

PERMIT AMENDMENT NO. 2077-175-0042-S-05-2
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. 2077-175-0042-S-05-0 issued on 10/24/2019 to:

Facility Name: Darling Ingredients Inc. – East Dublin
Facility Address: 508 Highway 80 East
East Dublin, Georgia 31027-3026 Laurens County
Mailing Address: P.O. Box 3026
East Dublin, GA 31021-3026
Facility AIRS Number: 04-13-175-00042

for the following: the operation of a rendering plant

is hereby amended as follows: Replace two venturi scrubbers CD-04A and CD-06 and two packed tower scrubbers CD-07B and CD-05 with one venturi scrubber CD-08A and two packed tower scrubbers CD-08B and CD-08C.

Reason for Amendment: Application No. 28914 dated June 15, 2023

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. 2077-175-0042-S-05-0 and compliance herewith is hereby ordered. Except as amended hereby, the above referenced Permit remains in full force and effect.



David B. Dove, Interim Director
Environmental Protection Division

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Modified Conditions

- 4.1 The Permittee shall operate the Venturi Scrubbers CD-07A and **CD-08A**, the Packed Tower Scrubbers **CD-08B and CD-08C**, and the Regenerative Thermal Oxidizer (RTO) CD-04B all times when any production process(es) served by the said control devices are in operation. If the RTO CD-04B should be down for routine maintenance, repair, etc., high intensity emissions may be emitted directly to atmosphere from the Packed Tower Scrubber **CD-08C**. During operation of the RTO CD-04B, the combustion temperature of the thermal oxidizer shall be maintained at or greater than the value established during the most recent Division-approved performance test.

[PSD Avoidance, 391-3-1-.02(2)(b), 391-3-1-.02(e) and 391-3-1-.03(2)(c)]

- 5.1 The Permittee shall install, calibrate, maintain, and operate monitoring devices for the measurement of the indicated parameters on the following equipment. Data shall be recorded at the frequency specified below. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.

[391-3-1-.02(6)(b)1]

- a. Differential pressure across each Scrubber CD-01C, CD-03, **CD-08B, and CD-08C**. Data shall be recorded every four hours during which the rendering process or blood process operates.
- b. Liquid recirculation rate for the process air Scrubbers CD03, **CD-08B, and CD-08C**. Data shall be recorded every four hours during which the rendering process or blood process operates.
- c. The pH of the scrubbing liquid used in each of the process air Scrubbers CD-01C, CD03, **CD-08B, and CD-08C**. Data shall be recorded at least every four hours during which the rendering process or blood process operates.
- d. The recirculation pump pressure of the scrubbant liquid, through the process air Scrubber CD-01C. Data shall be recorded at least every four hours during which the rendering process operates.
- e. The air temperature entering the process air Scrubbers **CD-08B and CD-08C**. Data shall be recorded at least every four hours during which the rendering process or blood process operates.
- f. A fuel consumption meter, or other method acceptable to the Division for measuring the amount of low sulfur diesel fuel oil fired in Boilers 0001 and 0002. Data shall be recorded for each fuel monthly.
- g. A fuel consumption meter, or other method acceptable to the Division for measuring the amount of processed fats (in gallons) fired in Boilers 0001 and 0002. Data shall be recorded for each fuel monthly.

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- h. A fuel consumption meter, or other method acceptable to the Division for measuring the amount of natural gas (in cubic feet) fired in Boilers 0001 and 0002 and RTO CD-04B. Data shall be recorded monthly.
- i. A fuel consumption meter, or other method acceptable to the Division for measuring the amount of biogas (in cubic feet) fired in the Flare or in Boilers 0001 or 0002. Data shall be recorded monthly.
- j. A fuel consumption meter, or other method acceptable to the Division for measuring the amount (in gallons) of low sulfur diesel fuel oil, processed fats, natural gas, and biogas (in cubic feet) fired in Boilers 0005, 0006, and 0007. Data shall be recorded for each fuel monthly.

7.13 For the purpose of reporting excess emissions, exceedances or excursions in the report required in Condition 7.12, the following excess emissions, exceedances, and excursions shall be reported:

[391-3-1-.02(6)(b)1]

- a. Excess emissions: (means for the purpose of this Condition and Condition 7.12, any condition that is detected by monitoring or record keeping which is specifically defined, or stated to be, excess emissions by an applicable requirement)
 - i. Any result of a Method 9 performance test required by Conditions 5.2, 5.3, or 6.2 that exceeds the opacity limit specified in Condition 2.6.
- b. Exceedances: (means for the purpose of this Condition and Condition 7.12, any condition that is detected by monitoring or record keeping that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) do not meet the applicable emission limitation or standard consistent with the averaging period specified for averaging the results of the monitoring)
 - i. Any twelve consecutive month period when SO₂ emissions from the entire facility, calculated in accordance with Conditions 7.8 and 7.11, exceed 99.5 tons.
 - ii. Any twelve consecutive month period when NO_x emissions from the entire facility, calculated in accordance with Conditions 7.9 and 7.11, exceed 99.5 tons.
 - iii. Any twelve consecutive month period when VOC emissions from the entire facility, calculated in accordance with Conditions 7.10 and 7.11, exceed 99.5 tons.
 - iv. Any onsite receipt of low sulfur diesel fuel oil delivery for which the Permittee did not obtain and maintain the verification specified in Condition 7.1.
- c. Excursions: (means for the purpose of this Condition and Condition 7.12, any departure from an indicator range or value established for monitoring consistent with any averaging period specified for averaging the results of the monitoring)

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- i. Any two consecutive measurements of the differential pressure across each of the Scrubbers CD-01C, **CD-08B, and CD-08C**, measured in accordance with Condition 5.1a, that are greater than 8 inches of water as established in accordance with Condition 7.14. Any two consecutive measurements of the differential pressure across Scrubber CD-03, measured in accordance with Condition 5.1a, that is greater than 4 inches of water as established in accordance with Condition 7.14.
 - ii. Any two consecutive measurements of the liquid recirculation rate for each of the Scrubbers **CD-08B and CD-08C**, measured in accordance with Condition 5.1b, that is less than 150 gallons per minute (GPM) as established in accordance with Condition 7.14. Any two consecutive measurements of the liquid recirculation rate for Scrubber CD-03, measured in accordance with Condition 5.1b, that is less than 450 GPM as established in accordance with Condition 7.14.
 - iii. Any two consecutive measurements of the recirculation pump pressure for process air Scrubber CD-01C, measured in accordance with Condition 5.1d, that are outside the range of 15 to 45 psi as established in accordance with Condition 7.14.
 - iv. Any occurrence of observed visible emissions that is greater than 5 percent opacity as specified in Condition 5.3 that is not corrected within 24 hours.
 - v. Any three-hour period during which the average temperature of the combustion chamber of the RTO CD-04B falls 50°F below the temperature specified in Condition 4.1.
- 7.14 The Permittee shall use the parametric ranges currently established or establish new ranges for each scrubber using performance tests and the scrubber manufacturer's specifications. For each new parametric monitoring range, the Permittee must develop, maintain, and submit to the Division for review, the records of acceptable ranges of the monitoring parameters, specified in Conditions 5.1a through e, for each of the Scrubbers CD-01C, CD-03, **CD-08B, and CD-08C**.
[391-3-1-.02(6)(b)1]

New Conditions

- 7.28 The Permittee shall submit to the Division a written notification of the initial startup date of the Venturi Scrubber **CD-08A** and the Packed Tower Scrubbers **CD-08B and CD-08C** within 15 days after such date.
[391-3-1-.03(2)(c)]
- 7.29 The Permittee shall submit to the Division a written notification of the removal of the existing Venturi Scrubbers CD-04A and CD-06, the Packed Tower Pre-Scrubber CD-07B, and the Packed Tower Scrubber CD-05 within 15 days after such date.
[391-3-1-.03(2)(c)]

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Table 1 – Facility Equipment List (Updated)
Darling Ingredients Inc. – East Dublin

Emission Units			Associated Control Devices	
Source Code	Description	Installation Date	Source Code	Description
0001	Cleaver Brooks Boiler (33.48 MMBtu)	1994	--	--
0002	Cleaver Brooks Boiler (33.48 MMBtu)	1997	--	--
0005	Hurst Boiler (50.219 MMBtu) Low NOx Boiler	2010	--	--
0006	Victory Energy Boiler (50.219 MMBtu) Low NOx Boiler	2016	--	--
0007	Victory Energy Boiler (62.773 MMBtu) Low NOx Boiler	2019	--	--
RP01	Meat & Poultry Rendering Process Line 1		CD-08A CD-08B CD-08C CD-04B CD-01C	Venturi Scrubber Packed Tower Scrubber Packed Tower Scrubber RTO Counter-Current Room Scrubber
RP02	Meat & Poultry Rendering Process Line 2		CD-08A CD-08B CD-08C CD-04B CD-01C	Venturi Scrubber Packed Tower Scrubber Packed Tower Scrubber RTO Counter-Current Room Scrubber
RP05	Meat & Poultry Rendering Process Line 5		CD-08A CD-08B CD-08C CD-04B CD-03	Venturi Scrubber Packed Tower Scrubber Packed Tower Scrubber RTO Cross Flow Scrubber
FP03	Feather Process Line 3		CD-03 CD-08B CD-08C CD-04B	Cross Flow Scrubber Packed Tower Scrubber Packed Tower Scrubber RTO
BP06	Blood Process Line 6	2019	CD-07A CD-08B CD-08C CD-04B CD-03	Venturi Scrubber Packed Tower Scrubber Packed Tower Scrubber RTO Cross Flow Scrubber
GEN1	Emergency Generator – Natural gas fired	2017	--	--
FL01	1,041 scfm Biogas Flare	2022	--	--

- (1) This "Equipment List" contains information regarding specific emissions points and was created as a reference for certain other Conditions in this Permit (or Permit Amendment). It is not intended to be a comprehensive list of all air pollution sources at this facility and may not include every minor or fugitive emission source. Future minor modifications or additions at this facility may be exempted from permitting by the Georgia Rules for Air Quality Control and may occur without causing this Table to be updated.