



Department of Environmental Protection

Jeb Bush
Governor

Northeast District
7825 Baymeadows Way, Suite B-200
Jacksonville, Florida 32256-7590

Colleen Castille
Secretary

PERMITTEE:

Georgia-Pacific Corporation
Post Office Box 919
Palatka, Florida 32178-0919

I.D. Number: 1070005
Permit/Cert Number: 1070005-036-AC
Date of Issue:
Expiration Date:
County: Putnam
Latitude/Longitude: 29°40'50" N; 81°40'56" W
UTM: E-(17) 434.0; N-3283.4
Project: No. 5 Power Boiler, EU # 015

Draft

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-210, 62-212, 62-296, 62-297 and 62-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

PROJECT

For the addition of a third field to the existing two-field electrostatic precipitator (ESP) at the No. 5 Power Boiler. The ESP is designed to control the emissions of particulate matter from the boiler.

FACILITY DESCRIPTION

This facility is a Kraft pulp and paper mill that consists of major activities areas such as: chip handling, pulping, bleaching, chemical recovery, utilities, paper machines, converting, turpentine and tall oil production.

The No. 5 Power Boiler has a maximum steam production capacity of 475,000 pounds per hour based on steam conditions of 900° F at 1275 psi. The primary fuel is No. 6 fuel oil. Particulate Matter emissions are presently controlled by a single chamber, 2 field, Research Cottrell electrostatic precipitator. Exhaust gases exit at approximately 445° F from a 9' diameter stack that is 232' tall.

REGULATORY CLASSIFICATION

The No. 5 Power Boiler is regulated under Rule 62-296.404, F.A.C. – Kraft Pulp Mills; Rule 62-296.405, F.A.C., Fossil Fuel Steam Generators with More than 250 Million Btu per hour Heat Input; Rule 62-210.700; and, 40 CFR 63, Subpart S – Phase II as the boiler is utilized as the control device for TRS and HAP emissions from the Brown Stock Washer System and the Oxygen Delignification System.

OPERATING LOCATION

Located: North of County Road 216, West of U.S. Highway 17, Palatka, Putnam County, Florida.

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RELEVANT DOCUMENTS

The documents listed below are the basis of the permit. They are specifically related to this permitting action. These documents are on file with the Department:

Application for Air Permit – Long Form received April 12, 2006
Additional Information Received July 3, 2006
Additional Information/Comments Received August 4, 2006

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GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 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 the 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 of 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 permitted 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 a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any record 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.

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GENERAL CONDITIONS:

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 non-compliance, 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 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:

- ☐ Determination of Best Available Control Technology (BACT)
- ☐ Determination of Prevention of Significant Deterioration (PSD)
- ☐ Compliance with New Source Performance Standards (NSPS)
- ☐ Compliance with National Emission Standards for Hazardous Air Pollutants/ Maximum Available Control Technology (MACT)

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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:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurement;
 - the dates analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - 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.

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Subsection A. This section addresses the following emissions unit.

The following specific conditions apply to the emissions unit(s) listed below:

E.U. ID

No.

Brief Description

015

#5 Power Boiler with an electrostatic precipitator to control particulate matter emissions.

- A.0. This permit authorizes the modification of the existing single chamber, two field, Research Cottrell electrostatic precipitator by the addition of a third field. The new third field (TR-12) shall be the first field in the chamber and of the same design as the two existing fields (TR's 22 and 32).

Each field's internals includes 21 collecting plates, a collecting surface length of 22.4 ft, a collecting area of 18,386 sq-ft, and 120 discharge electrodes.

The electrostatic precipitator has an inlet flow of 231,500 acfm*, 445° F, and an inlet loading of 0.04 grains per dry standard cubic foot of air flow**.

The modification does not authorize changes to the existing ductwork, fans, or the inlet flow rate to the ESP.

** The design of the ESP is a nominal inlet flow rate of 455,000 acfm, however, the flow rate from the No. 5 Power Boiler as stated in the application received February 28, 1985 is 231,500 acfm.*

*** The design inlet loading as stated in the 7/3/06 Response.*

Operational Parameters

- A.1. ESP Operation. The No. 5 Power Boiler ESP (Research Cottrell) shall only be used as the Particulate Matter control device for the No. 5 Power Boiler. This construction permit does not authorize the utilization of this ESP as a "polishing unit" or as additional Particulate Matter control for the No. 4 Combination Boiler¹.

¹ The utilization of this ESP in this manner may require PSD Review or a modification/revision to the pending BACT analysis and Determination for the No. 4 Combination Boiler project being processed by DARM.

[Rule 62-4.070, F.A.C.]

- A.2. Permitted Capacity. The maximum heat input rate is 568.9 MMBtu/hr.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Construction Permit No. 1070005-028-AC]

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A.3.a. Methods of Operation. This boiler may be fired with:

- No. 6 fuel oil with a sulfur content that shall not exceed 2.35%, by weight, and on-spec used oil.
- Natural gas as a startup fuel.
- Dilute non-condensable gases (DNCGs) during periods when the boiler is being utilized for their destruction.

[Rule 62-213.410, F.A.C.; Construction Permit No. 1070005-017-AC; Construction Permit No. 1070005-024-AC; Construction Permit No. 1070005-025-AC; PCP Exclusion dated March 14, 2002]

A.3.b. Methods of Operation. Except for infrequent periods of maintenance, all fields of the ESP shall be functioning when the No. 5 Power Boiler is in operation¹. Operation of the ESP shall meet the operating requirements of the established CAM plan.

¹ The Permittee is authorized to operate two fields for the purposes of the compliance testing of the operational scenario required in Condition A.8.a.

[Rule 62-4.070, F.A.C.]

A.4. Hours of Operation. The hours of operation are not limited.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Emission Limits and Standards

{Permitting Note: Unless otherwise specified, the averaging times for these conditions are based on the specified averaging time of the applicable test method.}

A.5.a. Particulate Matter Emissions- Steady State. The Permittee shall operate and maintain an electrostatic precipitator (ESP) to control particulate matter emissions. Particulate Matter Emissions shall not exceed 0.1lb/MMBTU heat input. [Equivalent emissions are: 56.89 lbs/hr and 218.0 TPY].

[Rule 62-296.405(1)(b), F.A.C.; Construction Permit No. 1070005-024-AC]

A.5.b. Particulate Matter Emissions- Soot Blowing & Load Change. The Permittee shall operate and maintain an electrostatic precipitator (ESP) to control particulate matter emissions. Particulate Matter emissions shall not exceed an average of 0.3 lb/MMBTU heat input (Equivalent Emissions are: 170.67 lbs/hr and 93.4 TPY), while soot blowing or during a load change. These excess emissions resulting from operation in either of these two modes shall not exceed 3 hours in any 24-hour period. Best operational practices to minimize emissions shall be adhered to and the duration of excess emissions shall be minimized.

A load change occurs when the operational capacity of a unit is in the 10 percent to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more.

[Rule 62-210.700(3), F.A.C.; Construction Permit No. 1070005-024-AC;]

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- A.6.a. Visible Emissions- Steady State. Visible emissions shall not exceed 20% opacity except for up to 40% for 2 minutes/hr.

[Rule 62-296.405(1)(a), F.A.C.]

- A.6.b. Visible Emissions - Soot Blowing & Load Change. Visible emissions shall not exceed 60% opacity while soot blowing or during a load change. These excess emissions resulting from operation in either of these two modes shall not exceed 3 hours in any 24-hour period. Best operational practices to minimize emissions shall be adhered to and the duration of excess emissions shall be minimized.

A load change occurs when the operational capacity of a unit is in the 10 percent to 100 percent capacity range other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more.

[Rule 62-210.700(3), F.A.C.]

- A.7.a. Sulfur Dioxide Emissions. Sulfur Dioxide emissions shall be limited to a maximum sulfur content of 2.35 %, by weight, in the fuel oil, 1544.3 lbs/hr and 6638.5 TPY.¹

¹ Includes SO₂ emissions due to dilute NCG (DNCG) burning of 82.6 lbs/hr and 236.3 TPY.²

² The yearly allowable limitation of 236.3 TPY is applicable to either the No. 5 Power Boiler or the No. 4 Combination Boiler, or the No. 5 Power Boiler and the No. 4 Combination Boiler combined for a total of 236.3 TPY.

[Rule 62-296.405(1)(c)1.j., F.A.C. subsumed; Construction Permit No. 107005-017-AC; Construction Permit No. 1070005-024-AC; Construction Permit No. 1070005-025-AC; PCP Exclusion dated April 23, 2004]

- A.7.b. Sulfur Dioxide Emissions – DNCG. The burning of DNCGs shall cease when the sum of the SO₂ emissions reaches the yearly allowable limitation of 236.3 tons.¹ When firing DNCGs, SO₂ emissions shall be determined as stated in Specific Condition No. A.10:

¹ The yearly allowable limitation of 236.3 TPY is applicable to either the No. 5 Power Boiler or the No. 4 Combination Boiler, or the No. 5 Power Boiler and the No. 4 Combination Boiler combined for a total of 236.3 TPY.

[PCP Exclusion dated April 23, 2004]

- A.8. Total Reduced Sulfur (TRS) Emissions. When the No. 5 Power Boiler is used to burn DNCGs, TRS emissions shall not exceed 5 ppm by volume on a dry basis at standard conditions corrected to 10 percent oxygen as a 12-hour average; and 3.9 lbs/hr and 17.1 TPY.

[Rule 62-296.404(3)(f)1., F.A.C.; Construction Permit No. 1070005-024-AC]

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Test Methods and Procedures

- A.9.a. Particulate Matter Emissions – Steady State. Particulate Matter testing shall comply with the applicable requirements in Rule 62-296.405(1)(e)2., F.A.C., (EPA Methods 1 through 5, incorporated and adopted by reference in Chapter 62-297, F.A.C.). An initial compliance test for the purposes of this construction permit^{1,2} shall be performed as described below and then once each federal fiscal year per Rule 62-297.310(7)(a)4., F.A.C.

The facility shall conduct a Particulate Matter compliance test (consisting of three, one-hour runs), under the following operational scenario:

ESP Fields	Power (Watts)
TR ₁ , TR ₃	PV ₁ + PV ₃

The following information shall also be obtained during the tests:

- i) Secondary voltage, secondary current reading per TR set of each field
- ii) The spark rate
- iii) Gas temperature (inlet and outlet)
- iv) Rapper frequency

¹ For the purposes of this construction permit only, if the results of the particulate matter compliance test conducted while the emissions unit is operating under soot blowing conditions demonstrates compliance with the PM emissions limiting standard in Specific Condition No. A.5.a, the facility may submit a waiver request to the Air Compliance section of this Office for the particulate matter compliance test required by Specific Condition A.9.a. Otherwise, the facility shall conduct the PM testing as required by this Specific Condition.

² GP shall continue to demonstrate compliance with the requirements of the FINAL Title V Permit No. 1070005-034-AV on the testing frequency required by that permit. This initial compliance test is to demonstrate compliance with the terms of this construction permit after construction is complete of the 3rd field of the ESP.

[Rule 62-296.405(1)(e)2., F.A.C.; Construction Permit No. 1070005-024-AC; Construction Permit No. 1070005-025-AC; FINAL Title V Operation Permit No. 1070005-034-AV]

- A.9.b. Particulate Matter Emissions –Soot Blowing¹. Particulate Matter testing shall comply with the applicable requirements in Rule 62-296.405(1)(e)2., F.A.C., (EPA Method 5, incorporated and adopted by reference in Chapter 62-297, F.A.C.).

An initial compliance test for the purposes of this construction permit² shall be performed as described below and then once each federal fiscal year per Rule 62-297.310(7)(a)4., F.A.C.

The facility shall conduct a Particulate Matter compliance test (consisting of three, one-hour runs), under each of the following operational scenario:

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ESP Fields	Power (Watts)
TR ₁ , TR ₃	PV ₁ + PV ₃

The following information shall also be obtained during the tests:

- i) Secondary voltage, secondary current reading per TR set of each field
- ii) The spark rate
- iii) Gas temperature (inlet and outlet)
- iv) Rapper frequency

¹ For excess emission limitations for particulate matter specified in Rule 62-210.700, F.A.C., (Condition A.5b.), 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 fuel for more than 400 hours other than during startup.

² GP shall continue to demonstrate compliance with the requirements of the FINAL Title V Permit No. 1070005-034-AV on the testing frequency required by that permit. This initial compliance test is to demonstrate compliance with the terms of this construction permit after construction is complete of the 3rd field of the ESP.

[Rule 62-296.405(1)(e)2., F.A.C.; Rule 62-210.700(3), F.A.C; Rule 62-297.310(7)(a)2., F.A.C.; Construction Permit No. 1070005-024-AC; Construction Permit No. 1070005-025-AC- S.C. 20; FINAL Title V Operation Permit No. 1070005-034-AV]

A.10.a. Visible Emissions – Steady State. The Visible Emissions test method shall be DEP Method 9, incorporated in Chapter 62-297, F.A.C.¹

¹ GP shall continue to demonstrate compliance with the requirements of the FINAL Title V Permit No. 1070005-034-AV on the testing frequency required by that permit.

[Rules 62-296.405(1)(e)1. and 62-297.401(9), F.A.C.; Construction Permit No. 1070005-024-AC; Construction Permit No. 1070005-025-AC; FINAL Title V Operation Permit No. 1070005-034-AV]

A.10.b. Visible Emissions - Soot Blowing & Load Change. The Visible Emissions test method shall be DEP Method 9, incorporated in Chapter 62-297, F.A.C.¹

¹ GP shall continue to demonstrate compliance with the requirements of the FINAL Title V Permit No. 1070005-034-AV on the testing frequency required by that permit.

[Rule 62-297.401(9), F.A.C.; Rule 62-210.700(3), F.A.C.; Construction Permit No. 1070005-024-AC; Construction Permit No. 1070005-025-AC – S.C. 14,23; FINAL Title V Operation Permit No. 1070005-034-AV]

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- A.11. Sulfur Dioxide Emissions. In lieu of stack testing, SO₂ emissions due to the burning of fuel oil shall be determined as follows:

$$(\%S \text{ oil}/100) \times 8.2 \text{ lbs/gal} \times \text{lb mole S}/32 \text{ lbs S} \times \text{lb mole SO}_2/\text{lb mole S} \times 64 \text{ lbs SO}_2/\text{lb mole SO}_2 = (0.164 \times \%S) \text{ lbs SO}_2/\text{gal}$$

$$(0.164 \times \%S) \text{ lbs SO}_2/\text{gal} \times \text{gallons of fuel oil fired} = \text{lbs SO}_2$$

For purposes of this condition, daily SO₂ emissions from the #5 PB due to burning of DNCGs will be determined as follows:

$$(\text{Daily production in Tons ADUP} \times 0.35 \text{ lbs-S/ton ADUP} \times 2 \text{ lbs SO}_2/1\text{lb-S}) \times \text{Minutes DNCG's burned in \#5PB}/1440 \text{ minutes/day} = \text{lbs SO}_2 / \text{day from \#5PB}$$

A record shall be maintained for at least five years of the following:

The date, time, and duration DNCGs are fired in the boiler,¹
The sulfur content of the fuel oil fired (based upon a three barge rolling average),
The amount (gallons) of fuel oil fired,
The certified on-specification used oil analysis (when on-spec used oil is fired).

¹The mill shall obtain this information from the plant data information system or the Operators' DNCG Diversion log as backup to the plant data information system.

The yearly allowable limitation of 236.3 TPY is applicable to either the No. 5 Power Boiler or the No. 4 Combination Boiler, or the No. 5 Power Boiler and the No. 4 Combination Boiler combined for a total of 236.3 TPY.

A SO₂ emissions report of the above data shall be submitted to the Compliance Section of the Northeast District Office on an annual basis (by April 1 for the previous year).

[Rules 62-296.405(1)(f)1.b. and Rule 62-296.405(1)(e)3., F.A.C.; PCP Exclusion dated April 23, 2004; Construction Permit No. 1070005-024-AC]

- A.12. TRS Emissions. It is assumed that compliance with the TRS emissions limit stated in Condition No. A.8 is achieved by maintaining the minimum temperature of 1200° F and the 0.5-second residence time.

[40 CFR 60.283(a)(1)(iii); Construction Permit No. 1070005-024-AC]

- A.13. TRS Emissions. When routing TRS gases to this boiler for thermal destruction, the gases shall be introduced with the primary fuel or into the flame zone, or with the combustion air. The TRS gases shall be subject to a minimum temperature of 1200° F for at least 0.5 second.

[Rules 62-296.404(3)(a)1. and 62-296.404(5)(d), F.A.C.; 40 CFR 60.283(a)(1)(iii); Construction Permit No. 1070005-024-AC;]

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- A.14. Compliance Test Procedures. Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.

[Rule 62-296.414(3)(b), F.A.C.]

- A.15. Compliance Test Notification. At least 15 days prior the date on which each formal compliance test is due to begin, the permittee shall provide written notification of the test to the Air Compliance Section of this Office. The notification must include the following information: the date, time, and location of each test; the name and telephone number of the facility's contact person who will be responsible for coordinating the test; and the name, company and telephone number of the person conducting the test.

[Rule 62-297.310(7)(a)9., F.A.C.]

- A.16. Test Reports. Reports of the required compliance tests shall be filed with the Air Compliance Section of this Office as soon as practical but no later than 45 days after the last test is completed.

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

- A.17. Operation During Compliance Test. Unless otherwise stated in the applicable emission limiting standard rule, testing of emissions shall be conducted with the emissions unit operation at permitted capacity as defined in Specific Condition A.2. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load 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)(b), F.A.C.]

- A.18. Stack sampling facilities. Stack sampling facilities shall comply with the requirements of Rule 62-297.310(6), FAC.

- A.19. 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.]

Initial Compliance Test Frequency

- A.20. The permittee shall conduct an initial formal compliance test as stated in Specific Condition No. A.9.a., within 60 days after the addition of the third field in the ESP.

[Rule 62-297.310(7)(a)1., F.A.C.]

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Subsequent Compliance Test Frequency

- A.21. Requirements for Annual Testing. The owner or operator shall meet all applicable requirements of Rule 62-297.310(4), F.A.C.

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

Equipment Requirements

- A.22. 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.

[Rule 62-297.310(5)(a), F.A.C.]

- A.23. 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)(b), F.A.C.]

- A.24. Control Equipment. Control equipment shall be provided with a method of access that is safe and readily accessible.

[Rule 62-297.310(6), FAC.]

- A.25. Circumvention of Control Devices. No person shall circumvent any air pollution control device, or allow the emissions of air pollutants without the applicable air pollution control device operating properly.

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

Excess Emissions

{Permitting Note: The Excess Emissions Rule at Rule 62-210.700, F.A.C., cannot vary any requirement of a NSPS or NESHAP provision.}

- A.26. Excess emissions resulting from 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.]

- A.27. Excess Emissions resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized.

[Rule 62-210.700(2), F.A.C.]

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- A.28. Excess Emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited.

[Rule 62-210.700(4), F.A.C.]

Recordkeeping and Reporting Requirements

- A.29. Commencement of Operation: The permittee shall submit to the Air Compliance section of this Office written notification of the date of commencement of operation of the electrostatic precipitator as modified. This notification shall be submitted or postmarked with as many days prior to the date of operation commencement as practical, but no later than one (1) business day following commencement of operation.

[Rule 62-4.070, F.A.C.]

- A.30. The permittee shall submit an Operation and Maintenance Plan for the electrostatic precipitator. The O&M plan may be submitted with the Title V Air Operation Permit Revision application.

[Rule 62-4.070, F.A.C.]

- A.31. The permittee shall submit the final design information of the third field and the expected performance criteria. This information may be submitted with the Test Report required by Specific Condition No. A.16.

[Rule 62-4.070, F.A.C.]

- A.32. Annual Operating Report. Permittee shall submit an annual operation report to the Department for this emission unit(s) on the form(s) supplied for each calendar year on or before March 1.

[Rule 62-210.370(3), FAC]

- A.33. Excess Emissions – Malfunctions. In case of excess emissions resulting from malfunctions, the owner or operator shall notify the Department 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.]

Used Oil Requirements

- A.34. This emissions unit is also subject to the On-Spec Used Oil requirements specified in Subsection S of FINAL Title V Operation Permit No. 1070005-034-AV.

Periodic Monitoring

- A.35. This emissions unit is also subject to applicable Periodic Monitoring Requirements specified in Subsection W of FINAL Title V Operation Permit No. 1070005-034-AV.

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Compliance Assurance Monitoring

A.36. This emissions unit is also subject to Compliance Assurance Monitoring as required by 40 CFR Part 64.

[40 CFR 64; and, Rule 62-204.800, F.A.C]

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Subsection B. This section addresses the following emissions units.

Common Conditions:

E.U. ID

<u>No.</u>	<u>Brief Description</u>
015	#5 Power Boiler with an electrostatic precipitator to control particulate matter emissions.

B.1. The ID Number and Project Name for this source shall be used on all correspondences.

B.2. Definitions. Rules 62-210.200(159), (230) and (245), F.A.C. define the following terms.

- a. *Startup* is defined as the commencement of operation of any emissions unit which has shut down or ceased operation for a period of time sufficient to cause temperature, pressure, chemical or pollution control device imbalances, which result in excess emissions.
- b. *Shutdown* is the cessation of the operation of an emissions unit for any purpose.
- c. *Malfunction* is defined as any unavoidable mechanical and/or electrical failure of air pollution control equipment or process equipment or of a process resulting in operation in an abnormal or unusual manner.

[Rule 62-210.200(159), (230), and (245), FAC.]

B.3. Applicable Regulations. The facility is subject to the following regulations: Florida Administrative Code Chapters 62-4; 62-103; 62-204; 62-210; 62-212, 62-213, 62-214, 62-296, and 62-297. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements or regulations.

[Rule 62-210.300, F.A.C.]

B.4. General Conditions. The owner and operator is subject to and shall operate under the General Permit Conditions 1 through 15 of this permit. General Permit Conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes.

[Rule 62-4.160, F.A.C.]

B.5. The modification authorized by this construction permit shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing sixty (60) days prior to the expiration of the construction permit. A new schedule and request for an extension of the construction permit shall be submitted.

[Rule 62-4.080(2), FAC.]

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- B.6. Construction Permit Required. Unless exempt from permitting pursuant to Rule 62-210.300(3)(a) or (b), F.A.C., or Rule 62-4.040, F.A.C., an air construction permit shall be obtained by the owner or operator of any proposed new, reconstructed, or modified facility or emissions unit, or any new pollution control equipment¹ prior to the beginning of construction, reconstruction pursuant to CFR 60.15 or 63.2, or modification of the facility or emissions unit or addition of the air pollution control equipment; or to establish a PAL; in accordance with all applicable provisions of Chapter 62-210, F.A.C., Chapter 62-212, F.A.C., and Chapter 62-4, F.A.C.

¹ Applicable to a new or replacement ESP for this emissions unit.

[Rule 62-210.300(1)(a), F.A.C.]

- B.7. All reports, tests, notifications or other submittals required by this permit shall be submitted to the:

Department of Environmental Protection
Northeast District – Air Program
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256
Telephone: 904/807-3300
Fax: 904/448-4366

- B.8. An air construction permit shall be issued for a period of time sufficient to allow construction of the emissions unit and operation while the new emissions unit is conducting tests or otherwise demonstrating initial compliance with the conditions of the construction permit. Subsequent to construction and demonstration of compliance with the conditions of the construction permit, the owner or operator of shall obtain an initial air operation permit in accordance with all applicable provisions of Chapter 62-210, Chapter 62-213, and Chapter 62-4. The permittee shall submit an application for a Title V Permit Revision at least 90 days prior to the expiration date of this permit but, no later than 180 days after the ESP commences operation as modified.

[Rules 62-4.210, 62-210.300(1)(a); 62-210.300(2); and 62-213.420(1)(a)4., F.A.C.]

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Draft

Christopher L. Kirts, P.E.
District Air Program Administrator