



GEORGIA

DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Air Quality - Part 70 Operating Permit Amendment

Facility Name: Rayonier Performance Fibers, LLC

Facility Address: 4470 Savannah Highway
Jesup, Georgia 31545 Wayne County

Mailing Address: 4470 Savannah Highway
Jesup, Georgia 31545

Parent/Holding Company: Rayonier Performance Fibers, LLC

Facility AIRS Number: 04-13- 305-00001

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Georgia Rules for Air Quality Control, Chapter 391-3-1, adopted pursuant to and in effect under the Act, the Permittee described above is issued an amendment to the Part 70 Operating Permit for:

The decommissioning of the No. 3 Power Boiler (PB03) after startup of the Altamaha Green Energy, LLC Circulating Fluidized Bed Boiler (CFB).

This Permit Amendment is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Amendment and Permit No. 2631-305-0001-V-05-0. Unless modified or revoked, this Amendment expires simultaneously with Permit No. 2631-305-0001-V-05-0. This Amendment may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in App No. 883097 dated November 1, 2024; any other applications upon which this Amendment or Permit No. 2631-305-0001-V-05-0 are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached **10** pages.



DRAFT

Jeffrey W. Cown, Director
Environmental Protection Division

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PART 1.0 FACILITY DESCRIPTION**1.3 Process Description of Modification**

The No. 3 Power Boiler (Source Code PB03) is an existing boiler at the Rayonier Performance Fibers, LLC facility with a heat input capacity of 485 MMBtu/hr. The boiler burns biomass and natural gas to provide steam to the Kraft pulp process. Altamaha Green Energy, LLC (AGE) proposes to construct a new circulating fluidized bed (CFB) biomass cogeneration boiler on the Rayonier property. The CFB Boiler (Source Code BO1) and its auxiliary equipment will generate power for the electrical grid and supply supplemental steam to the Rayonier plant that is currently supplied by the No. 3 Power Boiler. Following 60 days after the shakedown period of AGE's CFB Boiler, the No. 3 Power Boiler, the existing biomass storage pile, bark hog systems, and two steam turbines will be permanently decommissioned. Neither pulp production volumes nor the steam demand and balance for operation of the Rayonier plant will be affected by the project.

The AGE facility will be located on Rayonier property that will be leased to AGE and will supply steam to the Rayonier plant. Thus, the facilities are considered a single major stationary source under Title V and PSD. However, each operation will have separate ownership and management and each owner will be responsible for compliance and reporting requirements accountable for the emissions units it operates for compliance purposes. Therefore, AGE will obtain its own Title V operating permit.

PART 4.0 REQUIREMENTS FOR TESTING**4.2 Specific Testing Requirements****MODIFIED CONDITION**

- 4.2.1 The Permittee shall perform performance tests for the following specified equipment and pollutants:
[391-3-1-.02(6)(b)(1)]

Equipment	Pollutants
D Lime Kiln (CA81)	Particulate Matter
No. 5 Recovery Furnace (RF01)	Particulate Matter
No. 6 Recovery Furnace (RF04)	Particulate Matter
No. 5 Recovery Furnace Dissolving Tank (RF02)	Particulate Matter Total Reduced Sulfur
No. 6 East and West Recovery Furnace Dissolving Tanks (RF05 and RF06)	Particulate Matter Total Reduced Sulfur

MODIFIED CONDITION

- 4.2.2 The Permittee shall conduct performances tests as specified by the following table and criteria unless otherwise specified by the Division:
[391-3-1-.02(6)(b)(1)]

Equipment	Pollutants
D Lime Kiln (CA81)*	PM – annual
No. 5 Recovery Furnace (RF01)*	PM – annual
No. 6 Recovery Furnace (RF04)*	PM – annual
No. 5 Recovery Furnace Dissolving Tank (RF02)*	PM – annual TRS - biennial (once every 2 years)
No. 6 East and West Recovery Furnace Dissolving Tanks (RF05 and RF06)*	PM - annual TRS - biennial (once every 2 years)

*Initial PM testing is required for all emissions sources subject to the limitations in 40 CFR 63.862 by October 13, 2020.

- a. Where the results of a performance test which is required annually are less than or equal to 50 percent of the allowable limit, the Permittee may skip the next scheduled performance test;
- b. Where the results of a performance test, which is required annually are greater than 85 percent of the allowable limit, the Permittee shall begin testing on a semiannual basis with the next performance test due approximately six months following that test. If any subsequent test is less than or equal to 85 percent of the allowable limit, the Permittee shall resume annual testing. The provisions of 4.2.2.a do not apply until the results of two consecutive tests are less than or equal to 85 percent of the allowable.

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- c. Where the results of a performance test, which is required biennially are greater than 85 percent of the allowable limit, the Permittee shall begin testing on an annual basis with the next performance test due approximately twelve months following that test. If any subsequent test is less than or equal to 85 percent of the allowable limit, the Permittee shall resume biennial testing.
- d. Data from these tests shall be used to establish the operational parameters as specified in Condition 6.1.7.c. Data from a previously approved performances test which demonstrated compliance with the applicable emission limit may be used to establish the operational parameters in lieu of the most recent performance tests as long as that previous performance test is representative of current operations of the emission unit and was conducted during the 5 years prior to the most recent performance test or the life of this permit, whichever is shorter.
- e. The Permittee shall submit a list of all the current operational parameters established in accordance with this condition for the purpose of reporting under Condition 6.1.7.c with the quarterly report required by Condition 6.1.4.
[391-3-1-.02(2)(a)(10)]
- f. Repeat performance tests shall be performed at five-year intervals for all emission sources subject to limitations in 40 CFR 63.862. The five-year repeat tests must be conducted within 60 months from the date of the previous performance test. Performance tests shall be conducted based on representative performance of the affected source for the period being tested. The Permittee must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. Upon request, the Permittee shall make available to the Division such records as may be necessary to determine the conditions of the performance tests.
[40 CFR 63.863(c), 40 CFR 63.865]
- g. The Permittee must continuously monitor each parameter and determine the arithmetic average value of each parameter during all Division approved performance test runs for emissions sources subject to 40 CFR Part 63, Subpart MM. Multiple performance tests may be conducted to establish a range of parameter values. Operating outside a previously established parameter limit during a performance test to expand the operating limit range does not constitute a monitoring exceedance. Operating limits must be confirmed or reestablished during performance tests.
[40 CFR 63.864(j)(4)]

NEW CONDITION

- 4.2.15 The Permittee shall perform performance tests for the following specified equipment and pollutants:
[391-3-1-.02(6)(b)(1)]

Equipment	Pollutants
No. 3 Power Boiler (PB03)	Particulate Matter

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NEW CONDITION

- 4.2.16 The Permittee shall conduct performances tests as specified by the following table and criteria unless otherwise specified by the Division:
[391-3-1-.02(6)(b)(1)]

Equipment	Pollutants
No. 3 Power Boiler (PB03)	PM – annual

- a. Where the results of a performance test which is required annually are less than or equal to 50 percent of the allowable limit, the Permittee may skip the next scheduled performance test;
- b. Where the results of a performance test, which is required annually are greater than 85 percent of the allowable limit, the Permittee shall begin testing on a semiannual basis with the next performance test due approximately six months following that test. If any subsequent test is less than or equal to 85 percent of the allowable limit, the Permittee shall resume annual testing. The provisions of 4.2.2.a do not apply until the results of two consecutive tests are less than or equal to 85 percent of the allowable.
- c. Where the results of a performance test, which is required biennially are greater than 85 percent of the allowable limit, the Permittee shall begin testing on an annual basis with the next performance test due approximately twelve months following that test. If any subsequent test is less than or equal to 85 percent of the allowable limit, the Permittee shall resume biennial testing.
- d. Data from these tests shall be used to establish the operational parameters as specified in Condition 6.1.7.c. Data from a previously approved performances test which demonstrated compliance with the applicable emission limit may be used to establish the operational parameters in lieu of the most recent performance tests as long as that previous performance test is representative of current operations of the emission unit and was conducted during the 5 years prior to the most recent performance test or the life of this permit, whichever is shorter.
- e. The Permittee shall submit a list of all the current operational parameters established in accordance with this condition for the purpose of reporting under Condition 6.1.7.c with the quarterly report required by Condition 6.1.4.
[391-3-1-.02(2)(a)(10)]
- f. Repeat performance tests shall be performed at five-year intervals for all emission sources subject to limitations in 40 CFR 63.862. The five-year repeat tests must be conducted within 60 months from the date of the previous performance test. Performance tests shall be conducted based on representative performance of the affected source for the period being tested. The Permittee must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. Upon request, the Permittee shall make available to the Division such records as may be necessary to determine the conditions of the performance tests.
[40 CFR 63.863(c), 40 CFR 63.865]

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- g. The Permittee must continuously monitor each parameter and determine the arithmetic average value of each parameter during all Division approved performance test runs for emissions sources subject to 40 CFR Part 63, Subpart MM. Multiple performance tests may be conducted to establish a range of parameter values. Operating outside a previously established parameter limit during a performance test to expand the operating limit range does not constitute a monitoring exceedance. Operating limits must be confirmed or reestablished during performance tests.
[40 CFR 63.864(j)(4)]

PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)**5.2 Specific Monitoring Requirements****MODIFIED CONDITION**

- 5.2.9 The following pollutant specific emission unit(s) (PSEU) is/are subject to the Compliance Assurance Monitoring (CAM) Rule in 40 CFR 64.

Emission Unit	Pollutant
No. 5 Recovery Furnace Dissolving Tank (Source Code RF02)	Total Reduced Sulfur
No. 6 Recovery Furnace Dissolving Tank East (Source Code RF05)	Total Reduced Sulfur
No. 6 Recovery Furnace Dissolving Tank West (Source Code RF06)	Total Reduced Sulfur
Lime Bins CAC1 – Grouped Emission Unit (Source Codes CA09, CA10, CA86)	Particulate Matter
North Lime Receiving CAC2 - Grouped Emission Unit (Source Codes CA14, CA15)	Particulate Matter
South Lime Receiving CAC3 - Grouped Emission Unit (Source Codes CA16, CA17)	Particulate Matter

Permit conditions in this permit for the PSEU(s) listed above with regulatory citation 40 CFR 70.6(a)(3)(i) are included for the purpose of complying with 40 CFR 64. In addition, the Permittee shall meet the requirements, as applicable, of 40 CFR 64.7, 64.8, and 64.9.
[40 CFR 64]

NEW CONDITION

- 5.2.20 The following pollutant specific emission unit(s) (PSEU) is/are subject to the Compliance Assurance Monitoring (CAM) Rule in 40 CFR 64.

Emission Unit	Pollutant
No. 3 Power Boiler (Source Code PB03)	Particulate Matter

Permit conditions in this permit for the PSEU(s) listed above with regulatory citation 40 CFR 70.6(a)(3)(i) are included for the purpose of complying with 40 CFR 64. In addition, the Permittee shall meet the requirements, as applicable, of 40 CFR 64.7, 64.8, and 64.9.
[40 CFR 64]

PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS**6.2 Specific Record Keeping and Reporting Requirements**MODIFIED CONDITION

6.2.31 For 40 CFR 63 Subpart DDDDD, the Permittee shall submit periodic reports as specified in 40 CFR 63.7550 and Table 9 of 40 CFR 63 Subpart DDDDD on the schedule specified in 40 CFR 63.7550(b) for the operation of the No. 4 Power Boiler (Source Code PB04) and the No. 5 Power Boiler (Source Code PB05). The reports shall contain the following:
[40 CFR 63.7550]

- a. Information required in 40 CFR 63.7550(c)(1) through (5);
- b. If there are no deviations from any emission limitation (emission limit and operating limit) that applies and there are no deviations from the requirements for work practice standards in Table 3 of 40 CFR 63 Subpart DDDDD that apply, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. If there were no periods during which the CMSs, including continuous emissions monitoring system and operating parameter monitoring systems, were out-of-control as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which the CMSs were out-of-control during the reporting period; and
- c. If there is a deviation from any emission limitation (emission limit and operating limit) where a CMS is not used to comply with that emission limit or operating limit, or a deviation from a work practice standard during the reporting period, the report must contain the information in 40 CFR 63.7550(d); and
- d. If there were periods during which the CMSs, including continuous emissions monitoring system and operating parameter monitoring systems, were out-of-control as specified in 40 CFR 63.8(c)(7), or otherwise not operating, the report must contain the information in 40 CFR 63.7550(e).

6.2.32 For 40 CFR 63 Subpart DDDDD, the Permittee shall maintain the following records for the operation of the No. 4 Power Boiler (Source Code PB04) and the No. 5 Power Boiler (Source Code PB05).

[40 CFR 63.7555]

- a. A copy of each notification and report submitted by the Permittee to comply with 40 CFR 63 Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance reports, according to the requirements in 40 CFR 63.10(b)(2)(xiv).
- b. Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).
- c. For each CEMS and continuous monitoring system the Permittee must keep records according to 40 CFR 63.7555(b)(1) through (5).

- d. Records required in Table 8 of 40 CFR 63 Subpart DDDDD including records of all monitoring data and calculated averages for applicable operating limits, such as opacity, pressure drop, pH, and operating load, to show continuous compliance with each emission limit and operating limit.
- e. Applicable records in 40 CFR 63.7555(d)(1) through (11).

NEW CONDITION

6.2.51 For 40 CFR 63 Subpart DDDDD, the Permittee shall submit periodic reports as specified in 40 CFR 63.7550 and Table 9 of 40 CFR 63 Subpart DDDDD on the schedule specified in 40 CFR 63.7550(b) for the operation of the No. 3 Power Boiler (Source Code PB03). The reports shall contain the following:
[40 CFR 63.7550]

- a. Information required in 40 CFR 63.7550(c)(1) through (5);
- b. If there are no deviations from any emission limitation (emission limit and operating limit) that applies and there are no deviations from the requirements for work practice standards in Table 3 of 40 CFR 63 Subpart DDDDD that apply, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. If there were no periods during which the CMSs, including continuous emissions monitoring system and operating parameter monitoring systems, were out-of-control as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which the CMSs were out-of-control during the reporting period; and
- c. If there is a deviation from any emission limitation (emission limit and operating limit) where a CMS is not used to comply with that emission limit or operating limit, or a deviation from a work practice standard during the reporting period, the report must contain the information in 40 CFR 63.7550(d); and
- d. If there were periods during which the CMSs, including continuous emissions monitoring system and operating parameter monitoring systems, were out-of-control as specified in 40 CFR 63.8(c)(7), or otherwise not operating, the report must contain the information in 40 CFR 63.7550(e).

NEW CONDITION

6.2.52 For 40 CFR 63 Subpart DDDDD, the Permittee shall maintain the following records for the operation of the No. 3 Power Boiler (Source Code PB03).
[40 CFR 63.7555]

- a. A copy of each notification and report submitted by the Permittee to comply with 40 CFR 63 Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance reports, according to the requirements in 40 CFR 63.10(b)(2)(xiv).
- b. Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).

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- c. For each CEMS and continuous monitoring system the Permittee must keep records according to 40 CFR 63.7555(b)(1) through (5).
- d. Records required in Table 8 of 40 CFR 63 Subpart DDDDD including records of all monitoring data and calculated averages for applicable operating limits, such as opacity, pressure drop, pH, and operating load, to show continuous compliance with each emission limit and operating limit.
- e. Applicable records in 40 CFR 63.7555(d)(1) through (11).

NEW CONDITION

- 6.2.53 The No. 3 Power Boiler (Source Code PB03) shall be permanently decommissioned no later than 60 days after completion of the shakedown period for the Altamaha Green Energy CFB Boiler (Source Code BO1). Upon shutdown, permit requirements related to the No. 3 Power Boiler shall become null and void and the deleted/modified language in this amendment shall become effective. The Permittee shall notify the Division, in writing, of the decommissioning date of the No. 3 Power Boiler within 15 days of such date.
[Avoidance of 40 CFR 52.21]

PART 7.0 OTHER SPECIFIC REQUIREMENTS**7.14 Specific Conditions****NEW CONDITION**

- 7.14.1 No later than 60 days after completion of the shakedown period for the Altamaha Green Energy CFB Boiler (Source Code BO1), and the decommissioning of the No. 3 Power Boiler (Source Code PB03), as defined by Condition 6.2.53, the following existing Permit Conditions will become null and void.

Become Null and Void
3.3.36 – 3.3.39
3.4.1 – 3.4.3
3.4.30
4.2.9 – 4.2.10
4.2.15 – 4.2.16
5.2.2.f
5.2.14 – 5.2.16
5.2.20
6.1.7.b.xxiv
6.1.7.c.ix
6.2.2
6.2.51- 6.2.52