Department of Environmental Protection

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

Jeb Bush
Governor

Colleen Castille
Secretary

PERMITTEE:

Buckeye Florida, Limited Partnership
One Buckeye Drive
Perry, Florida 32348

I.D. Number:	1230001
Permit/Cert Number:	1230001-017-AC
Date of Issue:	February 16, 2005
Expiration Date:	February 16, 2006
County:	Taylor
Latitude/Longitude:	30°03'59" N; 83°33'12" W
UTM:	(17) E-256.7; N-3328.7
Project:	**Foley Mill-** Facility generated Tall Oil as an alternate fuel in Nos. 1 and 2 Power Boilers, Nos. 1 and 2 Bark Boilers, Nos. 2, 3 and 4 Recovery Boilers and No. 4 Lime Kiln

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-210, 62-212, 62-272, 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 #017

Authorizes the firing of **facility-generated Tall Oil** as an alternate fuel for facility fuel burning sources; Emissions Unit Nos. 002, 003, 004, 019, 006, 007, 011, and 024 (No. 1 Power Boiler, No. 2 Power Boiler, No. 1 Bark Boiler, No. 2 Bark Boiler, Nos. 2, 3, and 4 Recovery Boilers, and No. 4 Lime Kiln).

The EUs were previously permitted to fire:

EU	Fuel
002 –No. 1 Power Boiler	Natural gas, No.6 fuel oil with a sulfur content that shall not exceed 2.5% by weight and may include facility generated used oil and No.2 fuel oil, NCGs (during periods when the boiler is being utilized for their destruction).
003- No. 2 Power Boiler	Natural gas, No.6 fuel oil with a sulfur content that shall not exceed 2.5% by weight and may include facility generated used oil and No.2 fuel oil.
004- No. 1 Bark Boiler	Carbonaceous Fuel, No. 6 fuel oil with a sulfur content that shall not exceed 2.5% by weight (which may contain facility generated used oil), No. 2 fuel oil Sulfur content that shall not exceed 0.5% by weight, Natural gas and NCGs (during periods when the boiler is being utilized for their destruction).
006 –No. 2 Recovery Boiler 007- No. 3 Recovery Boiler 011- No. 4 Recovery Boiler	Black liquor solids (BLS), No. 6 fuel oil with a sulfur content that shall not exceed 2.5% by weight (which may contain facility generated used oil), No. 2 fuel oil (Sulfur content that shall not exceed 0.5% by weight), and Natural gas.

GENERAL CONDITIONS:

EU	Fuel
019- No. 2 Bark Boiler	Carbonaceous Fuel, No. 6 fuel oil with a sulfur content that shall not exceed 2.5% by weight (which may contain facility generated used oil), No. 2 fuel oil Sulfur content that shall not exceed 0.5% by weight and Natural gas.
024- No. 4 Lime Kiln	Natural gas and No. 6 fuel oil with a maximum sulfur content of 2.5% by weight and may contain facility generated used oil.

Tall Oil is a vegetable oil by-product from the manufacture of wood pulp. It is a mixture of fatty acids and rosin. Tall Oil will be blended with No. 6 fuel oil.

In addition, the Department is removing the Permitting Note associated with the specific conditions labeled "Permit Capacity" for the above reference emissions units.

FACILITY DESCRIPTION

This facility is a dissolving Kraft mill that consists of major activities areas such as: wood handling facility, pulping system, purification, chemical recovery, power house**,** drying/ converting/ warehouse, associated processes and equipment, and unregulated emissions units.

OPERATING LOCATION

Located east of US 19, south of SR 30, southeast of Perry, Taylor County.

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 – Received April 25 2003
Additional Information Requested May 21, 2003
Additional Information Response received August 14, 2003
Comments received from applicant on December 15, 2003
Comments received from applicant on January 4, 2005

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 these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver 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 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 a reasonable time, 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 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.

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 noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source 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 17-4.120 and 17-730.300, 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)

GENERAL CONDITIONS:

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 measurements;
    - 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.

SPECIFIC CONDITIONS:

Subsection A. The following specific conditions apply to the emissions unit listed below:

Emissions Unit No.	Description
002	No. 1 Power Boiler

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

A.1. **Hours of Operation**: The hours of operation are not limited.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

A.2. **Permitted Capacity:** The maximum heat input rate is 249 MMBtu/hr.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

A.3. **Methods of Operation**: This boiler may be fired with the following fuels:

1. Natural gas.
2. No.6 fuel oil with a sulfur content that shall not exceed 2.5% by weight and may include facility generated used oil.
3. No.2 fuel oil (typically used as a pilot fuel during startups, shutdowns, and malfunctions and for dry out fires after a water wash).
4. NCGs during periods when the boiler is being utilized for their destruction. Such operation shall occur for a period not to exceed 20 calendar days per year, i.e. 480 hours per year unless otherwise approved by the Department.
5. Facility-generated Tall Oil blended with No. 6 fuel oil. The sulfur content of the Tall Oil shall not exceed 0.05% by weight.

[Rule 62-213.410, F.A.C.; Rule 62-210.700, F.A.C.; Construction Permit No. 1230001-011-AC; Construction Permit No. 1230001-012-AC]

EMISSION LIMITATIONS AND PERFORMANCE STANDARDS

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

A.4. **Particulate Matter Emissions**. Particulate Matter emissions shall not exceed 47.9 lbs/hr and 209.96 TPY.
[Rule 62-296.406(2), F.A.C.; Rule 62-210.200(42), F.A.C.; BACT Determination dated 01-25-90]

A.5. **Sulfur Dioxide Emissions**. Sulfur Dioxide emissions shall be limited to a maximum sulfur content of 2.5%, by weight, in the No. 6 fuel oil and 671.9 lbs/hr and 2943.18 TPY.
[Rule 62-296.406(3), F.A.C.; Rule 62-210.200(42), F.A.C.; BACT Determination dated 01-25-90; Construction Permit No. 1230001-018-AC]

A.6. **Total Reduced Sulfur (TRS) Emissions**. When NCG gases are collected and routed to this Emissions Unit, TRS emissions shall not exceed 5 ppmvd @ 10% O_2, as a 12 hour average; 2.28 lbs/hr and 0.55 TPY. TRS Emissions shall be incinerated for a minimum of 0.5 second and at a minimum of 1200°F.

[Rule 62-296.404(3)(f)1., F.A.C.; Construction Permit No. 1230001-011-AC; Construction Permit No. 1230001-012-AC]

SPECIFIC CONDITIONS:

A.7. **Visible Emissions.** Visible Emissions shall not exceed 20% opacity, except for one two-minute period per hour during which opacity shall not exceed 40 percent.

Visible emissions limits for Kraft pulp mill emissions units equipped with wet scrubbers shall be effective only if the visible emission measurement can be made without being substantially affected by moisture condensation. If the Department determines that visible emissions exceed 20 percent opacity, a special compliance test may be required in accordance with Rule 62-297.310(7)(b), F.A.C.

[Rule 62-296.406(1), F.A.C.; Rule 62-296.404(2)(b), F.A.C.; BACT Determination dated 01-25-90]

TEST METHODS AND PROCEDURES

A.8. **Sulfur Dioxide.** The permittee shall conduct sulfur dioxide emissions compliance test upon request by the Department in accordance with the requirements of Specific Condition No. I.6. The test Method shall be EPA Method 6 incorporated and adopted by reference in Chapter 62-297, F.A.C. At all other times, compliance with the emission limit shall be demonstrated by complying with **Specific Condition A.12**. [Rule 62-297.401(6), F.A.C.]

A.9. **Sulfur Content in Tall Oil.** The Permittee shall verify the sulfur content of the Tall oil by using appropriate testing methods on a quarterly basis[1]. These records shall be maintained and reported on an annual basis.

[1]Testing required only if Tall Oil is fired during the quarter.

A.10. **TRS Emissions**. The test method for total reduced sulfur shall be EPA Method 16, or 16A incorporated and adopted by reference in Chapter 62-297, F.A.C. A compliance test shall be conducted prior to operation permit renewal during the federal fiscal year.

{Permitting Note: Buckeye shall use 80,000 acfm (design) to determine the lb/hr value in the event that an actual velocity measurement cannot be obtained during compliance testing}

[Rules 62-296.404(4)(e)3., 62-297.310(7)(a)1., (7)(a)3., (7)(a)4.b. F.A.C., 62-297.401(16), F.A.C.]

A.11. **Visible Emissions.** The test method for VE shall be DEP Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C., and shall be performed once each federal fiscal year. Visible emissions limits for Kraft pulp mill emissions units equipped with wet scrubbers shall be effective only if the visible emission measurement can be made without being substantially affected by moisture condensation. If the Department determines that visible emissions exceed 20 percent opacity, a special compliance test may be required in accordance with Rule 62-297.310(7)(b), F.A.C.
[Rule 62-296.404(2)(b), F.A.C.; Rule 62-297.401(9)(c), F.A.C.]

COMPLIANCE MONITORING

A.12. **Particulate Matter and Sulfur Dioxide Emissions**. In lieu of stack testing, a record shall be maintained of acceptable fuel oil analyses of all fuel oil received for at least a five-year period. This information shall be reported annually each federal fiscal year.

SPECIFIC CONDITIONS:

Specific Condition A.12. Continued:

When fuel oil or a Tall Oil/No. 6 fuel oil blend is fired in this power boiler, compliance with the permit limits (in lbs/hr) shall be determined by using the fuel oil/Tall Oil usage rate [the average for each contiguous 3-hour period (i.e., 0000-0300; 0300-0600; etc.)], fuel oil sulfur content and EPA emissions factors to the calculate particulate matter emissions and SO_2 emissions since the particulate matter and SO_2 are a function of fuel oil sulfur content. The equations are:

1. [[9.19 (S) + 3.22]/1000] x Fuel Oil/Tall Oil Usage [gallons per hr (3-hr avg)] = lbs PM per hour
2. [[157 (S)]/1000] x Fuel Oil/Tall Oil Usage [gallons per hr (3-hr avg)] = lbs SO_2 per hour

where S = weight percent sulfur (i.e., if 2.5%, insert 2.5)

Permitting Note: The 3-hour averaging period is consistent with the manual stack test methods (when applicable), which are normally conducted as three separate 1-hour runs and averaged to determine compliance.}

[Permit No. AO62-230933]

EXCESS EMISSIONS

A.13. **Excess Emissions**. Excess emissions resulting from startup, shutdown, or malfunction of any emission units 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 8 hours in any 24-hour period unless specifically authorized by the Department for longer duration.

{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.14. Periods of excess emissions reported under 40 CFR Part 63, Subpart A shall not be a violation of 40 CFR 63.443(c) and (d), provided that the total time of excess emissions (excluding periods of startup, shutdown, or malfunction) divided by the total process operating time in a semi-annual reporting period does not exceed 4% for the No. 1 Power Boiler and No. 1 Bark Boiler combined.
[40 CFR 63.443(e)3; Construction Permit No. 1230001-011-AC; Construction Permit No. 1230001-012-AC]

CONTINUOUS MONITORING REQUIREMENTS

A.15. **TRS Emissions.** Total Reduced Sulfur (TRS) emissions incineration temperature shall be continuously monitored and recorded.
[Rule 62-296.404(5)(c), F.A.C.]

RECORDKEEPING AND REPORTING REQUIREMENTS

A.16. **Total Reduced Sulfur (TRS).** The Permittee shall submit a Total Reduced Sulfur (TRS) emissions and surrogate parameter data report to the Department postmarked by the 30th day following the end of each calendar quarter. The report shall comply with the requirements of Rule 62-296.404(6), F.A.C.
[Rule 62-296.404(6), F.A.C.]

SPECIFIC CONDITIONS:

COMMON CONDITIONS

A.17. This emissions unit is also subject to Common Conditions I.1.- I.15.

SPECIFIC CONDITIONS:

Subsection B. The following specific conditions apply to the emissions unit listed below:

Emissions Unit No.	Description
003	No. 2 Power Boiler

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

B.1. Hours of Operation: The hours of operation are not limited.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

B.2. Permitted Capacity. The maximum heat input rate is 249 MMBtu/hr.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

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

1. Natural gas.
2. No.6 fuel oil with a sulfur content that shall not exceed 2.5% by weight and may include facility generated used oil.
3. No.2 fuel oil (typically used as a pilot fuel during startups, shutdowns, malfunctions and for dry out fires after a water wash).
4. Facility-generated Tall Oil blended with No. 6 fuel oil. The sulfur content shall not exceed 2.5% by weight. The sulfur content of the Tall Oil shall not exceed 0.05% by weight.

[Rule 62-213.410, F.A.C.; Rule 62-210.700, F.A.C.]

EMISSION LIMITATIONS AND PERFORMANCE STANDARDS

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

B.4. Particulate Matter Emissions. Particulate Matter Emissions shall not exceed 47.9 lbs/hr (based on the test method time period) and 209.96 TPY.
[Rule 62-296.406(2), F.A.C.; Rule 62-210.200(42), F.A.C.; BACT Determination dated 01-25-90]

B.5. Sulfur Dioxide Emissions. Sulfur Dioxide Emissions shall be limited to a maximum sulfur content of 2.5%, by weight, in the No. 6 fuel oil and 671.9 lbs/hr and 2943.18 TPY.
[Rule 62-296.406(3), F.A.C.; Rule 62-210.200(42), F.A.C.; BACT dated 01-25-90]

B.6. Visible Emissions. Visible Emissions shall not exceed 20% opacity, except 40% for 2 mins/hr is allowed.

Visible emissions limits for Kraft pulp mill emissions units equipped with wet scrubbers shall be effective only if the visible emission measurement can be made without being substantially affected by moisture condensation. If the Department determines that visible emissions exceed 20 percent opacity, a special compliance test may be required in accordance with Rule 62-297.310(7)(b), F.A.C.

[Rule 62-296.406(1), F.A.C.; Rule 62-210.200(42), F.A.C.; Rule 62-296.404(2)(b), F.A.C.; BACT dated 01-25-90].

SPECIFIC CONDITIONS:

TEST METHODS AND PROCEDURES

B.7. **Sulfur Dioxide.** The permittee shall conduct sulfur dioxide emissions compliance test upon request by the Department in accordance with the requirements of Specific Condition No. I.6. The test Method shall be EPA Method 6 incorporated and adopted by reference in Chapter 62-297, F.A.C. At all other times, compliance with the emission limit shall be demonstrated by complying with **Specific Condition B.10.**
[Rule 62-297.401(6), F.A.C.]

B.8. **Sulfur Content in Tall Oil.** The Permittee shall verify the sulfur content of the Tall oil by using appropriate testing methods on a quarterly basis. These records shall be maintained and reported on an annual basis.

[1]Testing required only if Tall Oil is fired during the quarter.

B.9. **Visible Emissions.** Visible Emissions testing shall comply with the applicable requirements in Rule 62-297.401(9), F.A.C. and be performed once each federal fiscal year. Visible emissions limits for Kraft pulp mill emissions units equipped with wet scrubbers shall be effective only if the visible emission measurement can be made without being substantially affected by moisture condensation. If the Department determines that visible emissions exceed 20 percent opacity, a special compliance test may be required in accordance with Rule 62-297.310(7)(b), F.A.C.

The test method for VE shall be EPA Method 9 incorporated and adopted by reference in Chapter 62-297.

[Rule 62-296.404(2)(b), F.A.C.; Rule 62-297.401, F.A.C.]

COMPLIANCE MONITORING

B.10. **Particulate Matter and Sulfur Dioxide Emissions**. In lieu of stack testing a record shall be maintained of acceptable fuel oil analyses of all fuel oil received for at least five years and reported annually each federal fiscal year.

When fuel oil or a Tall Oil/No. 6 fuel oil blend is fired in this power boiler, compliance with the permit limits (in lbs/hr) shall be determined by using the fuel oil/Tall Oil usage rate [the average for each contiguous 3-hour period (i.e., 0000-0300; 0300-0600; etc.)], fuel oil sulfur content and EPA emissions factors to the calculate particulate matter emissions and SO_2 emissions since the particulate matter and SO_2 are a function of fuel oil sulfur content. The equations are:

1. [[9.19 (S) + 3.22]/1000] x Fuel Oil/Tall Oil Usage [gallons per hr (3-hr avg)] = lbs PM per hour
2. [[157 (S)]/1000] x Fuel Oil/Tall Oil Usage [gallons per hr (3-hr avg)] = lbs SO_2 per hour

where S = weight percent sulfur (i.e., if 2.5%, insert 2.5)

{Permitting Note: The 3-hour averaging period is consistent with the manual stack test methods (when applicable), which are normally conducted as three separate 1-hour runs and averaged to determine compliance.}

[Permit No. AO62-230934]

SPECIFIC CONDITIONS:

REPORTING AND RECORDKEEPING REQUIREMENTS

B.11. **Excess Emissions.** Excess emissions resulting from startup, shutdown, or malfunction of any emission units 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 8 hours in any 24-hour period unless specifically authorized by the Department for longer duration.

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

B.12. This emissions unit is also subject to Common Conditions I.1.- I.15.

SPECIFIC CONDITIONS:

Subsection C. The following specific conditions apply to the emissions unit listed below:

Emissions Unit No.	Description
004	No. 1 Bark Boiler

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

C.1. **Hours of Operation**: The hours of operation are not limited.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

C.2. **Permitted Capacity:** Permitted Capacity. The maximum heat input rate is 300 MMBtu/hr.
[Rule 62-210.200(PTE), F.A.C.]

C.3. **Methods of Operation**. This boiler may be fired with the following fuels:

1. Carbonaceous Fuel consisting of wood materials such as bark, chips, sawdust and other such wood fiber material.
2. No. 6 fuel oil with a sulfur content that shall not exceed 2.5% by weight (which may contain facility generated used oil) fired as primary fuel and during startups, shutdowns, malfunctions or temporary loss of bark.
3. No. 2 fuel oil fired typically as a pilot fuel during startups, shutdowns, malfunctions and for dry out fires after a water wash. Sulfur content that shall not exceed 0.5% by weight.
4. Natural gas fired typically as a pilot fuel during startups, shutdowns, malfunctions and for dry out fires after a water wash.
5. NCGs during periods when the boiler is being utilized for their destruction.
6. Facility-generated Tall Oil blended with No. 6 fuel oil. The sulfur content of the Tall Oil shall not exceed 0.05% by weight.

[Rule 62-213.410, F.A.C.; Rule 62-210.700, F.A.C.; Permit No. AC62-141927; Construction Permit No. 1230001-011-AC; Construction Permit No. 1230001-012-AC]

EMISSION LIMITATIONS AND PERFORMANCE STANDARDS

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

C.4. **Particulate Matter Emissions**. Particulate Matter emissions shall not exceed the following:

when firing only carbonaceous fuel:

0.158 lb/MMBtu and 207 TPY

when firing only No. 6 fuel oil or Tall Oil/Fuel Oil blend:

0.1 lb/MMBtu or 24.0 lb/hr

[FINAL Title V Permit No. 1230001-007-AV]

SPECIFIC CONDITIONS:

C.5. **Sulfur Dioxide Emissions**. Sulfur Dioxide emissions shall be limited to a maximum sulfur content of 2.5% by weight, in the No. 6 fuel oil and 675.1 lbs/hr and 2957 TPY.
[Permit No. AC62-141927]

C.6. **Total Reduced Sulfur (TRS) Emissions.** Total Reduced Sulfur emissions shall not exceed 5 ppmvd @ 10% O_2 as a 12-hour average; 3.38 lbs/hr (based on the test method time period) and 14.80 TPY.
[Rule 62-296.404(3)(f)1., F.A.C.; FINAL Title V Permit No. 1230001-007-AV]

C.7. **Visible Emissions.** Visible emissions shall not exceed 30% opacity, except that up to 40% Opacity is permissible for not more than 2 minutes in any one hour.

Visible emissions limits for Kraft pulp mill emissions units equipped with wet scrubbers shall be effective only if the visible emission measurement can be made without being substantially affected by moisture condensation. If the Department determines that visible emissions exceed 20 percent opacity, a special compliance test may be required in accordance with Rule 62-297.310(7)(b), F.A.C.

[Rule 62-296.410(1)(b)1., F.A.C.; Rule 62-296.404(2)(b), F.A.C.]

TEST METHODS AND PROCEDURES

C.8. **Particulate Matter Emissions.** The test method for particulate matter emissions shall be EPA Method 5, incorporated and adopted by reference in Chapter 62-297, F.A.C. This compliance test shall be performed once each federal fiscal year.
[Rule 62-296.410(3), F.A.C.; Rules 62-297.401(5), F.A.C.; Permit No. AC62-141927]

C.9. **Sulfur Dioxide Emissions**. The test method for sulfur dioxide emissions shall be EPA Method 6 incorporated and adopted by reference in Chapter 62-297, F.A.C. This compliance test shall be performed once each federal fiscal year.
[Rule 62-297.401(6), F.A.C.; Permit No. AC62-141927]

C.10. **Sulfur Content in Tall Oil.** The Permittee shall verify the sulfur content of the Tall oil by using appropriate testing methods on a quarterly basis. These records shall be maintained and reported on an annual basis.

[1]Testing required only if Tall Oil is fired during the quarter.

C.11. **TRS Emissions.** The test method for total reduced sulfur emissions shall be EPA Method 16 or 16A incorporated and adopted by reference in Chapter 62-297, F.A.C. A compliance test shall be conducted prior to operation permit renewal during the federal fiscal year.
[Rule 62-297.401(16), F.A.C.; Permit No. AC62-141927; Rules 62-296.404(4)(e)3., 62-297.310(7)(a)1., (7)(a)3., (7)(a)4.b. F.A.C.]

C.12. **Visible Emissions.** The test method for visible emissions shall be DEP Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C., and shall be performed once each federal fiscal year. Visible emissions limits for Kraft pulp mill emissions units equipped with wet scrubbers shall be effective only if the visible emission measurement can be made without being substantially affected by moisture condensation. If the Department determines that visible emissions exceed 20 percent opacity, a special compliance test may be required in accordance with Rule 62-297.310(7)(b), F.A.C.
[Rule 62-296.410(3), F.A.C.; Rule 62-297.401(9)(c), F.A.C.; Permit No. AC62-141927]

SPECIFIC CONDITIONS:

EXCESS EMISSIONS

C13. **Excess Emissions**. Excess emissions resulting from startup, shutdown, or malfunction of any emission units 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 8 hours in any 24-hour period unless specifically authorized by the Department for longer duration.

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

CONTINUOUS MONITORING REQUIREMENTS

C.14. **TRS Emissions.** Total Reduced Sulfur (TRS) emissions incineration temperature shall be continuously monitored and recorded.
[Rule 62-296.404(5)(c), F.A.C.; Permit No. AC62-141927; May 17, 1990 Amendment]

RECORDKEEPING AND REPORTING REQUIREMENTS

C.15. **Total Reduced Sulfur (TRS).** The Permittee shall submit a Total Reduced Sulfur (TRS) emissions and surrogate parameter data report to the Department postmarked by the 30th day following the end of each calendar quarter. The report shall comply with the requirements of Rule 62-296.404(6), F.A.C.
[Rule 62-296.404(6), F.A.C.; Permit No. AC62-141927]

COMMON CONDITIONS

C.16. This emissions unit is also subject to Common Conditions I.1.- I.15.

SPECIFIC CONDITIONS:

Subsection D. The following specific conditions apply to the emissions unit listed below:

Emissions Unit No.	Description
006	No. 2 Recovery Boiler

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

D.1. **Hours of Operation**: The hours of operation are not limited.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

D.2. **Permitted Capacity.** The maximum allowed operation rate is 97,600 lbs (BLS)/hr, where BLS is Black Liquor Solids fired.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Permit No. AO62-191214]

D.3. **Methods of Operation.** This boiler may be fired with:

1. Black liquor solids (BLS).
2. No. 6 fuel oil with a sulfur content that shall not exceed 2.5% by weight (which may contain facility generated used oil) fired as primary fuel during startups, shutdowns, malfunctions or temporary loss of BLS.
3. No. 2 fuel oil fired typically as a pilot fuel during startups, shutdowns, malfunctions and for dry out fires after a water wash. Sulfur content that shall not exceed 0.5% by weight. The usage of #2 fuel oil is limited to 50,000 gallons per year, unless otherwise requested.
4. Natural gas fired typically as a pilot fuel during startups, shutdowns, malfunctions and for dry out fires after a water wash.
5. Facility-generated Tall Oil blended with No. 6 fuel oil. The sulfur content of the Tall Oil shall not exceed 0.05% by weight.

[Rule 62-213.410, F.A.C.; Rule 62-210.700, F.A.C.; Permit No. AO62-191214]

EMISSION LIMITATIONS AND STANDARDS

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

D.4. **Particulate Matter Emissions**. Particulate Matter Emissions shall not exceed 3 lbs/3000 lbs BLS; 97.6 lbs/hr (based on the test method time period) and 427.49 TPY. The amount of BLS fired in this recovery boiler shall be continuously monitored and recorded.
[Rule 62-296.404(2), F.A.C.; Permit No. AO62-191214]

D.5. **Total Reduced Sulfur (TRS).** Total Reduced Sulfur (TRS) emissions shall not exceed 17.5 ppmvd @ 8% O2 as a 12-hr avg; 11.38 lbs/hr (based on the test method time period) and 49.86 TPY.
[Rule 62-296.404(3)(c)1.a., F.A.C.; Permit No. AO62-191214]

SPECIFIC CONDITIONS:

D.6. **Visible Emissions.** Visible Emissions shall not exceed 45% opacity for a 6-minute average, except for up to 60% for one 6-minute period per hour is allowed.
[Rule 62-296.404(1), F.A.C.; Permit No. AO62-191214]

TEST METHODS AND PROCEDURES

D.7. **Sulfur Content in Tall Oil.** The Permittee shall verify the sulfur content of the Tall oil by using appropriate testing methods on a quarterly basis. These records shall be maintained and reported on an annual basis.

[1]Testing required only if Tall Oil is fired during the quarter.

D.8. **Particulate Matter emissions.** Particulate Matter emissions shall be tested using EPA Method 5 or 17, incorporated and adopted by reference in Chapter 62-297, F.A.C., and shall be performed once each federal fiscal year.
[Rule 62-296.404(4)(a)2., F.A.C.; Rules 62-297.401(5), F.A.C.; Permit No. AO62-191214]

D.9. **Visible Emissions.** Visible Emissions shall be tested using EPA Method 9 incorporated and adopted by reference in Chapter 62-297 and be performed once each federal fiscal year.
[Rule 62-296.404(4)(a)1., F.A.C.; Rules 62-297.401(9), F.A.C.; Permit No. AO62-191214]

CONTINUOUS MONITORING REQUIREMENTS

D.10. **Total Reduced Sulfur (TRS).** Total Reduced Sulfur (TRS) emissions continuous monitoring shall comply with the applicable requirements in Rule 62-296.404(5), F.A.C.
[Rule 62-296.404(5), F.A.C.; Permit No. AO62-191214]

RECORDKEEPING AND REPORTING REQUIREMENTS

D.11. **Total Reduced Sulfur (TRS).** Submit a Total Reduced Sulfur (TRS) emissions continuous monitoring report.
[Rule 62-296.404(6), F.A.C.; Permit No. AO62-191214]

D.12. **Excess Emissions.** Excess emissions resulting from startup, shutdown, or malfunction of any emission units 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 8 hours in any 24-hour period unless specifically authorized by the Department for longer duration.

[Rule 62-210.700, F.A.C.]

D.13. This emissions unit is also subject to Common Conditions I.1.- I.15.

SPECIFIC CONDITIONS:

Subsection E. The following specific conditions apply to the emissions units listed below:

Emissions Unit No.	Description
007	No. 3 Recovery Boiler

E.1. **Hours of Operation.** The hours of operation are not limited.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

E.2. **Permitted Capacity.** The maximum allowed operation rate is 82,350 lbs (BLS)/hr, where BLS is Black Liquor Solids fired.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Permit No. AO62-187788]

E.3. **Methods of Operation**. This boiler may be fired with:

1. Black liquor solids (BLS).
2. No. 6 fuel oil with a sulfur content that shall not exceed 2.5% by weight (which may contain facility generated used oil) fired as primary fuel during startups, shutdowns, malfunctions or temporary loss of BLS.
3. No. 2 fuel oil fired typically as a pilot fuel during startups, shutdowns, malfunctions and for dry out fires after a water wash. Sulfur content that shall not exceed 0.5% by weight. The usage of #2 fuel oil is limited to 50,000 gallons per year, unless otherwise requested.
4. Natural gas fired typically as a pilot fuel during startups, shutdowns, malfunctions and for dry out fires after a water wash.
5. Facility-generated Tall Oil blended with No. 6 fuel oil. The sulfur content of the Tall Oil shall not exceed 0.05% by weight.

[Rule 62-213.410, F.A.C.; Rule 62-210.700, F.A.C.; Permit No. AO62-187788]

EMISSION LIMITATIONS AND STANDARDS

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

E.4. **Particulate Matter Emissions**. Particulate Matter Emissions shall not exceed 3 lbs/3000 lbs BLS; 82.35 lbs/hr (based on the test method time period) and 360.69 TPY. The amount of BLS fired in this recovery boiler shall be continuously monitored and recorded.
[Rule 62-296.404(2), F.A.C.; Permit No. AO62-187788]

E.5. **Total Reduced Sulfur (TRS).** Total Reduced Sulfur (TRS) emissions shall not exceed 17.5 ppmvd @ 8% O2 as a 12-hr avg; 11.05 lbs/hr (based on the test method time period) and 48.28 TPY.
[Rule 62-296.404(3)(c)1.a., F.A.C.; Permit No. AO62-187788]

E.6. **Visible Emissions.** Visible Emissions shall not exceed 45% opacity for a 6-minute average, except for up to 60% for one 6-minute period per hour is allowed.
[Rule 62-296.404(1), F.A.C.; Permit No. AO62-187788]

SPECIFIC CONDITIONS:

TEST METHODS AND PROCEDURES

E.7. **Sulfur Content in Tall Oil.** The Permittee shall verify the sulfur content of the Tall oil by using appropriate testing methods on a quarterly basis. These records shall be maintained and reported on an annual basis.

[1]Testing required only if Tall Oil is fired during the quarter.

E.8. **Particulate Matter emissions.** Particulate Matter emissions shall be tested using EPA Method 5 or 17, incorporated and adopted by reference in Chapter 62-297, F.A.C., and shall be performed once each federal fiscal year.
[Rule 62-296.404(4)(a)2., F.A.C.; Rules 62-297.401(5), F.A.C.; Permit No. AO62-187788]

E.9. **Visible Emissions.** Visible Emissions shall be tested using EPA Method 9 incorporated and adopted by reference in Chapter 62-297 and be performed once each federal fiscal year.
[Rule 62-296.404(4)(a)1., F.A.C.; Rules 62-297.401(9), F.A.C.; Permit No. AO62-187788]

CONTINUOUS MONITORING REQUIREMENTS

E.10. **Total Reduced Sulfur (TRS).** Total Reduced Sulfur (TRS) emissions continuous monitoring shall comply with the applicable requirements in Rule 62-296.404(5), F.A.C.
[Rule 62-296.404(5), F.A.C.; Permit No. AO62-187788]

E.11. **Total Reduced Sulfur (TRS).** Submit a Total Reduced Sulfur (TRS) emissions continuous monitoring report.
[Rule 62-296.404(6), F.A.C.; Permit No. AO62-187788]

E.12. **Excess Emissions.** Excess emissions resulting from startup, shutdown, or malfunction of any emission units 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 8 hours in any 24-hour period unless specifically authorized by the Department for longer duration.
[Rule 62-210.700, F.A.C.]

E.13. This emissions unit is also subject to Common Conditions I.1.- I.15.

SPECIFIC CONDITIONS:

Subsection F. The following specific conditions apply to the emissions units listed below:

Emissions Unit No.	Description
011	No. 4 Recovery Boiler

F.1. Hours of Operation. The hours of operation are not limited.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

F.2. Permitted Capacity. The maximum allowed operation rate is 123,825 lbs (BLS)/hr, where BLS is Black Liquor Solids fired.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Permit No. AO62-208309]

F.3. Methods of Operation. This boiler is fired with:

1. Black liquor solids (BLS).
2. No. 6 fuel oil with a sulfur content that shall not exceed 2.5% by weight (which may contain facility generated used oil) fired as primary fuel during startups, shutdowns, malfunctions or temporary loss of BLS.
3. No. 2 fuel oil fired typically as a pilot fuel during startups, shutdowns, malfunctions and for dry out fires after a water wash. Sulfur content that shall not exceed 0.5% by weight. The usage of No. 2 fuel oil is limited to 50,000 gallons per year, unless otherwise requested.
4. Natural gas fired typically as a pilot fuel during startups, shutdowns, malfunctions and for dry out fires after a water wash.
5. Facility-generated Tall Oil blended with No. 6 fuel oil. The sulfur content of the Tall Oil shall not exceed 0.05% by weight.

[Rule 62-213.410, F.A.C.; Rule 62-210.700, F.A.C.; Permit No. AO62-208309]

EMISSION LIMITATIONS AND STANDARDS

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

F.4. Particulate Matter Emissions. Particulate Matter Emissions shall not exceed 3 lbs/3000 lbs BLS; 113.40 lbs/hr (based on the test method time period) and 496.69 TPY. The amount of BLS fired in this recovery boiler shall be continuously monitored and recorded.
[Rule 62-296.404(2), F.A.C.; Permit No. AO62-208309]

F.5. Total Reduced Sulfur (TRS). Total Reduced Sulfur (TRS) emissions shall not exceed 5.0 ppmvd @ 8% O2 as a 12-hr avg; 4.57 lbs/hr (based on the test method time period) and 20.02 TPY.
[Rule 62-296.404(3)(c)1.b., F.A.C.; Permit No. AO62-208309]

F.6. Visible Emissions. Visible Emissions shall not exceed 45% opacity for a 6-minute average, except for up to 60% for one 6-minute period per hour is allowed.
[Rule 62-296.404(1), F.A.C.; Permit No. AO62-208309]

SPECIFIC CONDITIONS:

TEST METHODS AND PROCEDURES

F.7. **Sulfur Content in Tall Oil.** The Permittee shall verify the sulfur content of the Tall oil by using appropriate testing methods on a quarterly basis. These records shall be maintained and reported on an annual basis.

[1]Testing required only if Tall Oil is fired during the quarter.

F.8. **Particulate Matter.** Particulate Matter emissions shall be tested using EPA Method 5 incorporated and adopted by reference in Chapter 62-297, F.A.C., and shall be performed annually with a base date of 9/30. [Rule 62-296.404(4)(a)2., F.A.C.; Rules 62-297.401(5), F.A.C.; Permit No. AO62-208309]

F.9. **Visible Emissions**. Visible Emissions shall be tested using EPA Method 9 incorporated and adopted by reference in Chapter 62-297 and be performed annually with a frequency base date of 9/30. [Rule 62-296.404(4)(a)1., F.A.C.; Rules 62-297.401(9), F.A.C.; Permit No. AO62-208309]

CONTINUOUS MONITORING REQUIREMENTS

F.10. **Total Reduced Sulfur (TRS).** Total Reduced Sulfur (TRS) emissions continuous monitoring shall comply with the applicable requirements in Rule 62-296.404(5), F.A.C. [Rule 62-296.404(5), F.A.C.; Permit No. AO62-208309]

RECORDKEEPING AND REPORTING REQUIREMENTS

F.11. **Total Reduced Sulfur (TRS).** Submit a Total Reduced Sulfur (TRS) emissions continuous monitoring report. [Rule 62-296.404(6), F.A.C.; Permit No. AO62-208309]

F.12. **Excess Emissions.** Excess emissions resulting from startup, shutdown, or malfunction of any emission units 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 8 hours in any 24-hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700, F.A.C.]

F.13. This emissions unit is also subject to Common Conditions I.1-I.15.

SPECIFIC CONDITIONS:

Subsection G. The following specific conditions apply to the emissions unit listed below:

Emissions Unit No.	Description
019	No. 2 Bark Boiler

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

G.1. Hours of Operation: The hours of operation are not limited.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

G.2. Permitted Capacity. The maximum allowed heat input rate is 601 MMBtu/hr.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Permit No. AO62-202123]

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

1. Carbonaceous Fuel consisting of wood materials such as bark, chips, sawdust and other such wood fiber material.
2. No. 6 fuel oil with a sulfur content that shall not exceed 2.5% by weight (which may contain facility generated used oil) fired as primary fuel during startups, shutdowns, malfunctions or temporary loss of bark. A record of (rate and hours) shall be maintained when firing no. 6 fuel oil.
3. No. 2 fuel oil fired typically as a pilot fuel during startups, shutdowns, malfunctions and for dry out fires after a water wash. Sulfur content that shall not exceed 0.5% by weight.
4. Natural gas fired typically as a pilot fuel during startups, shutdowns, malfunctions and for dry out fires after a water wash.
5. Facility-generated Tall Oil blended with No. 6 fuel oil. The sulfur content of the Tall Oil shall not exceed 0.05% by weight.

[Rule 62-213.410, F.A.C.; Rule 62-210.700, F.A.C.; Permit No. AO62-202123]

EMISSION LIMITATIONS AND PERFORMANCE STANDARDS

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

G.4. Particulate Matter Emissions. Particulate Matter Emissions shall not exceed 0.178 lb per MMBTU of heat input from carbonaceous fuel; 106.73 lbs/hr (based on the test method time period) and 467.48 TPY. Particulate matter emissions shall not exceed 0.1 lb/MMBtu of heat input and 18.0 lbs/hr (based on the test method time period) from firing No. 6 fuel oil only.
[Requested by applicant; Rule 62-296.410(2)(b)2., F.A.C.; Permit No. AO62-202123]

G.5. Sulfur Dioxide Emissions. Sulfur Dioxide Emissions shall be limited to a maximum sulfur content of 2.5 %, by weight, in the No. 6 fuel oil and 498.96 lbs/hr.
[Construction Permit No. AC62-30466]

SPECIFIC CONDITIONS:

G.6. **Visible Emissions.** Visible Emissions shall not exceed 30% opacity, except 40% for 2 mins/hr is allowed. Visible emissions limits for Kraft pulp mill emissions units equipped with wet scrubbers shall be effective only if the visible emission measurement can be made without being substantially affected by moisture condensation.
[Rule 62-296.410(2)(b)1., F.A.C.; Rule 62-296.404(2)(b), F.A.C.; Permit No. AO62-202123]

TEST METHODS AND PROCEDURES

G.7. **Sulfur Content in Tall Oil.** The Permittee shall verify the sulfur content of the Tall oil by using appropriate testing methods on a quarterly basis. These records shall be maintained and reported on an annual basis.

[1]Testing required only if Tall Oil is fired during the quarter.

G.8. **Particulate Matter emissions**. Particulate Matter emissions shall be tested using EPA Method 5, incorporated and adopted by reference in Chapter 62-297, F.A.C., and shall be performed each federal fiscal year.
[Rule 62-296.410(3), F.A.C.; Rules 62-297.401(5), F.A.C.; Permit No. AO62-202123]

G.9. **Sulfur Dioxide emissions.** In lieu of stack testing a record shall be maintained of acceptable fuel oil analyses of all fuel oil received for at least five years and reported annually each federal fiscal year.

When fuel oil or a Tall Oil/No. 6 fuel oil blend is fired in this bark boiler, compliance with the permit limits (in lbs/hr) shall be determined by using the fuel oil/Tall Oil usage rate [the average for each contiguous 3-hour period (i.e., 0000-0300; 0300-0600; etc.)], fuel oil sulfur content and EPA emissions factors to the calculate SO_2 emissions since the SO_2 are a function of fuel oil sulfur content. The equation is:

1. [[157 (S)]/1000] x Fuel Oil/Tall Oil Usage [gallons per hr (3-hr avg)] = lbs SO_2 per hour
   where S = weight percent sulfur (i.e., if 2.5%, insert 2.5)

   {Permitting Note: The 3-hour averaging period is consistent with the manual stack test methods (when applicable), which are normally conducted as three separate 1-hour runs and averaged to determine compliance.}

[Rules 62-297.440(1)(b), F.A.C.; Permit No. AO62-202123]

G.10. **Visible Emissions.** Visible Emissions shall be tested using EPA Method 9 incorporated and adopted by reference in Chapter 62-297 and be performed each federal fiscal year. Visible emissions limits for Kraft pulp mill emissions units equipped with wet scrubbers shall be effective only if the visible emission measurement can be made without being substantially affected by moisture condensation. If the Department determines that visible emissions exceed 20 percent opacity, a special compliance test may be required in accordance with Rule 62-297.310(7)(b), F.A.C.

[Rule 62-296.410(3), F.A.C.; Rule 62-297.401(9), F.A.C.; Permit No. AO62-202123]

G.11. **Excess Emissions.** Excess emissions resulting from startup, shutdown, or malfunction of any emission units 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 8 hours in any 24-hour period unless specifically authorized by the Department for longer duration.
[Rule 62-210.700, F.A.C.]

SPECIFIC CONDITIONS:

G.12. This emissions unit is also subject to Common Conditions I.1.- I.15.

SPECIFIC CONDITIONS:

Subsection H. The following specific conditions apply to the emissions unit listed below:

Emissions Unit No.	Description
024	No. 4 Lime Kiln

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

H.1. Hours of Operation: The hours of operation are not limited.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

H.2. Permitted Capacity. The maximum allowed production rate of 62,500 lbs (lime product)/hr.

H.3. Methods of Operation - This kiln is fired with:

1. Natural gas. The fuel burning rate for natural gas rate shall not to exceed 0.202 million cubic feet per hour.
2. No. 6 fuel oil with a maximum sulfur content of 2.5% by weight and may contain facility generated used oil. The fuel burning rate for no. 6 fuel oil shall not to exceed 1400 gallons per hour.
3. Facility-generated Tall Oil blended with No. 6 fuel oil. The sulfur content of the Tall Oil shall not exceed 0.05% by weight.

[Rule 62-213.410, F.A.C.; Rule 62-210.700, F.A.C.; Permit 1230001-04-AC]

EMISSION LIMITATIONS AND STANDARDS

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

From lime kiln stack:

H.4. Particulate Matter (PM/PM10) Emissions. Particulate Matter (PM/PM10) Emissions shall not exceed 0.0451 gr/dscf at 10% O_2; 20.0 lbs/hr (based on the test method time period) and 87.6 TPY.
[Rule 62-210.200(42), F.A.C., (BACT); Construction Permit No. 1230001-004-AC]

H.5. Sulfur Dioxide (SO2) Emissions. Sulfur Dioxide (SO2) Emissions shall not exceed 1.0 lb/ton CaO; 31.25 lbs/hr and 136.9 TPY.

When fuel oil or a Tall Oil/No. 6 Fuel Oil blend is fired in the LK, lime production and fuel oil usage shall be recorded daily and used in calculating the SO2 emissions using the initial compliance testing emission factor.

EU ID	Test Date	Run	Process Rate	Oil[1] GPH	Predicted[2] Emissions	Actual Emissions	Comment
Kiln (024)	5/22/87	1	27.1 TPH CaO	918	27.1 lb/hr	1.10 lb/hr	

SPECIFIC CONDITIONS:

EU ID	Test Date	Run	Process Rate	Oil[1] GPH	Predicted[2] Emissions	Actual Emissions	Comment
Kiln (024)	5/22/87	2	27.1 TPH CaO	918	27.1 lb/hr	0.19 lb/hr	Sample/Below Detection Limit; calculated at detection limit
Kiln (024)	5/22/87	3	27.1 TPH CaO	918	27.1 lb/hr	0.19 lb/hr	Sample/Below Detection Limit; calculated at detection limit
Avg			27.1 TPH CaO	918	27.1 lb/hr	0.49 lb/hr	

1 - Nominal Fuel Oil Rate for test period; No. 6 fuel oil analysis indicated 2.33% sulfur by weight
2 - Emissions Factor 1.0 lb/Ton CaO; NCASI Technical Bulletin 646; Average SO2 emissions for lime kilns.
Source: Initial Post-Construction Compliance Test Reports/submitted to FDEP NED Office 7/1/87.
[Rule 62-210.200(42), F.A.C., (BACT); Construction Permit No. 1230001-004-AC]

H.6. **Nitrogen Oxide (NO_x) Emissions.** Nitrogen Oxide (NO_x) Emissions shall not exceed 2.19 lbs/ton CaO; 68.44 lbs/hr (based on the test method time period) and 299.8 TPY.
[Rule 62-210.200(42), F.A.C., (BACT); Construction Permit No. 1230001-004-AC]

H.7. **Total Reduced Sulfur (TRS).** Total Reduced Sulfur (TRS) Emissions shall not exceed 7 ppmvd @ 10% O_2; 2.64 lbs/hr (based on the test method time period) and 11.58 TPY.
[Construction Permit No. 1230001-004-AC]

H.8. **Visible Emissions.** Visible Emissions shall not exceed 20% opacity.
[Construction Permit No. 1230001-004-AC; PSD-FL-232]

TEST METHODS AND PROCEDURES

From lime kiln stack:

H.9. **Particulate Matter.** Particulate Matter emissions testing shall be by using EPA Method 5, incorporated and adopted by reference in Chapter 62-297, F.A.C., and shall be performed once each federal fiscal year.
[Rule 62-296.404(4)(b)2., F.A.C.; Rule 62-297.401(5), F.A.C.; 40 CFR 60.285; Construction Permit No. 1230001-004-AC]

H.10. **Sulfur Dioxide (SO2).** Sulfur Dioxide (SO2) emissions compliance shall be determined by tracking the daily lime production and calculating the emissions rate using the emission factor.

H.11. **Sulfur Content in Tall Oil.** The Permittee shall verify the sulfur content of the Tall oil by using appropriate testing methods on a quarterly basis. These records shall be maintained and reported on an annual basis.

[1]Testing required only if Tall Oil is fired during the quarter.

[Construction Permit No. 1230001-017-AC]

SPECIFIC CONDITIONS:

H.12. **Nitrogen Oxide emissions.** Nitrogen Oxide emissions testing shall be by using EPA Method 7 or 7E, incorporated and adopted by reference in Chapter 62-297, F.A.C., and shall be performed every five years (prior to permit renewal).
[Rule 62-297.401(7), F.A.C.; Construction Permit No. 1230001-004-AC]

H.13. **Total Reduced Sulfur.** Total Reduced Sulfur emissions testing shall be by using EPA Method 16, incorporated and adopted by reference in Chapter 62-297, F.A.C., and shall be performed every five years (prior to permit renewal).
[Rule 62-296.404(4)(b)3., F.A.C.; Rule 62-297.401(16), F.A.C.; 40 CFR 60.285; Construction Permit No. 1230001-004-AC]

H.14. **Visible Emissions.** Visible Emissions testing shall be by using EPA Method 9 incorporated and adopted by reference in Chapter 62-297, F.A.C., and shall be performed once each federal fiscal year.
[Rule 62-297.401(9), F.A.C.; 40 CFR 60.285; Construction Permit No. 1230001-004-AC]

CONTINUOUS MONITORING REQUIREMENTS

H.15. **Total Reduced Sulfur.** Total Reduced Sulfur emissions shall be continuously monitored in accordance with the cited regulations.
[Rule 62-296.404(5), F.A.C.; 40 CFR 60.284(a)(2); Construction Permit No. 1230001-004-AC]

RECORDKEEPING AND REPORTING REQUIREMENTS

H.16. **Total Reduced Sulfur (TRS).** Total Reduced Sulfur (TRS) emissions monitoring shall be reported quarterly.
[Rule 62-296.404(6), F.A.C.; Construction Permit No. 1230001-004-AC]

H.17. This emissions unit is also subject to Common Conditions I.1.- I.15.

SPECIFIC CONDITIONS:

Subsection I. Common Conditions

Emissions Unit No.	Description
002	No. 1 Power Boiler
003	No. 2 Power Boiler
004	No. 1 Bark Boiler
006	No. 2 Recovery Boiler
007	No. 3 Recovery Boiler
011	No. 4 Recovery Boiler
019	No. 2 Bark Boiler
024	No.4 Lime Kiln

I.1. **Compliance Test Procedures**: Test procedures shall meet all applicable requirements of Chapter 62-297, F.A.C.

I.2. **Compliance Test Notification**: At least 15 days prior to 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 Northeast District Department of Environmental Protection (DEP) 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.]

I.3. **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.]

I.4. **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.]

I.5. **Compliance Test Reports:** Reports of the required compliance tests shall be submitted as soon as practical but no later than 45 days after the last test is completed. Each test report shall include the maximum input / production rate at which this source was operated since the most recent test.
[Rule 62-297.310(8),F.A.C.]

SPECIFIC CONDITIONS:

I.6. **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.]

I.7. **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.]

I.8. **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.]

I.9. **Annual Operating Report**: The owner or operator shall submit an Annual Operating Report for Air Pollutant Emitting Facility (DEP Form No. 62-210.900(5)) to the Northeast District Department of Environmental Protection (DEP) Office annually pursuant to Rule 62-210.370(3), F.A.C.

I.10. This permit shall supercede previous construction permits issued for these emission units and activities only to the extent of incorporating the conditions of this permit.

I.11. Any revision(s) to a permit (and application) must be submitted to the Department, in writing, and approved by the Department prior to implementation.

I.12. The permittee shall submit an application for a Title V Permit Revision no later than 180 days after these emissions units commence operation under the terms of this permit.
[Rule 62-213.420(1)(a)5., F.A.C.]

I.13. All 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: 904/448-4363

PERMITTEE:
Buckeye Florida, Limited Partnership
One Buckeye Drive
Perry, Florida 32348

I.D. Number: 1230001
Permit/Cert: 1230001-017-AC
Date of Issue: February 16, 2005
Expiration Date: February 16, 2006

SPECIFIC CONDITIONS:

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

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