) The owner or operator shall compute emissions by multiplying the appropriate emission factor by the appropriate input, output or gas volume value for the period over which the emissions are computed. The owner or operator shall not compute emissions by converting an emission factor to pounds per hour and then multiplying by hours of operation, unless the owner or operator demonstrates that such computation is the most accurate method available.
  - b. If site-specific data are not available to derive an emission factor, the owner or operator may use a published emission factor directly applicable to the process for which emissions are computed. If no directly-applicable emission factor is available, the owner or operator may use a factor based on a similar, but different, process.
- (5) Accounting for Emissions During Periods of Missing Data from CEMS, PEMS, or CPMS. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of missing data from CEMS, PEMS, or CPMS using other site-specific data to generate a reasonable estimate of such emissions.
- (6) Accounting for Emissions During Periods of Startup and Shutdown. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of startup and shutdown of the emissions unit.
- (7) Fugitive Emissions. In computing the emissions of a pollutant from a facility or emissions unit, the owner or operator shall account for the fugitive emissions of the pollutant, to the extent quantifiable, associated with such facility or emissions unit.
- (8) Recordkeeping. The owner or operator shall retain a copy of all records used to compute emissions pursuant to this rule for a period of five years from the date on which such emissions information is submitted to the department for any regulatory purpose.

[Rule 62-210.370(2), F.A.C.]

c. *Annual Operating Report for Air Pollutant Emitting Facility*

- (1) The Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) shall be completed each year for the following facilities:
  - a. All Title V sources.

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**Common Conditions**

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- b. All synthetic non-Title V sources.
  - c. All facilities with the potential to emit ten (10) tons per year or more of volatile organic compounds or twenty-five (25) tons per year or more of nitrogen oxides and located in an ozone nonattainment area or ozone air quality maintenance area.
  - d. All facilities for which an annual operating report is required by rule or permit.
- (2) Notwithstanding paragraph 62-210.370(3)(a), F.A.C., no annual operating report shall be required for any facility operating under an air general permit.
  - (3) The annual operating report shall be submitted to the appropriate Department of Environmental Protection (DEP) division, district or DEP-approved local air pollution control program office by April 1 of the following year. If the report is submitted using the Department's electronic annual operating report software, there is no requirement to submit a copy to any DEP or local air program office.
  - (4) Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C., for purposes of the annual operating report.
  - (5) Facility Relocation. Unless otherwise provided by rule or more stringent permit condition, the owner or operator of a relocatable facility must submit a Facility Relocation Notification Form (DEP Form No. 62-210.900(6)) to the Department at least 30 days prior to the relocation. A separate form shall be submitted for each facility in the case of the relocation of multiple facilities which are jointly owned or operated.

[Rule 62-210.370(3), F.A.C.]

**SECTION 4. APPENDIX D**  
**Common Testing Requirements**

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Unless otherwise specified in the permit, the following testing requirements apply to all emissions units that require testing.

**COMPLIANCE TESTING REQUIREMENTS**

1. 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.]
2. Operating Rate During Testing: Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. 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. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. [Rule 62-297.310(2), F.A.C.]
3. 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.]
4. Applicable Test Procedures:
  - a. Required Sampling Time.
    - (1) 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.
    - (2) Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:
      - (a) For batch, cyclical processes, or other operations which are normally completed within less than the minimum observation period and do not recur within that time, the period of observation shall be equal to the duration of the batch cycle or operation completion time.
      - (b) The observation period for special opacity tests that are conducted to provide data to establish a surrogate standard pursuant to Rule 62-297.310(5)(k), F.A.C., Waiver of Compliance Test Requirements, shall be established as necessary to properly establish the relationship between a proposed surrogate standard and an existing mass emission limiting standard.
      - (c) The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.
  - 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.

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**Common Testing Requirements**

- 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.
- d. Calibration of Sampling Equipment. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1.
- e. Allowed Modification to EPA Method 5. When EPA Method 5 is required, the following modification is allowed: the heated filter may be separated from the impingers by a flexible tube.

| TABLE 297.310-1 CALIBRATION SCHEDULE |   |   |   |
|--------------------------------------|---|---|---|
| ITEM                                 | MINIMUM CALIBRATION FREQUENCY                                   | REFERENCE INSTRUMENT  | TOLERANCE   |
| Liquid in glass thermometer          | Annually  | ASTM Hg in glass ref. thermometer or equivalent or thermometric points                    | +/-2%   |
| Bimetallic thermometer               | Quarterly   | Calibration liquid in glass   | 5° F  |
| Thermocouple                         | Annually  | ASTM Hg in glass ref. thermometer, NBS calibrated reference and potentiometer             | 5° F  |
| Barometer                            | Monthly   | Hg barometer or NOAA station  | +/-1% scale   |
| Pitot Tube                           | When required or when damaged                                   | By construction or measurements in wind tunnel D greater than 16" and standard pitot tube | See EPA Method 2, Fig. 2-2 & 2-3  |
| Probe Nozzles                        | Before each test or when nicked, dented, or corroded            | Micrometer  | +/- 0.001" mean of at least three readings; Max. deviation between readings, 0.004" |
| Dry Gas Meter and Orifice Meter      | 1. Full Scale: When received, when 5% change observed, annually | Spirometer or calibrated wet test or dry gas test meter                                   | 2%  |
|                                      | 2. One Point: Semiannually                                      |   |   |
|                                      | 3. Check after each test series                                 | Comparison check  | 5%  |

[Rule 62-297.310(4), F.A.C.]

5. 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.]

**SECTION 4. APPENDIX D**  
**Common Testing Requirements**

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6. **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. Sampling facilities include sampling ports, work platforms, access to work platforms, electrical power, and sampling equipment support. All stack sampling facilities must also comply with all applicable Occupational Safety and Health Administration (OSHA) Safety and Health Standards described in 29 CFR Part 1910, Subparts D and E.
- a. **Permanent Test Facilities.** The owner or operator of an emissions unit for which a compliance test, other than a visible emissions test, is required on at least an annual basis, shall install and maintain permanent stack sampling facilities.
  - b. **Temporary Test Facilities.** The owner or operator of an emissions unit that is not required to conduct a compliance test on at least an annual basis may use permanent or temporary stack sampling facilities. If the owner chooses to use temporary sampling facilities on an emissions unit, and the Department elects to test the unit, such temporary facilities shall be installed on the emissions unit within 5 days of a request by the Department and remain on the emissions unit until the test is completed.
  - c. **Sampling Ports.**
    - (1) All sampling ports shall have a minimum inside diameter of 3 inches.
    - (2) The ports shall be capable of being sealed when not in use.
    - (3) The sampling ports shall be located in the stack at least 2 stack diameters or equivalent diameters downstream and at least 0.5 stack diameter or equivalent diameter upstream from any fan, bend, constriction or other flow disturbance.
    - (4) For emissions units for which a complete application to construct has been filed prior to December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 15 feet or less. For stacks with a larger diameter, four sampling ports, each 90 degrees apart, shall be installed. For emissions units for which a complete application to construct is filed on or after December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 10 feet or less. For stacks with larger diameters, four sampling ports, each 90 degrees apart, shall be installed. On horizontal circular ducts, the ports shall be located so that the probe can enter the stack vertically, horizontally or at a 45 degree angle.
    - (5) On rectangular ducts, the cross sectional area shall be divided into the number of equal areas in accordance with EPA Method 1. Sampling ports shall be provided which allow access to each sampling point. The ports shall be located so that the probe can be inserted perpendicular to the gas flow.
  - d. **Work Platforms.**
    - (1) Minimum size of the working platform shall be 24 square feet in area. Platforms shall be at least 3 feet wide.
    - (2) On circular stacks with 2 sampling ports, the platform shall extend at least 110 degrees around the stack.
    - (3) On circular stacks with more than two sampling ports, the work platform shall extend 360 degrees around the stack.
    - (4) All platforms shall be equipped with an adequate safety rail (ropes are not acceptable), toe board, and hinged floor-opening cover if ladder access is used to reach the platform. The safety rail directly in line with the sampling ports shall be removable so that no obstruction exists in an area 14 inches below each sample port and 6 inches on either side of the sampling port.
  - e. **Access to Work Platform.**
    - (1) Ladders to the work platform exceeding 15 feet in length shall have safety cages or fall arresters with a minimum of 3 compatible safety belts available for use by sampling personnel.
    - (2) Walkways over free-fall areas shall be equipped with safety rails and toe boards.
  - f. **Electrical Power.**

**SECTION 4. APPENDIX D**  
**Common Testing Requirements**

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- (1) A minimum of two 120-volt AC, 20-amp outlets shall be provided at the sampling platform within 20 feet of each sampling port.
- (2) If extension cords are used to provide the electrical power, they shall be kept on the plant's property and be available immediately upon request by sampling personnel.

g. Sampling Equipment Support.

- (1) A three-quarter inch eyebolt and an angle bracket shall be attached directly above each port on vertical stacks and above each row of sampling ports on the sides of horizontal ducts.
  - (a) The bracket shall be a standard 3 inch × 3 inch × one-quarter inch equal-legs bracket which is 1 and one-half inches wide. A hole that is one-half inch in diameter shall be drilled through the exact center of the horizontal portion of the bracket. The horizontal portion of the bracket shall be located 14 inches above the centerline of the sampling port.
  - (b) A three-eighth inch bolt which protrudes 2 inches from the stack may be substituted for the required bracket. The bolt shall be located 15 and one-half inches above the centerline of the sampling port.
  - (c) The three-quarter inch eyebolt shall be capable of supporting a 500 pound working load. For stacks that are less than 12 feet in diameter, the eyebolt shall be located 48 inches above the horizontal portion of the angle bracket. For stacks that are greater than or equal to 12 feet in diameter, the eyebolt shall be located 60 inches above the horizontal portion of the angle bracket. If the eyebolt is more than 120 inches above the platform, a length of chain shall be attached to it to bring the free end of the chain to within safe reach from the platform.
- (2) A complete monorail or dual rail arrangement may be substituted for the eyebolt and bracket.
- (3) When the sample ports are located in the top of a horizontal duct, a frame shall be provided above the port to allow the sample probe to be secured during the test.

[Rule 62-297.310(6), F.A.C.]

7. Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

a. General Compliance Testing.

1. The owner or operator of a new or modified emissions unit that is subject to an emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining an operation permit for such emissions unit.
2. For excess emission limitations for particulate matter specified in Rule 62-210.700, F.A.C., a compliance test shall be conducted annually while the emissions unit is operating under soot blowing conditions in each federal fiscal year during which soot blowing is part of normal emissions unit operation, except that such test shall not be required in any federal fiscal year in which a fossil fuel steam generator does not burn liquid and/or solid fuel for more than 400 hours other than during startup.
3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to sub-subparagraph 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:
  - (a) Did not operate; or
  - (b) In the case of a fuel burning emissions unit, burned liquid and/or solid fuel for a total of no more than 400 hours,
4. During each federal fiscal year (October 1 – September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

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**Common Testing Requirements**

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- (a) Visible emissions, if there is an applicable standard;
  - (b) Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and
  - (c) c. Each NESHAP pollutant, if there is an applicable emission standard.
5. An annual compliance test for particulate matter emissions shall not be required for any fuel burning emissions unit that, in a federal fiscal year, does not burn liquid and/or solid fuel, other than during startup, for a total of more than 400 hours.
  6. For fossil fuel steam generators on a semi-annual particulate matter emission compliance testing schedule, a compliance test shall not be required for any six-month period in which liquid and/or solid fuel is not burned for more than 200 hours other than during startup.
  7. For emissions units electing to conduct particulate matter emission compliance testing quarterly pursuant to paragraph 62-296.405(2)(a), F.A.C., a compliance test shall not be required for any quarter in which liquid and/or solid fuel is not burned for more than 100 hours other than during startup.
  8. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.
  9. 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.
  10. An annual compliance test conducted for visible emissions shall not be required for units exempted from air permitting pursuant to subsection 62-210.300(3), F.A.C.; units determined to be insignificant pursuant to subparagraph 62-213.300(2)(a)1., F.A.C., or paragraph 62-213.430(6)(b), F.A.C.; or units permitted under the General Permit provisions in paragraph 62-210.300(4)(a) or Rule 62-213.300, F.A.C., unless the general permit specifically requires such testing.
    - (a) 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.
    - (b) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of paragraph 62-297.310(7)(b), F.A.C., shall apply.

[Rule 62-297.310(7), F.A.C.]

**REPORTS**

8. Test Reports:
  - a. 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.
  - b. 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.

**SECTION 4. APPENDIX D**  
**Common Testing Requirements**

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- c. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information.
- (1) The type, location, and designation of the emissions unit tested.
  - (2) The facility at which the emissions unit is located.
  - (3) The owner or operator of the emissions unit.
  - (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.]

**MISCELLANEOUS**

9. Stack and Duct: The terms stack and duct are used interchangeably in this rule. [Rule 62-297.310(9), F.A.C.]



## Livingston, Sylvania

---

**From:** Livingston, Sylvania  
**Sent:** Thursday, May 20, 2010 9:25 AM  
**To:** 'wwoodard@deltapowerservices.com'  
**Cc:** 'lroberts@deltapowerservices.com'; 'mlee@kooglerassociates.com'; Nasca, Mara; Halpin, Mike; 'forney.kathleen@epa.gov'; 'abrams.heather@epa.gov'; 'oquendo.ana@epa.gov'; Gibson, Victoria; Koerner, Jeff; Walker, Elizabeth (AIR)  
**Subject:** Central Power & Lime - Brooksville S. Cement & Power Plant; 0530021-027-AC  
**Attachments:** 0530021-027-AC\_Signatures.pdf

Dear Sir/ Madam:

Attached is the official **Notice of Final Permit** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

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Owner/Company Name: CEMEX CNSTRCTION MATERIALS FLORIDA, LLC  
Facility Name: CEMEX BROOKSVILLE S. CEMENT and POWER PLANT  
Project Number: 0530021-027-AC  
Permit Status: FINAL  
Permit Activity: CONSTRUCTION  
Facility County: HERNANDO  
Processor: Jeff Koerner

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Project documents that are addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation at (850)488-0114.

Sylvia Livingston  
Bureau of Air Regulation  
Division of Air Resource Management (DARM)  
Department of Environmental Protection  
850/921-9506  
[sylvia.livingston@dep.state.fl.us](mailto:sylvia.livingston@dep.state.fl.us)

## Livingston, Sylvia

---

**From:** Woodard, Willis T [WWoodard@deltapowerservices.com]  
**Sent:** Tuesday, June 01, 2010 8:43 AM  
**To:** Livingston, Sylvia  
**Subject:** RE: Central Power & Lime - Brooksville S. Cement & Power Plant; 0530021-027-AC

Yes, I can access documents. Thanks

---

**From:** Livingston, Sylvia [mailto:Sylvia.Livingston@dep.state.fl.us]  
**Sent:** Friday, May 28, 2010 9:47 AM  
**To:** Woodard, Willis T  
**Subject:** FW: Central Power & Lime - Brooksville S. Cement & Power Plant; 0530021-027-AC

Dear Terry Woodard:

We have not received confirmation that you were able to access the documents attached to this May 20th e-mail. Please confirm receipt by opening the attachment and sending a reply to me.

The Division of Air Resource Management is sending electronic versions of these documents rather than sending them Return Receipt Requested via the US Postal service. Your "receipt confirmation" reply serves the same purpose as tracking the receipt of the signed "Return Receipt" card from the US Postal Service. Please let me know if you have any questions.

Sylvia Livingston  
Bureau of Air Regulation  
Division of Air Resource Management (DARM)  
850/921-9506  
[sylvia.livingston@dep.state.fl.us](mailto:sylvia.livingston@dep.state.fl.us)

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*

**From:** Livingston, Sylvia  
**Sent:** Thursday, May 20, 2010 9:25 AM  
**To:** 'wwoodard@deltapowerservices.com'  
**Cc:** 'lroberts@deltapowerservices.com'; 'mlee@kooglerassociates.com'; Nasca, Mara; Halpin, Mike; 'forney.kathleen@epa.gov'; 'abrams.heather@epa.gov'; 'oquendo.ana@epa.gov'; Gibson, Victoria; Koerner, Jeff; Walker, Elizabeth (AIR)  
**Subject:** Central Power & Lime - Brooksville S. Cement & Power Plant; 0530021-027-AC

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Sylvia Livingston  
Bureau of Air Regulation  
Division of Air Resource Management (DARM)  
Department of Environmental Protection  
850/921-9506  
[sylvia.livingston@dep.state.fl.us](mailto:sylvia.livingston@dep.state.fl.us)

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## Livingston, Sylvia

---

**From:** Roberts, Larry [LRoberts@deltapowerservices.com]  
**Sent:** Thursday, May 20, 2010 9:42 AM  
**To:** Livingston, Sylvia  
**Subject:** RE: Central Power & Lime - Brooksville S. Cement & Power Plant; 0530021-027-AC

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**From:** Livingston, Sylvia [mailto:Sylvia.Livingston@dep.state.fl.us]  
**Sent:** Thursday, May 20, 2010 9:25 AM  
**To:** Woodard, Willis T  
**Cc:** Roberts, Larry; mlee@kooglerassociates.com; Nasca, Mara; Halpin, Mike; forney.kathleen@epa.gov; abrams.heather@epa.gov; oquendo.ana@epa.gov; Gibson, Victoria; Koerner, Jeff; Walker, Elizabeth (AIR)  
**Subject:** Central Power & Lime - Brooksville S. Cement & Power Plant; 0530021-027-AC

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Owner/Company Name: CEMEX CNSTRCTION MATERIALS FLORIDA, LLC  
Facility Name: CEMEX BROOKSVILLE S. CEMENT and POWER PLANT  
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Sylvia Livingston  
Bureau of Air Regulation

## Livingston, Sylvia

---

**From:** Nasca, Mara  
**Sent:** Thursday, May 20, 2010 10:07 AM  
**To:** Livingston, Sylvia  
**Cc:** Prickett, Patricia  
**Subject:** RE: Central Power & Lime - Brooksville S. Cement & Power Plant; 0530021-027-AC

Thank you Sylvia

---

**From:** Livingston, Sylvia  
**Sent:** Thursday, May 20, 2010 9:25 AM  
**To:** wwoodard@deltapowerservices.com  
**Cc:** lroberts@deltapowerservices.com; mlee@kooglerassociates.com; Nasca, Mara; Halpin, Mike; forney.kathleen@epa.gov; abrams.heather@epa.gov; oquendo.ana@epa.gov; Gibson, Victoria; Koerner, Jeff; Walker, Elizabeth (AIR)  
**Subject:** Central Power & Lime - Brooksville S. Cement & Power Plant; 0530021-027-AC

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