

PERMIT AMENDMENT NO. 2077-243-0011-S-04-2
ISSUANCE DATE:



GEORGIA
DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Air Quality – Permit Amendment

In accordance with The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to or in effect under that Act, Permit No. 2077-243-0011-S-04-0 issued on December 26, 2018, to:

Facility Name: Tyson Farms, Inc., River Valley Ingredients - Cuthbert
Facility Address: 82 Georgia Feed Drive
Cuthbert, Georgia 39840 (Randolph County)
Mailing Address: P. O. Box 528
Cuthbert, Georgia 39840
Facility AIRS Number: 04-13-243-00011

for the following: The operation of a poultry rendering facility

is hereby amended as follows: Replacement of existing boiler B8 with a new boiler B12.

Reason for Amendment: Application No. 28366 dated April 20, 2022

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 4 page(s).

This Permit Amendment is hereby made a part of Permit No. 2077-243-0011-S-04-0 and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.



Richard E. Dunn, Director
Environmental Protection Division

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2. Allowable Emissions

Amended Conditions

- 2.1 The Permittee shall not cause to be discharged into the atmosphere from the Boilers B9, B10, B11 and **B12** any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.
[40 CFR 60.43c(d) and 391-3-1-.02(2)(d)3]
- 2.2 The Permittee shall not cause, let, suffer, permit, or allow any emissions from Boilers B6, B7, B9, B10, B11 and **B12** which:
- a. Contain fly ash and/or other particulate matter in amounts equal to or exceeding the rate derived from $P = 0.7(10/R)^{0.202}$ where R equals heat input rate in million BTU per hour and P equals the allowable emission rate in pounds per million BTU for fuel-burning equipment constructed or modified before January 1, 1972 (Boilers B6 and B7).
[391-3-1-.02(2)(d)1. (ii)]
 - b. Contain fly ash and/or other particulate matter in amounts equal to or exceeding the rate derived from $P = 0.5(10/R)^{0.5}$ where R equals heat input rate in million BTU per hour and P equals the allowable emission rate in pounds per million BTU for fuel-burning equipment constructed or modified after January 1, 1972 (Boilers B9, B10, B11 and **B12**).
[391-3-1-.02(2)(d)2. (ii)]
- 2.6 Fuel oil fired in the Boilers B6, B7, B9, B10, B11, **B12**, Feather Dryers D1, RF5, and RF6, or any other fuel burning source shall be distillate fuel oil and shall not contain more than 15 ppm sulfur by weight. Distillate fuel oil means fuel oil that complies with the specification for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396, "Standard Specification for Fuel Oils." Any firing of fuel oils with other names, such as numbers 1 or 2 diesel fuel oil, highway diesel fuel oil, low sulfur fuel oil or extremely low sulfur fuel oil, etc., is acceptable only in so far as such fuels meet the requirements listed above.
[PSD and Title V Major Source Avoidance, 40 CFR 60.41c, and 40 CFR 60.42c(d)]
- 2.9 The Permittee shall comply with all applicable provisions of the New Source Performance Standards (NSPS) as found in 40 CFR Part 60 Subpart A - "General Provisions" and Subpart Dc - "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units," for operation of the Johnston Boilers B9, B10, B11 and **B12**.
[40 CFR 60.40c]
- 2.12 The Permittee shall not fire any fuel other than natural gas in the boilers and Feather Dryers ((Emission Unit ID Nos. B6, B7, B9, B10, B11, **B12**, D1, RF5, and RF6). Also, the Permittee shall not fire distillate fuel oils in any boiler unless during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel (Periodic testing of liquid fuel shall not exceed a total of 48 hours during any calendar year **for any boiler**).
[391-3-1-.03(2)(c), 40 CFR 60.42c(d), 40 CFR 63 Subpart JJJJJ Avoidance, and 391-3-1-.02(2)(g)2.]

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Distillate fuel oils mean fuel oils that meet the specifications for fuel oil No. 1 or No. 2, as defined by the American Society for Testing and Materials in ASTM D396, "Standard Specification for Fuel Oils." In particular, distillate fuel oils shall not contain greater than 15 ppm sulfur, by weight.

5. Monitoring

Amended Conditions

5.2 The Permittee shall verify that each shipment of fuel oil received for combustion in Boilers B6, B7, B9, B10, B11, **B12** and Feather Dryers D1, RF5, and RF6 complies with the requirements of Condition No. 2.6. Verification shall consist of either of the following:
[391-3-1-.02(6)(b)(1)]

- a. Fuel oil receipts obtained from the fuel supplier certifying that the oil is distillate oil. Fuel supplier certification shall include the following information: (1) the name of the oil supplier and, (2) a statement from the oil supplier that the oil complies with the specifications under the definition of distillate fuel oil contained in Condition 2.6.
- b. Analysis of the fuel oil conducted by methods of sampling and analysis, which have been specified or approved by the Division.

5.4 The Permittee shall install, calibrate, maintain and operate monitoring devices for the measurement of the following parameters. Data shall be recorded at the frequency specified below:
[391-3-1-.02(6)(b)1]

- a. The differential pressure drop across the process air Scrubber SC1. Data shall be recorded every two hours during which the poultry and/or feather rendering process operates.
- b. The oxidation reduction potential (ORP) for the process air Scrubber SC1. Data shall be recorded every two hours during which the poultry and/or feather rendering process operates.
- c. A fuel oil consumption meter or other method acceptable to the Division to measure No. 2 fuel oil (gallons) and natural gas (cubic feet) fired in Boilers B6, B7, B9, B10, B11, **B12** and Dryers D1, RF5, and RF6. Data shall be recorded monthly.
- d. An hourly meter capable of discerning total hours operated of each feather dryer. Data shall be recorded monthly.

5.6 Following the initial performance test, subsequent Method 9 performance testing shall be conducted at the frequency specified in Table 1 below, in order to monitor compliance with the emission limit specified in Condition 2.1. If, during the initial 60 minutes of observation, all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent, the observation period may be reduced from 3 hours to 60 minutes.
[40 CFR 60.47c(g), 40 CFR 70.6(a)(3)(i), and 391-3-1-.02(6)(b)1]

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Table 1	
Visible Emission Monitoring Frequency for Boilers B9, B10, B11 and B12	
Highest 6-Minute Average Opacity Observed	Subsequent testing shall be conducted once the affected boiler fires on fuel oils after the period specified below following the most recent performance test
0%	12 Calendar Months
>0%-5%	6 Calendar Months
>5%-10%	3 Calendar Months
>10%	30 Calendar Days

5.7 If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 performance test required by Condition 5.6, the Permittee may, as an alternative to performing subsequent Method 9 tests, elect to perform subsequent monitoring using Method 22, according to the following procedures.

[40 CFR 60.47c(g), 40 CFR 70.6(a)(3)(i), and 391-3-1-.02(6)(b)1]

- a. The Permittee shall conduct 10-minute observations (during normal operation) each operating day the affected boilers B9, B10, B11 and **B12** fire fuel oil, using Method 22, and demonstrate that the sum of the occurrence of any visible emissions while firing fuel oil is not in excess of 5 percent of the observation period (i.e., 30 seconds per 10-minute period). If the sum of the occurrence of any visible emissions is greater than 30 seconds during the initial 10-minute observation, the Permittee shall immediately conduct a 30-minute observation. If the sum of the occurrence of visible emissions is greater than 5 percent of the observation period (i.e., 90 seconds per 30-minute period), the Permittee shall either document and adjust the operation of the boiler and demonstrate within 24 hours that the sum of the occurrence of visible emissions is equal to or less than 5 percent during a 30-minute observation (i.e., 90 seconds), or conduct a new Method 9 performance test while firing fuel oil, within 30 calendar days where fuel oil is being fired. Subsequent Method 9 testing shall not be required should the affected boiler no longer be firing fuel oil at the time the testing is required, but testing shall be conducted at the next occurrence when fuel oil is burned in the affected boiler.
- b. If no visible emissions are observed for thirty operating days during which fuel oil is fired, observations can be reduced to once every 7 operating days. If any visible emissions are observed, daily observations shall be resumed while fuel oil is being fired.

7. Notification, Reporting and Record Keeping Requirements

Amended Conditions

7.11 For the purpose of reporting excursions (any departure from an indicator range or value established for monitoring consistent with any averaging period specified for averaging the results of the monitoring) in the report required in Condition 7.12, the following excursions shall be reported:

[391-3-1-.02(6)(b), 40 CFR 60.42c(d), and 40 CFR 60.48c(j)]

- a. Any two consecutive two-hour differential pressure readings greater than eight inches of water across Scrubber SC1.

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- b. Any two consecutive two-hour ORP readings during which the ORP of the scrubbant liquid in Scrubber SC1 is outside the range of 250 to 800 millivolts (mv).
- c. Any calendar week during which the average bed moisture of sectors measured indicates that any biofilter (BF1, BF2 and BF3) average bed moisture is outside the range of 40 to 70 percent. If the moisture exceeds 70 percent during temporary increases in moisture content due to heavy or long rains, the Permittee must keep records indicating the reason for moisture being above 70 percent.
- d. Any weekly measurement that indicates a pH of a biofilter bed (BF1, BF2 and BF3) outside the range of 4 to 8.
- e. Any time fuel oil is burned, in Boilers B9, B10, B11 or **B12** which does not comply with the specifications of fuel oil Numbers 1 or 2 as defined by ASTM D 396 "Standard Specification for Fuel Oils".
- f. Any result of a Method 9 performance test required by Condition 5.6, or 5.7a that exceeds the opacity limit specified in Condition 2.1.

7.12 The Permittee shall submit to the Division a semiannual report by July 30 of the calendar year of record and by January 30 of the year following the calendar year of record unless otherwise approved by the Division. The report shall include the information required to be recorded in accordance with Conditions 7.8, 7.9 and 7.11 of this Permit and shall contain:
[40 CFR 60.48c(d) and 40 CFR 60.48c(j)]

- a. The fuel oil supplier certifications required by Condition No. 5.2 for all distillate fuel oil received during the reporting period.
- b. A certified statement, signed by an official of the company, affirming that the records of fuel oil supplier certifications submitted in accordance with subparagraph a. of this condition represent all of the fuel oil fired in the Boilers B9, B10, B11 and **B12** during the semiannual period.
- c. The total quantity of No. 2 fuel oil burned in Boilers B9, B10, B11 and **B12** for each calendar month during the semiannual reporting period.
- d. [Deleted]
- e. The total quantity of natural gas burned in Boilers B9, B10, B11 and **B12** for each calendar month during the semiannual reporting period.