

ADEQ DRAFT MINOR SOURCE AIR PERMIT

Permit No. : 1904-AR-4

IS ISSUED TO:

Bunge North America, Inc.
2220 E. State Hwy 198 & Mississippi River
Osceola, AR 72370
Mississippi County
AFIN: 47-00119

THIS PERMIT IS THE ABOVE REFERENCED PERMITTEE'S AUTHORITY TO CONSTRUCT, MODIFY, OPERATE, AND/OR MAINTAIN THE EQUIPMENT AND/OR FACILITY IN THE MANNER AS SET FORTH IN THE DEPARTMENT'S MINOR SOURCE AIR PERMIT AND THE APPLICATION. THIS PERMIT IS ISSUED PURSUANT TO THE PROVISIONS OF THE ARKANSAS WATER AND AIR POLLUTION CONTROL ACT (ARK. CODE ANN. § 8-4-101 *ET SEQ.*) AND THE REGULATIONS PROMULGATED THEREUNDER, AND IS SUBJECT TO ALL LIMITS AND CONDITIONS CONTAINED HEREIN.

Signed:

Stuart Spencer
Associate Director, Office of Air Quality

Date

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List of Acronyms and Abbreviations

Ark. Code Ann.	Arkansas Code Annotated
AFIN	ADEQ Facility Identification Number
C.F.R.	Code of Federal Regulations
CO	Carbon Monoxide
HAP	Hazardous Air Pollutant
lb/hr	Pound Per Hour
No.	Number
NO _x	Nitrogen Oxide
PM	Particulate Matter
PM ₁₀	Particulate Matter Smaller Than Ten Microns
SO ₂	Sulfur Dioxide
Tpy	Tons Per Year
UTM	Universal Transverse Mercator
VOC	Volatile Organic Compound

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Section I: FACILITY INFORMATION

PERMITTEE:	Bunge North America, Inc.
AFIN:	47-00119
PERMIT NUMBER:	1904-AR-4
FACILITY ADDRESS:	2220 E. State Hwy 198 & Mississippi River Osceola, AR 72370
MAILING ADDRESS:	2220 E. State Hwy 198 Osceola, AR 72370
COUNTY:	Mississippi County
CONTACT NAME:	Aaron Taylor
CONTACT POSITION:	Facility Manager
TELEPHONE NUMBER:	(870) 563-2635
REVIEWING ENGINEER:	Alexander Sudibjo
UTM North South (Y):	Zone 16: 3949670.01 m
UTM East West (X):	Zone 16: 235114.11 m

Section II: INTRODUCTION

Summary of Permit Activity

Bunge's Osceola (Riverside) grain elevator (SIC 5153) is located at 2250 East Highway 198 and the Mississippi River in Osceola, Mississippi County, Arkansas 72370. With this de minimis modification, the facility is increasing the annual throughput limit at the facility to 10 million bushels of rice and 20 million bushels of non-rice grains, increasing the barge loadout rate to 60,000 bushels per hour, reducing the annual natural gas usage limit to 23.44 MMscf, removing currently used air pollution control equipment from the Truck Receiving Pits #1 and #2 (SN-01A and SN-01B), and replacing them with gravity-actuated, dust control, pit baffles. As a result of these changes, SN-01A, SN-01B, and SN-07 will be subject to NSPS DD. The facility's permitted annual emissions are increasing by 10.1 tpy PM and 0.01 tpy total HAPs. The facility's permitted annual emissions are decreasing by 2.4 tpy PM₁₀, 0.1 tpy CO, and 0.1 tpy NO_x.

Process Description

The facility receives stores, and ships rice and non-rice grains (i.e. soybeans, corn, wheat, milo, etc). All grain is received from trucks, about 90% from hopper trucks which have a lower rate of dust emissions.

The receiving operations include Truck Receiving Stations #1 and #2 (SN-01A and SN-01B), Truck Receiving Station #3 (SN-02), and all receiving stations use a two-sided enclosure. The receiving pits for SN-01A and SN-01B have gravity-actuated, dust control, pit baffles to reduce particulate matter generation from the receiving operation. Dust control on SN-01 is achieved with an aspiration system with a capture efficiency estimated at 90%. The captured dust is filtered by a baghouse that removes 99+% of the particulate matter that is captured. Roughly one-third of the grain is received at each of the truck receiving stations.

Four steel grain storage tanks (SN-03, 04, 05, and 13) are used for storage. Emissions from these tanks are controlled by a baghouse.

An estimated 4 million bushels of rice and 4 million bushels of non-rice grain will require drying in the grain dryer (SN-08). The grain dryer includes a 27.4 MMBtu/hr natural gas burner. There are three totally enclosed conveyors and one pneumatic conveying system for rice hulls.

The receiver bin for the rice hulls tank (SN-10) is equipped with a filter that has an emission rate less than 0.1 lb/hr. The loadout of hulls (SN-09) from the hull bin can be considered insignificant at less than 0.1 tpy.

The headhouse (SN-12) emission calculations include non-stack emissions from the grain handling system, including elevator legs, conveyors, and emissions from transfer points.

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Rice and non-rice grain is primarily shipped by barge (SN-07). Shipping by truck (SN-06 and SN-11) is estimated at 10% (worst case). There are no controls on these loading operations. The barges are loaded with an adjustable length spout which allows the end of the spout to be extended.

The facility plans to receive and loadout an estimated 10 million bushels of rice and 20 million bushels of non-rice grain per 12 consecutive months. An estimated 4 million bushels of rice and 4 million bushels of non-rice grains will be dried per 12 consecutive months.

Regulations

The following table contains the regulations applicable to this permit.

Regulations
Arkansas Air Pollution Control Code, Regulation 18, effective March 14, 2016
Regulations of the Arkansas Plan of Implementation for Air Pollution Control, Regulation 19, effective March 14, 2016
40 C.F.R. Part 60, Subpart DD - <i>Standards of Performance for Grain Elevators</i>

SN-06, SN-11, and SN-12 are not subject to Subpart DD because they were operating and have not been modified since August 3, 1978. SN-08 is not subject to the opacity requirement as long as it is operating with column plate perforation not exceeding 2.4 mm in diameter (Specific Condition #13).

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Total Allowable Emissions

The following table is a summary of emissions from the facility. This table, in itself, is not an enforceable condition of the permit.

TOTAL ALLOWABLE EMISSIONS		
Pollutant	Emission Rates	
	lb/hr	tpy
PM	153.7	40.0
PM ₁₀	42.2	12.8
PM _{2.5}	See Note*	
SO ₂	0.1	0.1
VOC	0.2	0.1
CO	2.3	1.0
NO _x	2.8	1.2
Total HAPs	0.01	0.01

*PM_{2.5} limits are source specific, if required. Not all sources have PM_{2.5} limits.

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Section III: PERMIT HISTORY

Permit #359- was issued to Bunge Corporation for their Osceola grain elevator on May 18th, 1976. Bunge proposed to install a system to collect fugitive emissions from the truck unloading pit with a cyclone. The proposed emission rate for particulates was less than one pound per hour.

Permit #359- was voided in 1976, and replaced with permit #1904-A.

Permit #1904-AR-1 was issued on August 4, 2000. This modification replaced the original cyclone used to control emissions from the truck unloading pit with a more efficient baghouse. The permanent storage capacity was listed as 3,190,000 bushels and the potential throughput at 17,250,000 bushels per year.

Permit #1904-AR-2 was issued on June 9, 2003. This modification replaced an existing Column Grain Dryer with a Column Rice Dryer that has a 9,350 bushels/hr capacity and is heated by a natural gas-fired burner rated at 27.4 MMBtu/hr. Three totally enclosed conveyors, a pneumatic conveying system and a receiver bin that recycles air, were also added. Additionally, the emission calculations were updated using the latest EPA AP-42 emission factors. PM emissions were reduced to 31.8 tpy. The changes to the other pollutants were insignificant.

Permit #1904-AR-3 was issued on June 6, 2012. The facility added a baghouse to the transfer and storage system. The proposed change reduced PM and PM₁₀ emissions from the bin vents (SN-03, 04, 05, and 13) to 3.1 and 0.8 tpy respectively. Additionally, the facility corrected the following information in the permit:

- Updated the source labeling to correspond to the labels used by the facility.
- Updated the emission rate table for SN-08 to account for SO₂ and VOC emission. SO₂ and VOC emission will increase to 0.1 tpy each.
- Addition of SN-11. Emission from SN-11 is included with SN-06.
- Addition of SN-13. Emission from SN-13 is included with SN-03, 04, and 05.

Section IV: EMISSION UNIT INFORMATION

Specific Conditions

- The permittee shall not exceed the emission rates set forth in the following table.
 [Reg.19.501 *et seq.* and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

SN	Description	Pollutant	lb/hr	tpy
01A & 01B	Truck Receiving Stations #1 & #2	PM ₁₀	7.8	1.8
02	Truck Receiving Station #3	PM ₁₀	1.3	1.2
03, 04, 05, & 13	Steel Grain Storage Tanks (4) Bin Vents and Material Transfer System	PM ₁₀	0.5	0.8
06 & 11	Truck Shipping (2)	PM ₁₀	8.7	1.2
07	Barge Shipping	PM ₁₀	7.2	1.5
08	Rice Column Dryer and 27.4 MMBtu/hr Natural Gas-fired Burner	PM ₁₀ SO ₂ VOC CO NO _x	15.5 0.1 0.2 2.3 2.8	4.8 0.1 0.1 1.0 1.2
09	Rice Hulls Bin Loadout	Insignificant Activities		
10	Rice Hulls Dryer Bin Vents/Filter	PM ₁₀	0.1	0.1
12	Headhouse (internal grain handling operations)	PM ₁₀	1.1	1.4

- The permittee shall not exceed the emission rates set forth in the following table.
 [Reg.18.801 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

SN	Description	Pollutant	lb/hr	tpy
01A & 01B	Truck Receiving Stations #1 & #2	PM	29.8	6.8
02	Truck Receiving Station #3	PM	3.5	1.7
03, 04, 05, & 13	Steel Grain Storage Tanks (4) Bin Vents and Material Transfer System	PM	2.0	3.1
06 & 11	Truck Shipping (2)	PM	25.8	3.6

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SN	Description	Pollutant	lb/hr	tpy
07	Barge Shipping	PM	28.8	6.0
08	Rice Column Dryer and 27.4 MMBtu/hr Natural Gas-fired Burner	PM Total HAPs	61.8 0.01	16.1 0.01
09	Rice Hulls Bin Loadout	Insignificant Activities		
10	Rice Hulls Dryer Bin Vents/Filter	PM	0.1	0.1
12	Headhouse (internal grain handling operations)	PM	1.9	2.6

3. Visible emissions may not exceed the limits specified in the following table of this permit as measured by EPA Reference Method 9. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

SN	Limit	Regulatory Citation
01A, 01B, & 02	5%	Reg.19.503 and NSPS §60.302(c)(1)
07	20%	Reg.19.503 and NSPS §60.302(c)(4)
03, 04, & 05	40%	Reg.19.503
06, 08, 10, 11, 12, & 13	20%	Reg.19.503

4. The permittee shall not cause or permit the emission of air contaminants, including odors or water vapor and including an air contaminant whose emission is not otherwise prohibited by Regulation 18, if the emission of the air contaminant constitutes air pollution within the meaning of Ark. Code Ann. § 8-4-303. [Reg.18.801 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
5. The permittee shall not conduct operations in such a manner as to unnecessarily cause air contaminants and other pollutants to become airborne. [Reg.18.901 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
6. The permittee shall not process more than 10 million bushels of rice grains and dried rice (225,000 tons at 45 lb/bushel) and 20 million bushels of non-rice grains (600,000 tons at 60 lb/bushel) at the facility per consecutive 12-month period. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

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7. The permittee shall maintain monthly records which demonstrate compliance with Specific Condition #6. The permittee will update the records by the fifteenth day of the month following the month to which the records pertain. The permittee will keep the records onsite, and make the records available to Department personnel upon request. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
8. The permittee shall use only pipeline natural gas as a fuel source. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
9. The permittee shall use no more than 23.44 million cubic feet of natural gas per consecutive 12-month period. Compliance with this condition shall be demonstrated by maintaining monthly records. The permittee will update the records by the fifteenth day of the month following the month to which the records pertain. The permittee will keep the records onsite, and make the records available to Department personnel upon request. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
10. The permittee shall not operate any sources for which particulate control is provided by Dust Control Filters DS-1, DS-2 and DS-3 when the respective dust control filters are not in normal operating condition. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

NSPS Requirements

11. The permittee shall conduct an initial test for the Truck Receiving Stations #1 through #3 (SN-01A, SN-01B, and SN-02) and Barge Shipping (SN-07) to determine compliance with the opacity limits specified in Specific Condition #3. EPA Reference Method 9 should be used for opacity and Method 5 for particulate matter emissions, and the procedures in §60.11 shall also be used. SN-02 is in compliance with this requirement based on an inspection report dated October 3, 2000. [Reg.19.304, 40 C.F.R. §§ 60.303 and 60.8 Appendix A and in accordance with General Conditions #7 and #8]
12. The permittee shall not cause to be discharged into the atmosphere any fugitive emissions from Truck Receiving Stations #1 through #3 (SN-01A, SN-01B, and SN-02) which exhibits greater than 5% opacity. [Reg.19.304 and 40 C.F.R. § 60.302(c)(1)]
13. The permittee shall not have the Grain Dryer (SN-08) with column plate perforations that will not exceed 2.4 mm in diameter. [Reg.19.304 and 40 C.F.R. § 60.302(b)(1)]
14. The conveyors associated with SN-08 shall be totally enclosed without visible emissions to the ambient air. [Reg.19.304 and 40 C.F.R. § 60.302(b)(2)]

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15. The permittee shall not cause to be discharged into the atmosphere any fugitive emissions from the Barge Shipping (SN-07) which exhibits greater than 20% opacity. [Reg.19.304 and 40 C.F.R. § 60.302(c)(4)]
16. The permittee shall operate SN-07 as follows: [Reg.19.304 and 40 C.F.R. § 60.302(d)]
 - (a) The unloading leg shall be enclosed from the top (including the receiving hopper) to the center line of the bottom pulley and ventilation to a control device shall be maintained on both sides of the leg and the grain receiving hopper.
 - (b) The total rate of air ventilated shall be at least 32.1 actual cubic meters per cubic meter of grain handling capacity (ca. 40 ft³/bu).
 - (c) Rather than meet the requirements of paragraphs (a) and (b) above, the permittee may use other methods of emission control if it is demonstrated to the Department's satisfaction that they would reduce emissions of particulate matter to the same level or less.

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Section V: INSIGNIFICANT ACTIVITIES

The Department deems the following types of activities or emissions as insignificant on the basis of size, emission rate, production rate, or activity in accordance with Group A of the Insignificant Activities list found in Regulation 18 and Regulation 19 Appendix A. Group B insignificant activities may be listed but are not required to be listed in permits. Insignificant activity emission determinations rely upon the information submitted by the permittee in an application dated March 9, 2012. [Reg.19.408 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

Description	Category
SN-09: Rice Hulls Bin Loadout	A-13

Section VI: GENERAL CONDITIONS

1. Any terms or conditions included in this permit that specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 *et seq.*) as the sole origin of and authority for the terms or conditions are not required under the Clean Air Act or any of its applicable requirements, and are not federally enforceable under the Clean Air Act. Arkansas Pollution Control & Ecology Commission Regulation 18 was adopted pursuant to the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 *et seq.*). Any terms or conditions included in this permit that specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 *et seq.*) as the origin of and authority for the terms or conditions are enforceable under this Arkansas statute.
2. This permit does not relieve the owner or operator of the equipment and/or the facility from compliance with all applicable provisions of the Arkansas Water and Air Pollution Control Act and the regulations promulgated under the Act. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
3. The permittee shall notify the Department in writing within thirty (30) days after each of the following events: commencement of construction, completion of construction, first operation of equipment and/or facility, and first attainment of the equipment and/or facility target production rate. [Reg.19.704 and/or Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
4. Construction or modification must commence within eighteen (18) months from the date of permit issuance. [Reg.19.410(B) and/or Reg.18.309(B) and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
5. The permittee must keep records for five years to enable the Department to determine compliance with the terms of this permit such as hours of operation, throughput, upset conditions, and continuous monitoring data. The Department may use the records, at the discretion of the Department, to determine compliance with the conditions of the permit. [Reg.19.705 and/or Reg.18.1004 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
6. A responsible official must certify any reports required by any condition contained in this permit and submit any reports to the Department at the address below. [Reg.19.705 and/or Reg.18.1004 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

Arkansas Department of Environmental Quality
Office of Air Quality
ATTN: Compliance Inspector Supervisor

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5301 Northshore Drive
North Little Rock, AR 72118-5317

7. The permittee shall test any equipment scheduled for testing, unless stated in the Specific Conditions of this permit or by any federally regulated requirements, within the following time frames: (1) newly constructed or modified equipment within sixty (60) days of achieving the maximum production rate, but no later than 180 days after initial start up of the permitted source or (2) existing equipment already operating according to the time frames set forth by the Department. The permittee must notify the Department of the scheduled date of compliance testing at least fifteen (15) business days in advance of such test. The permittee must submit compliance test results to the Department within sixty (60) calendar days after the completion of testing. [Reg.19.702 and/or Reg.18.1002 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
8. The permittee shall provide: [Reg.19.702 and/or Reg.18.1002 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
 - a. Sampling ports adequate for applicable test methods;
 - b. Safe sampling platforms;
 - c. Safe access to sampling platforms; and
 - d. Utilities for sampling and testing equipment
9. The permittee shall operate equipment, control apparatus and emission monitoring equipment within their design limitations. The permittee shall maintain in good condition at all times equipment, control apparatus and emission monitoring equipment. [Reg.19.303 and/or Reg.18.1104 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
10. If the permittee exceeds an emission limit established by this permit, the permittee will be deemed in violation of said permit and will be subject to enforcement action. The Department may forego enforcement action for emissions exceeding any limits established by this permit provided the following requirements are met: [Reg.19.601 and/or Reg.18.1101 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
 - a. The permittee demonstrates to the satisfaction of the Department that the emissions resulted from an equipment malfunction or upset and are not the result of negligence or improper maintenance, and the permittee took all reasonable measures to immediately minimize or eliminate the excess emissions.
 - b. The permittee reports the occurrence or upset or breakdown of equipment (by telephone, facsimile, or overnight delivery) to the Department by the end of the next business day after the occurrence or the discovery of the occurrence.
 - c. The permittee must submit to the Department, within five business days after the occurrence or the discovery of the occurrence, a full, written report of such occurrence, including a statement of all known causes and of the scheduling and

nature of the actions to be taken to minimize or eliminate future occurrences, including, but not limited to, action to reduce the frequency of occurrence of such conditions, to minimize the amount by which said limits are exceeded, and to reduce the length of time for which said limits are exceeded. If the information is included in the initial report, the information need not be submitted again.

11. The permittee shall allow representatives of the Department upon the presentation of credentials: [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
 - a. To enter upon the permittee's premises, or other premises under the control of the permittee, where an air pollutant source is located or in which any records are required to be kept under the terms and conditions of this permit;
 - b. To have access to and copy any records required to be kept under the terms and conditions of this permit, or the Act;
 - c. To inspect any monitoring equipment or monitoring method required in this permit;
 - d. To sample any emission of pollutants; and
 - e. To perform an operation and maintenance inspection of the permitted source.
12. The Department issued this permit in reliance upon the statements and presentations made in the permit application. The Department has no responsibility for the adequacy or proper functioning of the equipment or control apparatus. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
13. The Department may revoke or modify this permit when, in the judgment of the Department, such revocation or modification is necessary to comply with the applicable provisions of the Arkansas Water and Air Pollution Control Act and the regulations promulgated the Arkansas Water and Air Pollution Control Act. [Reg.19.410(A) and/or Reg.18.309(A) and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
14. This permit may be transferred. An applicant for a transfer must submit a written request for transfer of the permit on a form provided by the Department and submit the disclosure statement required by Arkansas Code Annotated §8-1-106 at least thirty (30) days in advance of the proposed transfer date. The permit will be automatically transferred to the new permittee unless the Department denies the request to transfer within thirty (30) days of the receipt of the disclosure statement. The Department may deny a transfer on the basis of the information revealed in the disclosure statement or other investigation or, deliberate falsification or omission of relevant information. [Reg.19.407(B) and/or Reg.18.307(B) and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

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15. This permit shall be available for inspection on the premises where the control apparatus is located. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
 16. This permit authorizes only those pollutant emitting activities addressed herein. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
 17. This permit supersedes and voids all previously issued air permits for this facility. [Reg. 18 and/or Reg. 19 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
 18. The permittee must pay all permit fees in accordance with the procedures established in Regulation 9. [Ark. Code Ann. § 8-1-105(c)]
 19. The permittee may request in writing and at least 15 days in advance of the deadline, an extension to any testing, compliance or other dates in this permit. No such extensions are authorized until the permittee receives written Department approval. The Department may grant such a request, at its discretion in the following circumstances:
 - a. Such an extension does not violate a federal requirement;
 - b. The permittee demonstrates the need for the extension; and
 - c. The permittee documents that all reasonable measures have been taken to meet the current deadline and documents reasons it cannot be met.
- [Reg.18.314(A) and/or Reg.19.416(A), Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]
20. The permittee may request in writing and at least 30 days in advance, temporary emissions and/or testing that would otherwise exceed an emission rate, throughput requirement, or other limit in this permit. No such activities are authorized until the permittee receives written Department approval. Any such emissions shall be included in the facility's total emissions and reported as such. The Department may grant such a request, at its discretion under the following conditions:
 - a. Such a request does not violate a federal requirement;
 - b. Such a request is temporary in nature;
 - c. Such a request will not result in a condition of air pollution;
 - d. The request contains such information necessary for the Department to evaluate the request, including but not limited to, quantification of such emissions and the date/time such emission will occur;
 - e. Such a request will result in increased emissions less than five tons of any individual criteria pollutant, one ton of any single HAP and 2.5 tons of total HAPs; and
 - f. The permittee maintains records of the dates and results of such temporary emissions/testing.

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[Reg.18.314(B) and/or Reg.19.416(B), Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]

21. The permittee may request in writing and at least 30 days in advance, an alternative to the specified monitoring in this permit. No such alternatives are authorized until the permittee receives written Department approval. The Department may grant such a request, at its discretion under the following conditions:
- a. The request does not violate a federal requirement;
 - b. The request provides an equivalent or greater degree of actual monitoring to the current requirements; and
 - c. Any such request, if approved, is incorporated in the next permit modification application by the permittee.

[Reg.18.314(C) and/or Reg.19.416(C), Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]

Appendix A

40 C.F.R. Part 60, Subpart DD—*Standards of Performance for Grain Elevators*

Subpart DD—Standards of Performance for Grain Elevators

Contents

[§60.300 Applicability and designation of affected facility.](#)

[§60.301 Definitions.](#)

[§60.302 Standard for particulate matter.](#)

[§60.303 Test methods and procedures.](#)

[§60.304 Modifications.](#)

SOURCE: 43 FR 34347, Aug. 3, 1978, unless otherwise noted.

§60.300 Applicability and designation of affected facility.

(a) The provisions of this subpart apply to each affected facility at any grain terminal elevator or any grain storage elevator, except as provided under §60.304(b). The affected facilities are each truck unloading station, truck loading station, barge and ship unloading station, barge and ship loading station, railcar loading station, railcar unloading station, grain dryer, and all grain handling operations.

(b) Any facility under paragraph (a) of this section which commences construction, modification, or reconstruction after August 3, 1978, is subject to the requirements of this part.

[43 FR 34347, Aug. 3, 1978, as amended at 52 FR 42434, Nov. 5, 1988]

§60.301 Definitions.

As used in this subpart, all terms not defined herein shall have the meaning given them in the Act and in subpart A of this part.

(a) *Grain* means corn, wheat, sorghum, rice, rye, oats, barley, and soybeans.

(b) *Grain elevator* means any plant or installation at which grain is unloaded, handled, cleaned, dried, stored, or loaded.

(c) *Grain terminal elevator* means any grain elevator which has a permanent storage capacity of more than 88,100 m³ (ca. 2.5 million U.S. bushels), except those located at animal food manufacturers, pet food manufacturers, cereal manufacturers, breweries, and livestock feedlots.

(d) *Permanent storage capacity* means grain storage capacity which is inside a building, bin, or silo.

(e) *Railcar* means railroad hopper car or boxcar.

(f) *Grain storage elevator* means any grain elevator located at any wheat flour mill, wet corn mill, dry corn mill (human consumption), rice mill, or soybean oil extraction plant which has a permanent grain storage capacity of 35,200 m³ (ca. 1 million bushels).

- (g) *Process emission* means the particulate matter which is collected by a capture system.
- (h) *Fugitive emission* means the particulate matter which is not collected by a capture system and is released directly into the atmosphere from an affected facility at a grain elevator.
- (i) *Capture system* means the equipment such as sheds, hoods, ducts, fans, dampers, etc. used to collect particulate matter generated by an affected facility at a grain elevator.
- (j) *Grain unloading station* means that portion of a grain elevator where the grain is transferred from a truck, railcar, barge, or ship to a receiving hopper.
- (k) *Grain loading station* means that portion of a grain elevator where the grain is transferred from the elevator to a truck, railcar, barge, or ship.
- (l) *Grain handling operations* include bucket elevators or legs (excluding legs used to unload barges or ships), scale hoppers and surge bins (garners), turn heads, scalpers, cleaners, trippers, and the headhouse and other such structures.
- (m) *Column dryer* means any equipment used to reduce the moisture content of grain in which the grain flows from the top to the bottom in one or more continuous packed columns between two perforated metal sheets.
- (n) *Rack dryer* means any equipment used to reduce the moisture content of grain in which the grain flows from the top to the bottom in a cascading flow around rows of baffles (racks).
- (o) *Unloading leg* means a device which includes a bucket-type elevator which is used to remove grain from a barge or ship.

[43 FR 34347, Aug. 3, 1978, as amended at 65 FR 61759, Oct. 17, 2000]

§60.302 Standard for particulate matter.

- (a) On and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any gases which exhibit greater than 0 percent opacity from any:
- (1) Column dryer with column plate perforation exceeding 2.4 mm diameter (ca. 0.094 inch).
 - (2) Rack dryer in which exhaust gases pass through a screen filter coarser than 50 mesh.
- (b) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility except a grain dryer any process emission which:
- (1) Contains particulate matter in excess of 0.023 g/dscm (ca. 0.01 gr/dscf).
 - (2) Exhibits greater than 0 percent opacity.
- (c) On and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any fugitive emission from:

(1) Any individual truck unloading station, railcar unloading station, or railcar loading station, which exhibits greater than 5 percent opacity.

(2) Any grain handling operation which exhibits greater than 0 percent opacity.

(3) Any truck loading station which exhibits greater than 10 percent opacity.

(4) Any barge or ship loading station which exhibits greater than 20 percent opacity.

(d) The owner or operator of any barge or ship unloading station shall operate as follows:

(1) The unloading leg shall be enclosed from the top (including the receiving hopper) to the center line of the bottom pulley and ventilation to a control device shall be maintained on both sides of the leg and the grain receiving hopper.

(2) The total rate of air ventilated shall be at least 32.1 actual cubic meters per cubic meter of grain handling capacity (ca. 40 ft³/bu).

(3) Rather than meet the requirements of paragraphs (d)(1) and (2) of this section the owner or operator may use other methods of emission control if it is demonstrated to the Administrator's satisfaction that they would reduce emissions of particulate matter to the same level or less.

§60.303 Test methods and procedures.

(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b). Acceptable alternative methods and procedures are given in paragraph (c) of this section.

(b) The owner or operator shall determine compliance with the particulate matter standards in §60.302 as follows:

(1) Method 5 shall be used to determine the particulate matter concentration and the volumetric flow rate of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 1.70 dscm (60 dscf). The probe and filter holder shall be operated without heaters.

(2) Method 2 shall be used to determine the ventilation volumetric flow rate.

(3) Method 9 and the procedures in §60.11 shall be used to determine opacity.

(c) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

(1) For Method 5, Method 17 may be used.

[54 FR 6674, Feb. 14, 1989]

§60.304 Modifications.

(a) The factor 6.5 shall be used in place of “annual asset guidelines repair allowance percentage,” to determine whether a capital expenditure as defined by §60.2 has been made to an existing facility.

(b) The following physical changes or changes in the method of operation shall not by themselves be considered a modification of any existing facility:

- (1) The addition of gravity loadout spouts to existing grain storage or grain transfer bins.
- (2) The installation of automatic grain weighing scales.
- (3) Replacement of motor and drive units driving existing grain handling equipment.
- (4) The installation of permanent storage capacity with no increase in hourly grain handling capacity.